

300 Richards Blvd., 3rd Floor Sacramento, CA 95811

Help Line: 916-264-5011 CityofSacramento.org/dsd

MITIGATED NEGATIVE DECLARATION

The City of Sacramento, California, a municipal corporation, does hereby prepare, declare, and publish this Mitigated Negative Declaration for the following described project:

Sutter Greens 2.0 Project (P21-013): The 9.06-acre project site is located southeast of the intersection of West El Camino Avenue and Natomas Park Drive in the South Natomas Community Plan area in the City of Sacramento, California (Assessor's Parcel Number 274-0410-016). The project site is located within the South Natomas Community Plan and the Creekside Oaks Planned Unit Development (PUD), and is currently occupied by the Natomas Sports Club. The entire project site is developed with a parking lot, tennis courts, swimming pool, outdoor covered areas, and a building/fitness center. The General Plan designates the project site Suburban Neighborhood High Density, and the project site is zoned R-2B-PUD.

The proposed project would include the demolition of the existing Natomas Sports Club and redevelopment of the project site with a multi-family development consisting of 190 units distributed throughout 10 three-story buildings. In addition to the multi-family development, the proposed project would include amenities such as a playground, pool, clubhouse, and two dog parks. Up to 353 parking spaces would be provided on-site, consisting of approximately 253 surface parking spaces and 96 covered spaces. The proposed project would require Site Design Review approval and an amendment to the Creekside Oaks PUD Guidelines.

The Lead Agency is the City of Sacramento. The City of Sacramento, Community Development Department, has reviewed the proposed project and, on the basis of the whole record before it, has determined that there is no substantial evidence that the project, with mitigation measures as identified in the attached Initial Study, will have a significant effect on the environment. This Mitigated Negative Declaration reflects the lead agency's independent judgment and analysis. An Environmental Impact Report is not required. This Mitigated Negative Declaration has been prepared pursuant to the California Environmental Quality Act (Public Resources Code [PRC] Sections 21000 et seq.), CEQA Guidelines (Title 14, Sections 15000 et seq. of the California Code of Regulations), the Sacramento Local Environmental Regulations (Resolution 91-892), and the Sacramento City Code.

Due to concerns over COVID-19, the City of Sacramento, Community Development Department's Public Counter, at 300 Richards Boulevard, 3rd Floor, Sacramento, CA 95811 is closed until further notice. A copy of this document and all supportive documentation may be reviewed through the City's website at https://www.cityofsacramento.org/Community-Development/Planning/Environmental/Impact-Reports.

Environmental Services Manager, City of Sacramento, California, a municipal corporation

August 16, 2021



SUTTER GREENS 2.0 PROJECT (P21-013)

INITIAL STUDY/ MITIGATED NEGATIVE DECLARATION FOR ANTICIPATED SUBSEQUENT PROJECTS UNDER THE 2035 GENERAL PLAN MASTER EIR

This Initial Study has been prepared by the City of Sacramento, Community Development Department, 300 Richards Boulevard, Third Floor, Sacramento, CA 95811, pursuant to the California Environmental Quality Act (PRC Sections 21000 *et seq.*), CEQA Guidelines (Title 14, Section 15000 *et seq.* of the California Code of Regulations) and the Sacramento Local Environmental Regulations (Resolution 91-892) adopted by the City of Sacramento.

ORGANIZATION OF THE INITIAL STUDY

This Initial Study is organized into the following sections:

SECTION I - BACKGROUND: Provides summary background information about the project name, location, sponsor, and the date this Initial Study was completed.

SECTION II - PROJECT DESCRIPTION: Includes a detailed description of the proposed project.

SECTION III - ENVIRONMENTAL CHECKLIST AND DISCUSSION: Reviews proposed project and states whether the project would have additional significant environmental effects (project-specific effects) that were not evaluated in the Master EIR for the 2035 General Plan.

SECTION IV - ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED: Identifies which environmental factors were determined to have additional significant environmental effects.

SECTION V - DETERMINATION: States whether environmental effects associated with development of the proposed project are significant, and what, if any, added environmental documentation may be required.

REFERENCES CITED: Identifies source materials that have been consulted in the preparation of the Initial Study.

APPENDICES: Appends technical information that was referenced as attached in the preparation of the IS/MND.

SECTION I - BACKGROUND

Project Name and File Number:	Sutter Greens 2.0 Project (P21-013)
Project Location:	2450 Natomas Park Drive Sacramento, CA 95833 Assessor's Parcel Number (APN) 274-0410-016
Project Applicant:	Demmon Partners 601 University Avenue, Suite 110 Sacramento, CA 95825
Project Planner:	Jose Quintanilla, Associate Planner (916) 808-5879 jquintanilla@cityofsacramento.org
Environmental Planner:	Ron Bess , Associate Planner (916) 808-8272 <u>Rbess@cityofsacramento.org</u>
Date Initial Study Completed:	August 2021

This Initial Study was prepared in accordance with the California Environmental Quality Act (CEQA) (PRC Sections 1500 *et seq.*). The Lead Agency is the City of Sacramento.

The City of Sacramento, Community Development Department, has reviewed the proposed project and, on the basis of the whole record before it, has determined that the proposed project is an anticipated subsequent project identified and described in the 2035 General Plan Master EIR and is consistent with the land use designation and the permissible densities and intensities of use for the project site as set forth in the 2035 General Plan. See CEQA Guidelines Section 15176 (b) and (d).

The City has prepared the attached Initial Study to review the discussions of cumulative impacts, growth inducing impacts, and irreversible significant effects in the 2035 General Plan Master EIR to determine their adequacy for the project (see CEQA Guidelines Section 15178(b),(c)) and identify any potential new or additional project-specific significant environmental effects that were not analyzed in the Master EIR and any mitigation measures or alternatives that may avoid or mitigate the identified effects to a level of insignificance, if any.

As part of the Master EIR process, the City is required to incorporate all feasible mitigation measures or feasible alternatives appropriate to the project as set forth in the Master EIR (CEQA Guidelines Section 15177(d)) Policies included in the 2035 General Plan that reduce significant impacts identified in the Master EIR are identified and discussed. See also the Master EIR for the 2035 General Plan. The mitigation monitoring plan for the 2035 General Plan, which provides references to applicable general plan policies that reduce the environmental effects of development that may occur consistent with the general plan, is included in the adopting resolution for the Master EIR. See City Council Resolution No. 2015-0060, beginning on page 60. The resolution is available at:

http://portal.cityofsacramento.org/Community-Development/Planning/Environmental/Impact-Reports.aspx.

This analysis incorporates by reference the general discussion portions of the 2035 General Plan Master EIR. (CEQA Guidelines Section 15150(a)). The Master EIR is available for public review at the City of Sacramento's web site at:

http://www.cityofsacramento.org/Community-Development/Planning/Environmental/Impact-Reports.aspx

The City is soliciting views of interested persons and agencies on the content of the environmental information presented in this document. Written comments should be sent at the earliest possible date, but no later than the 20-day review period ending September 7, 2021.

Please send written responses to:

Ron Bess, Associate Planner Community Development Department City of Sacramento 300 Richards Boulevard, 3rd Floor Sacramento, CA 95811 Direct Line: (916) 808-8272 <u>Rbess@cityofsacramento.org</u>

SECTION II - PROJECT DESCRIPTION

INTRODUCTION

The Project Description section of the Initial Study provides a description of the Sutter Greens 2.0 Project (proposed project) location, existing conditions, surrounding land uses, and project components.

PROJECT LOCATION, EXISTING CONDITIONS, AND SURROUNDING LAND USES

The 9.06-acre project site is located southeast of the intersection of West El Camino Avenue and Natomas Park Drive in the South Natomas Community Plan area in the City of Sacramento, California (APN 274-0410-016) (see Figure 1). The site is bounded by West El Camino to the north and Natomas Park Drive to the south. Regional access is provided by Interstate 5 (I-5) to the east, and Interstate 80 (I-80) to the south. In addition, the project site is approximately 0.7-mile north of the American River.

The project site is located within the South Natomas Community Plan area and the Creekside Oaks Planned Unit Development (PUD) and is currently occupied by the Natomas Sports Club. The entire project site is developed with a parking lot, tennis courts, swimming pool, outdoor covered areas, and a building/fitness center. The General Plan designates the project site Suburban Neighborhood High Density, and the project site is zoned R-2B-PUD.

Surrounding land uses include single-family residences to the north, multi-family housing to the east, a business park and daycare to the west, and multi-family housing to the south. The Bannon Creek Preserve Trail traverses the western portion of the project site, West El Camino Avenue extends along the northern site boundary, and Natomas Park Drive extends along the southern site boundary (see Figure 2).

PROJECT DESCRIPTION

The proposed project would include the demolition of the existing Natomas Sports Club and redevelopment of the project site with a multi-family development consisting of 190 units distributed throughout 10 threestory buildings. Demolition would include removal of the on-site buildings and associated outdoor facilities (i.e., tennis courts, parking lots, swimming pool). The proposed project would require Site Plan and Design Review approval and an amendment to the Creekside Oaks PUD Guidelines and Schematic Plan to allow multi-family residential uses within the Health Building Zone.

A discussion of the project's components, including the residential units, construction phasing, site access and circulation, landscaping, utility infrastructure, and project entitlements, is included below.

Residential Units

The proposed multi-family development would consist of 164,712 net square feet (sf) in total. Of the 190 units, 82 would be one bed/one bath, 102 would be two bed/two bath, and 6 would be three bed/two bath. The proposed density of the project would be 21.0 dwelling units per acre. In addition to the multi-family development, the proposed project would include amenities such as a playground, pool, clubhouse, and two dog parks (see Figure 3). The clubhouse would include a fitness center, bicycle storage room, lounge, dining area, and leasing office. Additionally, the project would include a 16-foot trail easement traversing the western portion of the project site to retain and improve the existing Bannon Creek Preserve Trail.

Construction Phasing

Construction of the proposed project is anticipated to begin in May 2022 and continue over a span of approximately two years. Construction of the site would require demolition of 34,000 sf of building material over a three-month period. In addition, eight acres of the project site would be graded over an approximately two-month time period.





Figure 2 Project Vicinity Map

RIVER TERRACE APARTMENTS SEASTINE-LEVING FAULS 100 ų 旧角 EL CAMINO AVE. лÌЕ | (철말) ViaTomas Part De IBHOUSE s' é ar 1 5 No Contraction 744 TUSE STEE HNIHERC-HEIDE VE HDIRERC (B) ETTRESS TORENAL SUTTER 100 m GREEN APARTMENTS CARTORI, YO RECYCLING BIRS TRASH COVEACTOR 6 II TUDE STEEL FENCE-PARKING LOT PIANTER QUILTY φ. 6 BANNON CREEK BIERST PRESERVE OFFICE 40 120 LPAS DEMMON OVERALL SITE PLAN . . PROJECT NO. 1194-0006 June 30, 2021

Figure 3 Site Plan

Site Access, Parking, and Circulation

Currently, access to the site is provided by two driveways from Natomas Park Drive. Both existing driveways would be removed as part of the project, and access to the project site would be provided by way of a new gated entrance/exit to/from Natomas Park Drive (see Figure 4). Additionally, a new Emergency Vehicle Access (EVA) driveway would be provided onto West El Camino Avenue. Internal circulation would be provided by a 26-foot-wide roadway. In addition, the project would retain and would provide pedestrian and bicycle access to the Bannon Creek Preserve Trail, which extends through the western portion of the project site. The proposed development would have access to the trail from two proposed access points: one access point would be located within the dog park north of the trail towards West El Camino, and the second access point would be located south of trail towards Natomas Park Drive.

Up to 353 parking spaces would be provided on-site, consisting of approximately 253 surface parking spaces and 96 covered spaces. In addition, 98 long-term and 20 short-term bicycle spaces would be provided.

Landscaping

As part of the proposed project, 54 on-site trees would be removed to facilitate the redevelopment of the project site. However, the proposed landscaping plan, included as Figure 5, would provide various replacement trees and other vegetation throughout the site.

Utility Infrastructure

The following discussion relates to the water, wastewater, and stormwater drainage infrastructure components of the proposed project (see Figure 6).

Water

Municipal water for the existing use on-site is currently supplied by the City of Sacramento Department of Utilities. The City uses surface water from the American and Sacramento rivers as well as groundwater north of the American River to meet the City's demands. The City would continue to supply water to the proposed project. The proposed project includes an existing 10-foot water transmission easement along the southwestern property line of the project site. The project would connect to the existing water main located in Natomas Park Drive through a network of 12–48-inch water lines. The project will prepare a project-specific water study to show that the existing flows in the area can supply the project's domestic and fire flows demand for review and approval by the Department of Utilities.

Wastewater

Wastewater treatment for the existing use on-site is currently provided by the Sacramento Area Sewer District (SASD) and the Sacramento Regional County Sanitation District (SRCSD). Wastewater generated in the project area is collected in the SASD system through a series of sewer pipes and pump stations. Once collected in the SASD system, wastewater flows into the SRCSD interceptor system, where the wastewater is conveyed to the Sacramento Regional Wastewater Treatment Plant (SRWWTP). The SRWWTP is owned and operated by the SRCSD and provides sewage treatment for the entire City. SASD requires each building with a wastewater source on each lot to have a separate connection to SASD's sewer system. The project would connect to the existing sanitary sewer main located in Natomas Park Drive through a network of eight-inch sewer lines.

Stormwater Drainage

The City's Department of Utilities provides storm drainage service throughout the City by using drain inlets, pumps, and canals. The City provides stormwater drainage with either the City's Combined Sewer System (CSS) or into individual drainage sumps located throughout the City. Stormwater collected by the CCS is transported to the SRCSD's SRWWTP, where runoff is then treated prior to discharge into the Sacramento River. Existing stormwater drainage infrastructure would continue to serve the proposed project. The project

would connect to the existing storm drain located in Natomas Park Drive and West El Camino through a new network of stormwater lines. The project will prepare a project specified drainage study meeting the criteria in the current Department of Utilities Onsite Design Manual for review and approval by the DOU.

Project Entitlements

The proposed project would require approval of the following entitlements:

- Approval of the IS/MND and Mitigation and Monitoring Plan;
- Amendment to the Creekside Oaks PUD Guidelines and Schematic Plan; and
- Site Plan and Design Review.



Figure 4 Driveway Improvement

Figure 5 Landscape Plan



Figure 6 Utility Plan



SECTION III – ENVIRONMENTAL CHECKLIST AND DISCUSSION

LAND USE, POPULATION AND HOUSING, AGRICULTURAL RESOURCES

Introduction

The California Environmental Quality Act (CEQA) requires the Lead Agency to examine the effects of a project on the physical conditions that exist within the area that would be affected by the project. CEQA also requires a discussion of any inconsistency between the proposed project and applicable general plans and regional plans.

An inconsistency between the proposed project and an adopted plan for land use development in a community would not constitute a physical change in the environment. When a project diverges from an adopted plan, however, it may affect planning in the community regarding infrastructure and services, and the new demands generated by the project may result in later physical changes in response to the project.

In the same manner, the fact that a project brings new people or demand for housing to a community does not, by itself, change the physical conditions. An increase in population may, however, generate changes in retail demand or demand for governmental services, and the demand for housing may generate new activity in residential development. Physical environmental impacts that could result from implementing the proposed project are discussed in the appropriate technical sections.

This section of the initial study identifies the applicable land use designations, plans and policies, and permissible densities and intensities of use, and discusses any inconsistencies between these plans and the proposed project. This section also discusses agricultural resources and wildfire, and the effect of the project on these resources.

Discussion

Land Use

The project site is designated Suburban Neighborhood High Density in the 2035 General Plan, and the project site is zoned R-2B-PUD. Suburban Neighborhood designations provides for single-use multi-family housing and predominantly residential mixed-use development in areas served by major transportation routes and facilities, and near major shopping facilities.

The project site is located in an urbanized portion of the community. Surrounding land uses include singlefamily residences to the north, multi-family housing to the east, a business park and daycare to the west, and multi-family housing to the south. The current land use development standards allow for a density range of 15 to 30.0 units per net acre, and the R-2B zone allows a density up to 21.0 units per acre. The proposed project includes a density of 20.97 units per acre, which is within the allowable range defined by the land use designation within the General Plan and the R-2B zoning district. As a result, the proposed project would be considered consistent with the General Plan land use and zoning designations. Therefore, the proposed project would be subject to goals and policies pursuant to land use designation within the General Plan.

The project would include an amendment to the Creekside Oaks PUD Guidelines and Schematic Plan to allow multi-family residential uses within the Health Building Zone. However, the proposed project would remain consistent with the overall PUD Schematic Plan, and would not conflict with any existing surrounding land uses.

Development of the site would alter the existing on-site landscape from a sports club to multi-family residences. However, the redevelopment would be consistent with surrounding land uses and land use designated for urban development in the 2035 General Plan and the Planning and Development Code.

Given that portions of the site are currently developed, and the site does not contain any existing residential development, implementation of the project would not physically divide an established community.

Based on the above, the proposed project would not result in impacts related to land use.

Population and Housing

The proposed project would include the construction of a 190-unit multi-family residential development distributed throughout 10 buildings in the South Natomas Community Plan. Consequently, development would add to the population in the City. However, as previously mentioned, the proposed project is consistent with the General Plan land use and zoning designations. As such, impacts related to population and housing associated with buildout of the project site would have been analyzed as part of the Master EIR analysis. As a result, the project would not be considered to induce population beyond what was previously analyzed in the Master EIR. Implementation of the proposed project would not displace any existing housing units or people. Construction or replacement of housing elsewhere would not be required for the project.

Agricultural Resources

The Master EIR discussed the potential impact of development under the 2035 General Plan on agricultural resources (see Master EIR, Chapter 4.1). In addition to evaluating the effect of the General Plan on sites within the City, the Master EIR noted that to the extent the Sacramento General Plan accommodates future growth within the City limits, the conversion of farmland outside the City limits is minimized (Master EIR, page 4.1-3). The Master EIR concluded that the impact of the General Plan on agricultural resources within the City was less than significant.

The project site has already been developed and the project site is located in an urbanized area surrounding by residential and commercial development. According to the California Department of Conservation Important Farmland Map, the project site is 100 percent Urban and Built-Up Land.¹ As such, the project site does not contain soils designated as Important Farmland (i.e., Prime Farmland, Unique Farmland or Farmland of Sitewide Importance). The site is not zoned for agricultural uses and is not under a Williamson Act contract. In addition, the project site is not utilized for agricultural or timber-harvest operations.

Wildfire

The Master EIR does not identify any significant impacts related to wildfire risk. Per the CAL FIRE Fire and Resources Assessment Program (FRAP), the City of Sacramento is located within a Local Responsibility Area (LRA). The City is not located within or adjacent to a State Responsibility Area (SRA) or a designated Very High Fire Hazard Severity Zone (VHFHSZ). Furthermore, the project site is located within a developed area where a substantial wildland-urban interface does not exist. Thus, the risk of wildfire at the project site is minimal. Based on the above, the proposed project would not create a substantial fire risk for existing development in the project vicinity.

¹ California Department of Conservation. *California Important Farmland Finder*. Available at: <u>https://maps.conservation.ca.gov/DLRP/CIFF/</u>. Accessed March 2021.

Issues	:	Effect will be studied in the EIR	Effect can be mitigated to less than significant	No additional significant environmental effect
1. <u>AES</u> Would A)	THETICS the proposal: Create a new source of glare that would cause a public hazard or annoyance?			х
B)	Create a new source of light that would be cast onto oncoming traffic or residential uses?			Х
C)	Substantially degrade the existing visual character of the site or its surroundings?			Х

ENVIRONMENTAL SETTING

The project site is located on a 9.06-acre site that is currently occupied by the Natomas Sports Club building/fitness center. The project site is located south of West El Camino and northeast of Natomas Park Drive, generally within an area of the City featuring single and multi-family residential developments as well as commercial development. Surrounding land uses include single-family residences to the north, multi-family housing to the east, a business park and daycare to the west, and multi-family housing to the south. The site is bound by the Bannon Creek Preserve Trail to the west, West El Camino Avenue to the north, and Natomas Park Drive to the south.

Public views of the project site include views from motorists, bicyclists, and pedestrians travelling on West El Camino Avenue and Natomas Park Drive, as well as from bicycles and pedestrians travelling along the Bannon Creek Preserve Trail. Public views of the project site from West El Camino Avenue and Natomas Park Drive are partially obscured due to various landscaping trees that line the roadway along the perimeter of the project site.

Existing scenic resources in the City include major natural open space features such as the American River and Sacramento River, including associated parkways. In addition, the State Capitol is a scenic resource within the City defined by the Capitol View Protection Ordinance. The project site does not contain scenic resources or within an area designated as a scenic resource or vista. The California Department of Transportation (Caltrans) manages the State Scenic Highway System which provides guidance and assists local government agencies with the process to officially designate scenic highways. According to Caltrans, designated scenic highways are not located in proximity to the project site and the project site is not visible from any State-designated scenic highways.²

STANDARDS OF SIGNIFICANCE

The significance criteria used to evaluate the project impacts to aesthetics are based on Appendix G of the CEQA Guidelines, thresholds of significance adopted by the City in applicable general plans and previous environmental documents, and professional judgment. A significant impact related to aesthetics would occur if the project would:

- Substantially interfere with an important scenic resource or substantially degrade the view of an existing scenic resource; or
- Create a new source of substantial light or glare that is substantially greater than typical urban sources and could cause sustained annoyance or hazard for nearby sensitive receptors.

² California Department of Transportation. California Scenic Highway Mapping System, Sacramento County. Available at: https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=2e921695c4 3643b1aaf7000dfcc19983. Accessed March 2021.

SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES

The Master EIR described the existing visual conditions in the City of Sacramento, and the potential changes to those conditions that could result from development consistent with the 2035 General Plan. See Master EIR, Chapter 4.13, Visual Resources.

The Master EIR identified potential impacts for light and glare (Impact 4.13-1) and concluded that impacts would be less than significant.

ANSWERS TO CHECKLIST QUESTIONS

Questions A and B

According to the Master EIR, the City of Sacramento is mostly built out, and a large amount of ambient light from urban uses already exists. New development under the Sacramento General Plan could add sources of light that are similar to the existing urban light sources from one of the following: exterior building lighting, new street lighting, parking lot lights, and headlights of vehicular traffic. Sensitive land uses would generally be residential uses, especially single- and multi-family residences. The nearest sensitive residential use to the project site is directly east and south of the project site. Potential new sources of light associated with development and operation of the proposed project would be similar to adjacent residential uses to the east and south of the project site.

Because the City of Sacramento is mostly built-out with a level of ambient light that is typical of and consistent with the urban character of a large city and new development allowed under the 2035 General Plan would be subject to the General Plan policies, building codes, and (for larger projects) design review, the introduction of substantially greater intensity or dispersal of light would not occur. For example, Policy ER 7.1.3. Lighting requires that misdirected, excessive, or unnecessary outdoor lighting be minimized. In addition, Policy ER 7.1.4: Reflective Glass prohibits new development from resulting in any of the following:

- (1) using reflective glass that exceeds 50 percent of any building surface and on the bottom three floors;
- (2) using mirrored glass;
- (3) using black glass that exceeds 25 percent of any surface of a building;
- (4) using metal building materials that exceed 50 percent of any street-facing surface of a primarily residential building; and
- (5) using exposed concrete that exceeds 50 percent of any building.

The proposed project would be required to comply with the aforementioned General Plan policies, which would be ensured through the Site Plan and Design Review process. Additionally, it is noted that the project site currently includes several sources of light and glare associated with the Natomas Sports Club. Redevelopment of the site with the proposed project would not result in substantially more light and/glare than what already exists.

Based on the above, while the proposed project would introduce sources of light and glare to the project site that are different from what currently exists, the type and intensity of light and glare would be similar to that of the surrounding developments and would be consistent with the existing land use. The proposed project would comply with all applicable General Plan policies related to minimizing light and glare, and compliance with such policies would be ensured during the design review for the project. Therefore, the proposed project would have **no additional significant environmental effect** beyond what was previously evaluated in the Master EIR.

Question C

New development associated with the 2035 General Plan could result in changes to important scenic resources as seen from visually sensitive locations. As described above under "Thresholds of Significance"

important existing scenic resources include major natural open space features such as the American River and Sacramento River, including associated parkways. Another important scenic resource is the State Capitol (as defined by the Capitol View Protection Ordinance). Other potential important scenic resources include important historic structures listed on the Sacramento Register of Historic and Cultural Resources, California and/or National Registers.

Visually-sensitive public locations include viewpoints where a change to the visibility of an important scenic resource, or a visual change to the resource itself, would affect the general public. Visually-sensitive public locations include public plazas, trails, parks, parkways, or designated, publicly available and important scenic corridors (e.g., Capitol View Protection Corridor).

The proposed project is not located near significant visual resources such as the Sacramento River, American River, or the State Capitol. While the project site is approximately 57 feet east of the Bannon Creek Preserve Trail, the proposed project would not create substantial adverse effects on the trail. In fact, the proposed project would improve the existing trail through the addition of access points from the proposed project to the trail.

The 2035 General Plan designates the site Suburban Neighborhood High, which permits the use of multifamily housing. The construction of the proposed project would be consistent with the permitted land use designation for the site and compatible with the existing multi-family homes east and south of the site. Because the proposed project is consistent with the General Plan, impacts related to aesthetics have been analyzed and anticipated within the General Plan EIR. According to the General Plan EIR, with adherence to polices pursuant to aesthetics, buildout of the General Plan would not substantially alter the existing visual character.

Furthermore, City staff would conduct Site Plan and Design Review prior to implementation of the proposed project. As noted in Chapter 17.808 of the Sacramento City Code, the purpose of Site Plan and Design Review is to ensure that the physical aspects of development projects are consistent with the General Plan and any other applicable specific plans or design guidelines, that projects are high quality and compatible with surrounding development, among other considerations. Accordingly, Site Plan and Design Review for the proposed project would ensure that the proposed development would not result in a substantial degradation in the existing visual character of the project site. Finally, the proposed project would be visually consistent with the surrounding developments including, specifically, the multi-family residential development located south of the project site.

Therefore, potential impacts to the visual character of the project site and its surroundings associated with development of the site with light industrial uses have been previously analyzed in the Master EIR, and the proposed project would have **no additional significant environmental effect** beyond what was previously evaluated in the Master EIR.

MITIGATION MEASURES

None required.

FINDINGS

The project would have no additional project-specific environmental effects relating to Aesthetics.

SUTTER GREENS 2.0 PROJECT Initial Study/Mitigated Negative Declaration

Issues	:	Effect will be studied in the EIR	Effect can be mitigated to less than significant	No additional significant environmental effect
2. <u>AIR</u> Would	QUALITY the project:			Y
A)	Result in construction emissions of NO _x above 85 pounds per day?			~
B)	Result in operational emissions of NO _x or ROG above 65 pounds per day?			Х
C)	Violate any air quality standard or have a cumulatively considerable contribution to an existing or projected air quality violation?			Х
D)	Result in PM ₁₀ and PM _{2.5} concentrations that exceed SAMQMD requirements?			Х
E)	Result in CO concentrations that exceed the 1-hour state ambient air quality standard (i.e., 20.0 ppm) or the 8-hour state ambient standard (i.e., 9.0 ppm)?			Х
F)	Result in exposure of sensitive receptors to substantial pollutant concentrations?		х	
G)	Result in TAC exposures create a risk of 10 in 1 million for stationary sources, or substantially increase the risk of exposure to TACs from mobile sources?		х	
H)	Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?			х

ENVIRONMENTAL SETTING

The City of Sacramento is located within the Sacramento Valley Air Basin (SVAB), which is a valley bounded by the North Coast Mountain Ranges to the west and the Northern Sierra Nevada Mountains to the east. The terrain in the valley is flat and approximately 25 feet above sea level. The City, including the project site, is located within the jurisdiction of the Sacramento Air Quality Management District (SMAQMD).

Hot, dry summers and mild, rainy winters characterize the Mediterranean climate of the Sacramento Valley. Throughout the year, daily temperatures may range by 20 degrees Fahrenheit with summer highs often exceeding 100 degrees and winter lows occasionally below freezing. Average annual rainfall is about 20 inches and snowfall is very rare. Summertime temperatures are normally moderated by the presence of the "Delta breeze" that arrives through the Carquinez Strait in the evening hours.

The mountains surrounding the SVAB create a barrier to airflow, which can trap air pollutants in the valley. The highest frequency of air stagnation occurs in the autumn and early winter when large high-pressure cells lie over the valley. The lack of surface wind during these periods and the reduced vertical flow caused by less surface heating reduces the influx of outside air and allows air pollutants to become concentrated in a stable volume of air. The surface concentrations of pollutants are highest when these conditions are combined with temperature inversions that trap cooler air and pollutants near the ground.

The warmer months in the SVAB (May through October) are characterized by stagnant morning air or light winds, and the Delta breeze that arrives in the evening out of the southwest. Usually, the evening breeze

transports a portion of airborne pollutants to the north and out of the Sacramento Valley. During about half of the day from July to September, however, a phenomenon called the "Schultz Eddy" prevents this from occurring. Instead of allowing the prevailing wind patterns to move north carrying the pollutants out of the valley, the Schultz Eddy causes the wind pattern to circle back south. This phenomenon exacerbates the pollution levels in the area and increases the likelihood of violating Federal or State standards. The Schultz Eddy normally dissipates around noon when the Delta breeze begins.

Criteria Air Pollutants

Concentrations of emissions from criteria air pollutants (the most prevalent air pollutants known to be harmful to human health) are used to indicate the quality of the ambient air. Criteria air pollutants include ozone, carbon monoxide (CO), nitrogen dioxide (NO₂), sulfur dioxide (SO₂), respirable and fine particulate matter (PM₁₀ and PM_{2.5}), and lead. The sources of criteria air pollutants and their respective acute and chronic health impacts are described in Table 1.

Existing Air Quality

The U.S. Environmental Protection Agency (EPA) has been charged with implementing national air quality programs. EPA's air quality mandates are drawn primarily from the federal Clean Air Act (CAA), which was enacted in 1970 and most recently amended by Congress in 1990. The CAA required EPA to establish the National Ambient Air Quality Standards (NAAQS) for the following criteria air pollutants: ozone, CO, NO₂, SO₂, PM₁₀, PM_{2.5}, and lead. CAA also requires each State to prepare a State implementation plan (SIP) for attaining and maintaining the NAAQS. The federal Clean Air Act Amendments of 1990 (CAAA) added requirements for states with nonattainment areas to revise their SIPs to incorporate additional control measures to reduce air pollution. Individual SIPs are modified periodically to reflect the latest emissions inventories, planning documents, and rules and regulations of the air basins as reported by their jurisdictional agencies.

The California Air Resources Board (CARB) is the agency responsible for coordination and oversight of State and local air pollution control programs in California and for implementing the California Clean Air Act (CCAA). The CCAA, which was adopted in 1988, required CARB to establish its own California Ambient Air Quality Standards (CAAQS). CARB has established CAAQS for sulfates, hydrogen sulfide, vinyl chloride, visibility-reducing particulate matter, and the above-mentioned criteria air pollutants. In most cases the CAAQS are more stringent than the NAAQS.

The SVAB is currently designated as nonattainment for the NAAQS 8-hour ozone standard and the CAAQS for both 1-hour and 8-hour O_3 standard. The SVAB is also currently designated as nonattainment for both NAAQS and CAAQS 24-hour PM_{10} standards. In addition, the SVAB is currently designated as nonattainment for the NAAQS 24-hour $PM_{2.5}$ standard. The air basin is designated as unclassified or in attainment for the remaining criteria air pollutants (SMAQMD 2019).

Toxic Air Contaminants

According to the California Almanac of Emissions and Air Quality (CARB 2013), the majority of the estimated health risks from toxic air contaminants (TACs) can be attributed to relatively few compounds, the most important being diesel particulate matter (diesel PM). Diesel PM differs from other TACs in that it is not a single substance, but rather a complex mixture of hundreds of substances. Although diesel PM is emitted by diesel-fueled internal combustion engines, the composition of the emissions varies depending on engine type, operating conditions, fuel composition, lubricating oil, and whether an emissions control system is being used. In addition to diesel PM, the TACs for which data are available that pose the greatest existing ambient risk in California are benzene, 1,3-butadiene, acetaldehyde, carbon tetrachloride, hexavalent chromium, para-dichlorobenzene, formaldehyde, methylene chloride, and perchloroethylene.

Table 1 Sources and Health Effects of Criteria Air Pollutants				
Pollutant	Sources	Acute ¹ Health Effects	Chronic ² Health Effects	
Ozone	Secondary pollutant resulting from reaction of ROG and NO _X in presence of sunlight. ROG emissions result from incomplete combustion and evaporation of chemical solvents and fuels; NO _X results from the combustion of fuels	Increased respiration and pulmonary resistance; cough, pain, shortness of breath, lung inflammation	Permeability of respiratory epithelia, possibility of permanent lung impairment	
Carbon monoxide (CO)	Incomplete combustion of fuels; motor vehicle exhaust	Headache, dizziness, fatigue, nausea, vomiting, death	Permanent heart and brain damage	
Nitrogen dioxide (NO ₂)	Combustion devices; e.g., boilers, gas turbines, and mobile and stationary reciprocating internal combustion engines	Coughing, difficulty breathing, vomiting, headache, eye irritation, chemical pneumonitis or pulmonary edema; breathing abnormalities, cough, cyanosis, chest pain, rapid heartbeat, death	Chronic bronchitis, decreased lung function	
Sulfur dioxide (SO ₂)	Coal and oil combustion, steel mills, refineries, and pulp and paper mills	Irritation of upper respiratory tract, increased asthma symptoms	Insufficient evidence linking SO2 exposure to chronic health impacts	
Respirable particulate matter (PM ₁₀), Fine particulate matter (PM _{2.5})	Fugitive dust, soot, smoke, mobile and stationary sources, construction, fires and natural windblown dust, and formation in the Atmosphere by condensation and/or transformation of SO2 and ROG	Breathing and respiratory symptoms, aggravation of existing respiratory and cardiovascular diseases, Premature death	Alterations to the immune system, carcinogenesis	
Lead	Metal processing es of nitrogen: ROG = reactive organic o	Reproductive/developmental effects (fetuses and children)	Numerous effects including neurological, endocrine, and cardiovascular effects	

"Acute" refers to effects of short-term exposures to criteria air pollutants, usually at fairly high concentrations.
"Chronic" refers to effects of long-term exposures to criteria air pollutants, usually at lower, ambient concentrations.

Source: EPA 2018.

Sensitive Receptors

Sensitive receptors are generally considered to include those land uses where exposure to pollutants could result in health-related risks to sensitive individuals, such as children or the elderly. Residential dwellings, schools, hospitals, playgrounds, and similar facilities are of primary concern because of the presence of individuals particularly sensitive to pollutants and/or the potential for increased and prolonged exposure of individuals to pollutants. The closest sensitive receptors to the project site include the multi-family residential complex located approximately 30 feet east of the project site, and the day care facility located approximately 90 feet west of the project site.

Greenhouse Gases

Certain gases in the earth's atmosphere, classified as greenhouse gases (GHGs), play a critical role in determining the earth's surface temperature. GHGs are responsible for "trapping" solar radiation in the earth's atmosphere, a phenomenon known as the greenhouse effect. Prominent GHGs contributing to the greenhouse effect are carbon dioxide (CO_2), methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. Human-caused emissions of these GHGs in excess of natural ambient concentrations are believed responsible for intensifying the greenhouse effect and leading to a trend of unnatural warming of the earth's climate, known as global climate change or global warming. Emissions of GHGs contributing to global climate change are attributable, in large part, to human activities associated with on-road and off-road transportation, industrial/manufacturing, electricity generation by utilities and consumption by end users, residential and commercial on-site fuel usage, and agriculture and forestry. Emissions of CO_2 are, largely, byproducts of fossil fuel combustion.

The quantity of GHGs in the atmosphere responsible for climate change is not precisely known, but it is enormous. No single project alone would measurably contribute to an incremental change in the global average temperature or to global or local climates or microclimates. From the standpoint of CEQA, GHG impacts relative to global climate change are inherently cumulative.

Several regulations currently exist related to GHG emissions, predominantly Assembly Bill (AB) 32, Executive Order S-3-05, and Senate Bill (SB) 32. AB 32 requires that Statewide GHG emissions be reduced to 1990 levels by 2020. Executive Order S-3-05 established the GHG emission reduction target for the State to reduce to the 2000 level by 2010, the 1990 level by 2020 (AB 32), 40 percent below the 1990 level by 2030, and to 80 percent below the 1990 level by 2050 (SB 32).

To meet the statewide GHG emission targets, the City adopted the City of Sacramento Climate Action Plan (CAP) on February 14, 2012 to comply with AB 32. The CAP identified how the City and the broader community could reduce Sacramento's GHG emissions and included reduction targets, strategies, and specific actions. In 2015, the City of Sacramento adopted the 2035 General Plan Update. The update incorporated measures and actions from the CAP into Appendix B, General Plan CAP Policies and Programs, which includes citywide policies and programs that are supportive of reducing GHG emissions.

STANDARDS OF SIGNIFICANCE

For purposes of this Initial Study, air quality impacts may be considered significant if construction and/or implementation of the proposed project would result in the following impacts that remain significant after implementation of 2035 General Plan policies:

- Construction emissions of NO_X above 85 pounds per day;
- Operational emissions of NOx or ROG above 65 pounds per day;
- Violation of any air quality standard or contribute substantially to an existing or projected air quality violation;
- Any increase in PM₁₀ concentrations, unless all feasible Best Available Control Technology (BACT) and Best Management Practices (BMPs) have been applied, then increases above 80 pounds per day or 14.6 tons per year;
- CO concentrations that exceed the 1-hour State ambient air quality standard (i.e., 20.0 ppm) or the 8-hour State ambient standard (i.e., 9.0 ppm); or
- Exposure of sensitive receptors to substantial pollutant concentrations.

Ambient air quality standards have not been established for toxic air contaminants (TAC). TAC exposure is deemed to be significant if:

• TAC exposures create a risk of 10 in 1 million for stationary sources, or substantially increase the risk of exposure to TACs from mobile sources.

A project is considered to have a significant effect relating to greenhouse gas emissions if the project fails to satisfy the requirements of the City's CAP.

SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES

The Master EIR addressed the potential effects of the 2035 General Plan on ambient air quality and the potential for exposure of people, especially sensitive receptors such as children or the elderly, to unhealthful pollutant concentrations. See Master EIR, Chapter 4.2.

Policies in the 2035 General Plan Environmental Resources Element were identified as mitigating potential effects of development that could occur under the 2035 General Plan. For example, Policy ER 6.1.1 calls for the City to work with the CARB and the SMAQMD to meet State and federal air quality standards; Policy ER 6.1.2 requires the City to review proposed development projects to ensure that the projects incorporate feasible measures that reduce construction and operational emissions; Policy ER 6.1.4 and ER 6.1.11 calls for coordination of City efforts with SMAQMD; and Policy ER 6.1.15 requires the City to give preference to contractors using reduced-emission equipment.

The Master EIR identified exposure to sources of toxic air contaminants (TAC) as a potential effect. Policies in the 2035 General Plan would reduce the effect to a less-than-significant level. The policies include ER 6.1.4, requiring coordination with SMAQMD in evaluating exposure of sensitive receptors to TACs, and impose appropriate conditions on projects to protect public health and safety, as well as Policy LU 2.7.5 requiring extensive landscaping and trees along freeways and design elements that provide proper filtering, ventilation, and exhaust of vehicle air emissions from buildings.

The Master EIR found that greenhouse gas emissions that would be generated by development consistent with the 2035 General Plan would contribute to climate change on a cumulative basis. Policies of the 2035 General Plan identified in the Master EIR that would reduce construction related GHG emissions include: ER 6.1.2, ER 6.1.11 requiring coordination with SMAQMD to ensure feasible mitigation measures are incorporated to reduce GHG emissions, and ER 6.1.15. The 2035 General Plan incorporates the GHG reduction strategy of the 2012 CAP, which demonstrates compliance mechanism for achieving the City's adopted GHG reduction target of 15 percent below 2005 emissions by 2020. Policy ER 6.1.8 commits the City to assess and monitor performance of GHG emission reduction efforts beyond 2020, and progress toward meeting long-term GHG emission reduction goals, ER 6.1.9 also commits the City to evaluate the feasibility and effectiveness of new GHG emission of greenhouse gas emissions and climate change in the 2035 General Plan Master EIR are incorporated by reference in this Initial Study (CEQA Guidelines Section 15150).

The Master EIR identified numerous policies included in the 2035 General Plan that addressed greenhouse gas emissions and climate change. See Draft Master EIR, Chapter 4.14, and pages 4.14-1 et seq.

ANSWERS TO CHECKLIST QUESTIONS

Questions A through D

Implementation of the proposed project would contribute local emissions in the area during both construction and operations of the proposed project. In order to evaluate ozone and other criteria air pollutant emissions and support attainment goals for those pollutants that the area is designated nonattainment, the SMAQMD has established recommended thresholds of significance, including mass emission thresholds for construction-related and operational ozone precursors, as the area is under nonattainment for ozone. The SMAQMD's recommended thresholds of significance for the ozone precursors reactive organic gases (ROG) and nitrous oxides (NO_X), particulate matter 10 microns in diameter or less (PM₁₀), and particulate matter 2.5 microns in diameter or less (PM_{2.5}), which are expressed in pounds per day (lbs/day), are presented in Table 2. It should be noted that SMAQMD has recently adopted mass emissions thresholds of significance for PM₁₀ and PM_{2.5} which have been included in the proposed project's analysis as shown below.

Table 2 SMAQMD Thresholds of Significance (Ibs/day)				
Pollutant Construction Thresholds Operational Thresholds				
NOx	85	65		
ROG	-	65		
PM ₁₀	80	80		
PM _{2.5}	82	82		
Source: Sacramento Metropolitan Air Quality Management District. SMAQMD Thresholds of Significance Table.				
Available at: http://www.airguality.org/LandUseTransportation/Documents/CH2ThresholdsTable4-2020.pdf.				

Accessed May 2021.

Because construction equipment emits relatively low levels of ROG, and ROG emissions from other construction processes (e.g., asphalt paving, architectural coatings) are typically regulated by SMAQMD, SMAQMD has not adopted a construction emissions threshold for ROG. SMAQMD has, however, adopted a construction emissions threshold for NO_x, as shown in Table 2, above.

In order to determine whether the proposed project would result in criteria pollutant emissions in excess of the applicable thresholds of significance presented above, the proposed project's emissions have been estimated using the California Emissions Estimator Model (CalEEMod) version 2016.3.2 software – a statewide model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify air quality emissions, including GHG emissions, from land use projects. The model applies inherent default values for various land uses, including trip generation rates based on the Institute of Transportation Engineers (ITE) Manual, vehicle mix, trip length, average speed, etc. However, where project-specific data is available, such data should be input into the model. Accordingly, based on information provided by the City of Sacramento Public Works Department for the proposed project, trip generation rates were updated to reflect project details.

The results of the proposed project's emissions estimates were compared to the thresholds of significance above in order to determine the associated level of impact. All CalEEMod modeling results are included as Appendix A to this IS/MND.

Construction Emissions

During construction of the proposed project, which includes demolition of the existing on-site facilities, various types of equipment and vehicles would operate on the project site. Construction exhaust emissions would be generated from construction equipment, any earth-moving activities, construction workers' commute, and material hauling for the entire construction period. These activities would involve the use of diesel- and gasoline-powered equipment that would generate emissions of criteria pollutants.

According to the CalEEMod results, the proposed project is estimated to result in maximum daily construction emissions as shown in Table 3.

Table 3 Maximum Unmitigated Project Construction Emissions					
	Project Emissions SMAQMD Threshold of Significance				
Pollutant	(lbs/day)	(lbs/day)			
NOx	33.12	85			
PM ₁₀ 19.82 80					
PM _{2.5} 11.45 82					
Source: CalEEMod, May 2021 (see Appendix A).					

As shown in the table, the proposed project's maximum unmitigated construction-related emissions would be below the applicable thresholds of significance. In addition, all projects under the jurisdiction of SMAQMD are required to comply with all applicable SMAQMD rules and regulations (a complete list of current rules is available at www.airquality.org/rules). Rules and regulations related to construction include, but not limited to, Rule 201 (General Permit Requirements), Rule 402 (Nuisance), Rule 403 (Fugitive Dust),

Rule 404 (Particulate Matter), Rule 414 (Water Heaters, Boilers and Process Heaters Rated Less Than 1,000,000 British Thermal Units per Hour), Rule 417 (Wood Burning Appliances), Rule 442 (Architectural Coatings), Rule 453 (Cutback and Emulsified Asphalt Paving Materials), Rule 460 (Adhesives and Sealants), Rule 902 (Asbestos) and California Code of Regulations (CCR) requirements related to the registration of portable equipment and anti-idling. Furthermore, all projects are required to implement the SMAQMD's Basic Construction Emission Control Practices (BCECP). Compliance with SMAQMD rules and regulations and BCECP would ensure that construction emissions are minimized to the extent practicable, and would reduce emissions below the level presented in Table 3. Therefore, impacts related to the proposed project's construction emissions would be less than significant.

Operational Emissions

SMAQMD has developed screening criteria to aid in determining if emissions from development projects would exceed the SMAQMD thresholds of significance presented in Table 2. The screening criteria provides a conservative indication of whether a development project could result in potentially significant air quality impacts. According to SMAQMD, if a project is below the screening level identified for the applicable land use type, emissions from the operation of the project would have a less-than-significant impact on air quality. The screening criterion for operational emissions associated with a mid-rise apartment is 740 units for ozone precursors and 1,385 units for particulate matter.³ The proposed project involves the development of up to 190 units, which would be below the operational screening criteria for both categories of criteria pollutants. Therefore, based on the SMAQMD's screening criteria, the proposed project's operational emissions would not be expected to exceed SMAQMD thresholds of significance.

Nonetheless, to confirm this conclusion, operational air quality emissions were estimated using CalEEMod, and are presented in Table 4.

Table 4 Maximum Unmitigated Project Operational Emissions				
Project Emissions SMAQMD Threshold of Significance				
Pollutant	(Ibs/day)	(lbs/day)		
NOx	6.95	65		
ROG	6.04	65		
PM10	4.84	80		
PM _{2.5} 1.41 82				
Source: CalEEMod, May 2021 (see Appendix A).				

As shown in the table, the proposed project's maximum unmitigated operational emissions or criteria pollutants would be below the applicable thresholds of significance and, as a result, impacts related to operational emissions would be considered less than significant.

Cumulative Emissions

SMAQMD rules and regulations, as well as the thresholds of significance, have been developed with the intent to ensure continued attainment of AAQS, or to work towards attainment of AAQS for which the area is currently designated nonattainment, consistent with applicable air quality plans. As future attainment of AAQS is a function of successful implementation of SMAQMD's planning efforts, according to the SMAQMD Guide, by exceeding the SMAQMD's project-level thresholds for construction or operational emissions, a project could contribute to the region's nonattainment status for ozone and PM emissions and could be considered to conflict with or obstruct implementation of the SMAQMD's air quality planning efforts.

As discussed above and below, the proposed project would result in construction and operational emissions below all applicable SMAQMD thresholds of significance. Therefore, the proposed project would not be considered to contribute to the region's nonattainment status for ozone or PM emissions and would not conflict with or obstruct implementation of the SMAQMD's air quality planning efforts. Accordingly, the

³ Sacramento Metropolitan Air Quality Management District. *SMAQMD Operational Screening Levels*. April 2018.

proposed project would not violate any air quality standard or contribute substantially to an existing or projected air quality violation, and a less-than-significant impact would occur.

Conclusion

As discussed above, construction of the proposed project would result in emissions below the thresholds of significance. In addition, due to the project size, the project would be below the operational screening criteria developed by SMAQMD. Thus, the proposed project would not result in construction or operational emissions in excess of the applicable thresholds of significance. Because the proposed project would result in emissions below the applicable thresholds of significance during both construction and operations, the proposed project would not violate an AAQS, contribute substantially to an existing or projected air quality violation, or result in PM concentrations greater than the applicable thresholds. Therefore, the proposed project would have **no additional significant environmental effect** beyond what was previously evaluated in the Master EIR.

Question E

Localized concentrations of CO are related to the levels of traffic and congestion along streets and at intersections. Per the SMAQMD Guide, emissions of CO are generally of less concern than other criteria pollutants, as operational activities are not likely to generate substantial quantities of CO, and the SVAB has been in attainment for CO for multiple years.⁴ The proposed project would not involve operational changes that could result in long-term generation of CO. The use of construction equipment at each site would result in limited generation of CO; however, the total amount of CO emitted by construction equipment would be minimal and would not have the potential to result in health risks to any nearby receptors. Consequently, the proposed project would have **no additional significant environmental effects** related to localized CO emissions beyond what was previously evaluated in the Master EIR.

Question F and G

The area surrounding the project site has already been developed. The existing multi-family residences would be considered sensitive receptors, with the closest located approximately 30 feet east of the project site boundary. In addition, a day care facility is located approximately 90 feet west of the project site.

TAC Emissions

The CARB Handbook provides recommendations for siting new sensitive land uses near sources typically associated with significant levels of TAC emissions, including, but not limited to, freeways and high traffic roads, distribution centers, and rail yards. The CARB has identified DPM from diesel-fueled engines as a TAC; thus, high volume freeways, stationary diesel engines, and facilities attracting heavy and constant diesel vehicle traffic are identified as having the highest associated health risks from DPM. Health risks from TACs are a function of both the concentration of emissions and the duration of exposure.

Operational-related emissions of TACs are typically associated with stationary diesel engines or land uses that involve heavy diesel truck traffic or idling. The proposed project does not involve long-term operation of any stationary diesel engine or other major on-site stationary source of TACs. The CARB's Handbook includes facilities (distribution centers) with associated diesel truck trips of more than 100 trucks per day as a source of substantial TAC emissions. The project is not a distribution center, would not involve heavy diesel truck traffic, and is not located near any existing distribution centers. Therefore, the proposed project would not expose any existing sensitive receptors to any new permanent or substantial TAC emissions.

However, short-term, construction-related activities could result in the generation of TACs, primarily DPM, from on-road haul trucks and off-road equipment exhaust emissions. Although DPM emissions from on-road haul trucks would be widely dispersed throughout the project area, as haul trucks move goods and

⁴ Sacramento Metropolitan Air Quality Management District. *Guide to Air Quality Assessment, Chapter 4:* Operational Criteria Air Pollutant and Precursor Emissions. June 2020.

material to and from the site, exhaust from off-road equipment would primarily occur within the project site. Consequently, the operation of off-road equipment within the project site during demolition and project construction could result in exposure of nearby residents to DPM.

To analyze potential health risks to nearby residents that could result from DPM emissions from off-road equipment at the project site, total DPM emissions from demolition and project construction were estimated. DPM is considered a subset of PM_{2.5}, thus, the CalEEMod estimated PM_{2.5} emissions from exhaust during construction was conservatively assumed to represent all DPM emitted on-site. The CalEEMod estimated PM_{2.5} exhaust emissions were then used to calculate the concentration of DPM at the maximally exposed sensitive receptor near the project site. DPM concentrations resulting from project implementation were estimated using the American Meteorological Society/Environmental Protection Agency (AMS/EPA) Regulatory Model (AERMOD). The results of AERMOD are presented Figure 4. As presented therein, the maximally exposed receptor, depicted by a white X, is located east of the project site.

The associated cancer risk and non-cancer hazard index were calculated using the CARB's Hotspot Analysis Reporting Program Version 2 (HARP 2) Risk Assessment Standalone Tool (RAST), which calculates the cancer and non-cancer health impacts using the risk assessment guidelines of the 2015 Office of Environmental Health Hazard Assessment (OEHHA) Guidance Manual for Preparation of Health Risk Assessments.⁵ The modeling was performed in accordance with the USEPA's User's Guide for the AERMOD⁶ and the 2015 OEHHA Guidance Manual.

Based on the foregoing methodology, and the methodology presented above regarding the estimation of construction emissions, the cancer risk and non-cancer hazard indices were estimated and are presented in Table 5.

Table 5						
Maximum Unmitigated Cancer Risk and Hazard Index Associated with Project Construction						
	DPM					
	Cancer Risk					
(per million Acute Hazard Chronic						
persons) Index Hazard Index						
	persons)	Index	Hazard Index			
Construction DPM Health Risks	persons) 41.79	0.00	Hazard Index 0.02			
Construction DPM Health Risks Thresholds of Significance	persons) 41.79 10	Index 0.00 1.0	Hazard Index 0.02 1.0			
Construction DPM Health Risks Thresholds of Significance Exceed Thresholds?	persons) 41.79 10 YES	0.00 1.0 NO	Hazard Index 0.02 1.0 NO			

As shown in Table 5, construction of the proposed project would not result in acute or chronic hazards in excess of SMAQMD's standards. However, project construction would conservatively have the potential to result in cancer risks in excess of SMAQMD's 10 cases per million threshold. Thus, construction of the proposed project could result in exposure of nearby receptors to substantial pollutant concentrations.

Conclusion

Based on the above, the proposed project would not cause or be exposed to substantial concentrations of localized CO. However, construction activities associated with implementation of the proposed project would generate DPM concentrations that could result in health risks that exceed the SMAQMD's thresholds of significance. Therefore, exposure of sensitive receptors to substantial pollutant concentrations could occur as a result of the proposed project, and impacts would be potentially significant. With implementation of Mitigation Measure 2-1, the *effect can be mitigated to less than significant*.

⁵ Office of Environmental Health Hazard Assessment. *Air Toxics Hot Spots Program Risk Assessment Guidelines, Guidance Manual for Preparation of Health Risk Assessments* [pg. 8-18]. February 2015.

⁶ U.S. Environmental Protection Agency. *User's Guide for the AMS/EPA Regulatory Model (AERMOD)*. December 2016.



Figure 7 AERMOD Results

Source: AERMOD, July 2021 (see Appendix A).

Question H

Emissions from operations of the proposed project were quantified and would equal approximately 980.46 metric tons of CO₂ equivalent units per year. It is noted that the SMAQMD considers operational GHG emissions of less than 1,100 metric tons of CO₂ equivalent units per year to be less than significant. However, the City of Sacramento does not assess potential impacts related to GHG emissions on the basis of total emissions of GHGs. Rather, the City of Sacramento has integrated a CAP into the City's General Plan, and, thus, potential impacts related to climate change from development within the City are assessed based on the project's compliance with the City's adopted General Plan CAP Policies and Programs set forth in Appendix B of the General Plan Update. The majority of the policies and programs set forth in Appendix B are citywide efforts in support of reducing overall citywide emissions of GHG. However, various policies related to new development within the City apply to the proposed project. The project's General Plan is discussed below.

Goal LU 1.1 and Policy LU 1.1.5 encourage infill development within existing urbanized areas. Given that the proposed project would be consistent with the site's current land use and zoning designations and the surrounding areas are currently built-out, the project would be consistent with Goal LU 1.1 and Policy LU 1.1.5. The proposed project would be constructed in compliance with the California Building Standards Code (CBSC), which includes the California Building Energy Efficiency Standards and the California Green Building Code. The CBSC, and the foregoing standards and codes, increase the sustainability of new development through requiring energy efficiency and sustainable design practices (Policy ER 6.1.7). Such sustainable design would support the City's Policy U 6.1.5, which states that energy consumption per capita should be reduced as compared to the year 2005.

Goal LU 2.5, Policy LU 2.5.1, and Policy LU 2.7.6 require that new urban developments should be wellconnected, minimize barriers between uses, and create pedestrian-scaled, walkable areas. Considering the proposed project would include pedestrian and bicycle connections to the Bannon Creek Preserve Trail, the proposed project would comply with the aforementioned goals and policies.

The Master EIR concluded that buildout of the City's General Plan, including the project site, would not result in a conflict with applicable plans, policies, or regulations adopted for the purpose of reducing GHG emissions. The proposed project would be consistent with the City's General Plan land use and zoning designations for the site as well as the policies discussed above that are intended to reduce GHG emissions from buildout of the City's General Plan. Thus, GHG emissions from operation of the proposed project were previously analyzed in the Master EIR, and would be consistent with the CAP. Considering the project's consistency with the City's General Plan, including the CAP, and the general consistency with the City's General Plan policies intended to reduce GHG emissions, the foregoing annual emissions related to operations of the proposed project have been previously analyzed. Consequently, the proposed project would have **no additional significant environmental effect** beyond what was previously evaluated in the Master EIR.

MITIGATION MEASURES

The most effective way to reduce construction-related DPM emissions is by improving the engine tier/engine efficiency of construction equipment. Off-road diesel engines that are used in construction equipment fall into efficiency tiers, with the most efficient being the Tier 4 emission standards. Engine Tiers 3 through 1 are regressively less efficient. Based on modeling conducted, as demonstrated in Table 6, use of higher tier construction equipment for all construction activities would ensure that DPM emissions from construction equipment do not result in increased health risks to nearby receptors in excess of SMAQMD's standards. Consequently, implementation of the following mitigation measure would reduce impacts related to Air Quality to a *less-than-significant* level.

Table 6 Maximum Mitigated Cancer Risk and Hazard Index Associated with Project Construction DPM						
Cancer Risk (per million Acute Hazard Chronic persons) Index Hazard Inde						
Construction DPM Health Risks	9.95	0.00	0.02			
Thresholds of Significance	10	1.0	1.0			
Exceed Thresholds? NO NO NO						
Source: AERMOD and HARP 2 RAST. May 2021 (see Appendix A).						

2-1

Prior to the initiation of ground disturbance, the project applicant shall show on the plans via notation that the contractor shall ensure that the heavy-duty off-road vehicles (50 horsepower or more) to be used in the construction project, including owned, leased, and subcontractor vehicles, shall not generate $PM_{2.5}$ emissions in excess of 0.00133 tons $PM_{2.5}$ per year. The $PM_{2.5}$ reduction shall be achieved by requiring a combination of engine Tier 3 or Tier 4 off-road construction equipment or the use of hybrid, electric, or alternatively fueled equipment.

In addition, all off-road equipment working at the construction site must be maintained in proper working condition according to manufacturer's specifications. Idling shall be limited to five minutes or less in accordance with the Off-Road Diesel Fueled Fleet Regulation as required by CARB. Portable equipment over 50 horsepower must have either a valid District Permit to Operate (PTO) or a valid statewide Portable Equipment Registration Program (PERP) placard and sticker issued by CARB.

The aforementioned requirements shall be noted on Grading Plans and submitted for review and approval by the City of Sacramento Community Development Department.

FINDINGS

All additional significant environmental effects of the project relating to Air Quality can be mitigated to a less-than-significant level.

Issues:	:	Effect will be studied in the EIR	Effect can be mitigated to less than significant	No additional significant environment al effect
3. <u>BIOI</u>	LOGICAL RESOURCES			
vvouid	the project:			
A)	Create a potential health hazard, or use, production or disposal of materials that would pose a hazard to plant or animal populations in the area affected?			Х
B)	Result in substantial degradation of the quality of the environment, reduction of the habitat, reduction of population below self-sustaining levels of threatened or endangered species of plant or animal species?		х	
C)	Affect other species of special concern to agencies or natural resource organizations (such as regulatory waters and wetlands)?			Х

ENVIRONMENTAL SETTING

Prior to human development, the natural habitats within the region included perennial grasslands, riparian woodlands, oak woodlands, and a variety of wetlands including vernal pools, seasonal wetlands, freshwater marshes, ponds, streams, and rivers. Over the last 150 years, agriculture, irrigation, flood control, and urbanization have resulted in the loss or alteration of much of the natural habitat within the City limits. Non-native annual grasses have replaced the native perennial grasslands, many of the natural streams have been channelized, much of the riparian and oak woodlands have been cleared, and most of the marshes have been drained and converted to agricultural or urban uses.

Though the majority of the City is developed with residential, commercial, and other urban development, valuable plant and wildlife habitat still exists. The natural habitats are located primarily outside the City boundaries in the northern, southern and eastern portions of the City, but also occur along river and stream corridors and on a number of undeveloped parcels. Habitats that are present in the City include annual grasslands, riparian woodlands, oak woodlands, riverine, ponds, freshwater marshes, seasonal wetlands, and vernal pools.

Vegetation

The proposed project site is currently developed with features such as a parking lot, tennis courts, swimming pool, outdoor covered areas, and a building/fitness center. Trees and shrubs occur along the borders of the project site, specifically within the Bannon Creek Preserve and along the Bannon Creek Preserve Trail.

Wildlife

Due to the disturbed nature of the project site, the potential for a diversified amount of wildlife is anticipated to be very low; however, several trees on and in the immediate vicinity of the project site could potentially provide nesting habitat for bird species and other raptors.

Trees

Chapter 12.56, Tree Planting, Maintenance, and Conservation, of the Sacramento City Code establishes guidelines for the conversation, protection, removal, and replacement of both City trees and private protected trees. Per Section 12.56.020, a private protected tree meets at least one of the following criteria:

- A. A tree that is designated by City Council resolution to have special historical value, special environmental value, or significant community benefit, and is located on private property;
- B. Any native Valley Oak (Quercus lobata), Blue Oak (Quercus douglasii), Interior Live Oak (Quercus wislizenii), Coast Live Oak (Quercus agrifolia), California Buckeye (Aesculus californica), or California Sycamore (Platanus racemosa), that has a diameter at standard height (DSH) of 12 inches or more, and is located on private property;
- C. A tree that has a DSH of 24 inches or more located on private property that:
 - a. Is an undeveloped lot; or
 - b. Does not include any single unit or duplex dwellings; or
- D. A tree that has a DSH of 32 inches or more located on private property that includes any single unit or duplex dwellings.

When circumstances do not allow for retention of trees, permits are required to remove City trees or private protected trees that are within the City's jurisdiction. In addition, City Code Section 12.56.050, Tree Permits, states that no person shall perform regulated work without a tree permit. The Tree Permit application requires a statement detailing the nature and necessity for the proposed regulated work and the location of the proposed work for evaluation and approval by the City Council.

An Arborist Report was prepared for the project site by California Tree and Landscape Consulting, Inc. (see Appendix B). California Tree and Landscape Consulting, Inc. conducted a site survey January 12, 2021 to evaluate the 156 trees on-site and within 25 feet of development. According to California Tree and Landscape Consulting, Inc, of the surveyed trees, 54 are proposed for removal to facilitate implementation of the proposed project, eight of which are considered private protected under City Code Chapter 12.56 (see Table 1 – Tree Inventory of the Arborist Report).

Jurisdictional Waters

The U.S. Army Corps of Engineers (USACE) has regulatory authority of "waters of the United States," which include wetlands, pursuant to Section 404 of the Clean Water Act (CWA). Waters of the U.S. includes navigable waters, interstate waters, and all other waters where the use, degradation, or destruction of the waters could affect interstate or foreign commerce, tributaries to any of these waters, and wetlands that meet any of these criteria or that are adjacent to any of these waters or their tributaries. Aquatic resources do not exist on the project site.

Natomas Basin Habitat Conservation Plan

The Natomas Basin Habitat Conservation Plan (NBHCP), adopted in 1997 and revised in 2003, is a conservation plan designed to promote biological conservation along with economic development and continuation of agriculture in the Natomas Basin. The Natomas Basin includes portions of Sacramento and Sutter County, including the project site. The NBHCP is part of the requirements of the Endangered Species Act designed to support applications for federal permits under Section 10(a)(1)(B). The NBHCP is also intended to serve as an application for Incidental Take Permits (ITPs) under California state law pursuant to Section 2081(b) of the California Department of Fish and Game (CDFG) Code. The requirement for issuance of the federal and State permits is described in Section I.I of the NBHCP.

The NBHCP is designed to serve a number of purposes, including but not limited to the satisfaction of the federal and State Endangered Species Acts, Mitigation and Monitoring Plan requirements specified in the North Natomas Community Plan, and requirements of the Sacramento Area Flood Control Agency (SAFCA) Permit, relating to direct, indirect, and cumulative biological impacts associated with Urban Development in the Permit Area. As such, the NBHCP allows developers to pay mitigation fees to satisfy requirements

covered by the plan. NBHCP fees are adjusted based on the HCP Finance Model, which is periodically reviewed and considered by the Board of Directors of The Natomas Basin Conservancy (TNBC), and are intended to represent the true cost of a development's mitigation share within the Natomas Basin.

Development within the project site is required to be consistent with the NBHCP. The project site is identified as existing development under the NBHCP and, therefore, development of the project is exempt from the NBHCP fees.

STANDARDS OF SIGNIFICANCE

For purposes of this environmental document, an impact would be significant if any of the following conditions or potential thereof, would result with implementation of the proposed project:

- Creation of a potential health hazard, or use, production or disposal of materials that would pose a hazard to plant or animal populations in the area affected;
- Substantial degradation of the quality of the environment, reduction of the habitat, reduction of population below self-sustaining levels of threatened or endangered species of plant or animal; or
- Affect other species of special concern to agencies or natural resource organizations (such as regulatory waters and wetlands).

For the purposes of this document, "special-status" has been defined to include those species, which are:

- Listed as endangered or threatened under the federal Endangered Species Act (or formally proposed for, or candidates for, listing);
- Listed as endangered or threatened under the California Endangered Species Act (or proposed for listing);
- Designated as endangered or rare, pursuant to California Fish and Game Code (Section 1901);
- Designated as fully protected, pursuant to California Fish and Game Code (Section 3511, 4700, or 5050);
- Designated as species of concern by U.S. Fish and Wildlife Service (USFWS), or as species of special concern to California Department of Fish and Wildlife (CDFW);
- Plants or animals that meet the definition of rare or endangered under the California Environmental Quality Act (CEQA).

SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES

Chapter 4.3 of the Master EIR evaluated the effects of the 2035 General Plan on biological resources within the City. The Master EIR identified potential impacts in terms of degradation of the quality of the environment or reduction of habitat or population below self-sustaining levels of special-status birds, through the loss of both nesting and foraging habitat.

Policies in the 2035 General Plan were identified as mitigating the effects of development that could occur under the provisions of the 2035 General Plan. Policy ER 2.1.5 calls for the City to preserve the ecological integrity of creek corridors and other riparian resources; Policy ER 2.1.10 requires the City to consider the potential impact on sensitive plants for each project and to require pre-construction surveys when appropriate; and Policy ER 2.1.11 requires the City to coordinate its actions with those of the California Department Fish and Wildlife, U.S. Fish and Wildlife Service, and other agencies in the protection of resources.

The Master EIR discussed biological resources in Chapter 4.3. The Master EIR concluded that policies in the general plan, combined with compliance with the California Endangered Species Act, NBHCP (when applicable) and CEQA would minimize the impacts on special-status species to a less-than-significant level (see Impact 4.3-1), and that the general plan policies, along with similar compliance with local, state and federal regulation would reduce impacts to a less-than-significant level for habitat for special-status invertebrates, birds, amphibians and reptiles, mammals and fish (Impacts 4.3-3-6).

Given the prevalence of rivers and streams in the incorporated area, impacts to riparian habitat is a common concern. Riparian habitats are known to exist throughout the City, especially along the Sacramento and American rivers and their tributaries. The Master EIR discussed impacts of development adjacent to riparian habitat that could disturb wildlife species that rely on these areas for shelter and food, and could also result in the degradation of these areas through the introduction of feral animals and contaminants that are typical of urban uses. The CDFW regulates potential impacts on lakes, streams, and associated riparian (streamside or lakeside) vegetation through the issuance of Lake or Streambed Alteration Agreements (SAA) (per Fish and Game Code Section 1602), and provides guidance to the City as a resource agency. While there are no federal regulations that specifically mandate the protection of riparian vegetation, federal regulations set forth in Section 404 of the Clean Water Act address areas that potentially contain riparian-type vegetation, such as wetlands.

The General Plan calls for the City to preserve the ecological integrity of creek corridors, canals and drainage ditches that support riparian resources (Policy ER 2.1.5) and wetlands (Policy ER 2.1.6) and requires habitat assessments and impact compensation for projects (Policy ER 2.1.10). The City has adopted a standard that requires coordination with State and federal agencies if a project has the potential to affect other species of special concern or habitats (including regulatory waters and wetlands) protected by agencies or natural resource organizations (Policy ER 2.1.11).

Implementation of 2035 General Plan Policy ER 2.1.5 would reduce the magnitude of potential impacts by requiring a 1:1 replacement of riparian habitat lost to development. While this would help mitigate impacts on riparian habitat, large open areas of riparian habitat used by wildlife could be lost and/or degraded directly and indirectly through development under the 2035 General Plan. Given the extent of urban development designated in the general plan, the preservation and/or restoration of riparian habitat would likely occur outside of the City limits. The Master EIR concluded that the permanent loss of riparian habitat would be a less-than-significant impact. (Impact 4.3-7)

ANSWERS TO CHECKLIST QUESTIONS

Question A

The use, handling, and storage of hazardous materials is regulated by both the Federal Occupational Safety and Health Administration (Fed/OSHA) and the California Occupational Safety and Health Administration (Cal/OSHA). Cal/OSHA is responsible for developing and enforcing workplace safety regulations. At the local level, the Sacramento County Environmental Management Department regulates hazardous materials within Sacramento County, including chemical storage containers, businesses that use hazardous materials, and hazardous waste management.

The use and storage of hazardous materials is regulated by Section 8.64 of the Sacramento Municipal Code. Section 8.64.040 establishes regulation related to the designation of hazardous materials and requires that a hazardous material disclosure form be submitted within 15 days by any person using or handling a hazardous material. In addition, the routine transport, use, and disposal of hazardous materials are regulated by existing federal, State, and local regulations. For instance, the Sacramento County Environmental Management Department requires businesses handling sufficient quantities of hazardous materials to submit a Hazardous Materials Business Plan and obtain permitting.

Furthermore, residential uses are not typically associated with the routine transport, use, or disposal of hazardous materials, or present a reasonably foreseeable release of hazardous materials. Any hazardous materials associated with the residential uses would consist primarily of typical household cleaning products and fertilizers, which would be utilized in small quantities and in accordance with label instructions, which are based on federal and/or State health and safety regulations. Therefore, the proposed project would have **no additional significant environmental effect** related to creating a potential health significant hazard to plant or animal populations in the area beyond what was previously evaluated in the Master EIR.

Question B

The proposed project would include the demolition of the existing Natomas Sports Club and the construction and operation of a multi-family development consisting of 190 units distributed throughout 10 buildings. According to the Arborist Report prepared for the project, 61 trees would be removed to accommodate the proposed development. A search of the California Natural Diversity Database (CNDDB) was performed for the project site quadrangle (Sacramento West) as well as the eight surrounding quadrangles (i.e., Grays Bend, Taylor Monument, Rio Linda, Sacramento East, Florin, Clarksburg, Saxon, and Davis) to determine which special-status plant and wildlife species are known to occur within the region. The results of the CNDDB query are discussed below.

Special-Status Plant Species

As noted previously, the project site is currently developed with buildings, outdoor recreation facilities, and parking areas. As a result, due to the lack of sufficient on-site habitat and the highly disturbed nature of the site, special-status plants are not likely to occur on-site.

Special-Status Wildlife Species

Of the special-status wildlife species identified as having the potential to exist in the project area, most were eliminated from further consideration due to habitat requirements (i.e., aquatic, wetland, grassland, and/or coastal habitats) which are not present at the project site. As noted above, portions of the project site are currently developed and the site is characterized by large a high level of disturbance. In addition, the project site is located within an urban area and is surrounded by existing development. Nonetheless, the project site contains on-site trees, and the Bannon Creek Preserve Trail includes trees, that provide suitable nesting habitat for migratory birds. California Fish and Game Code §3503 and the federal Migratory Bird Treaty Act (MBTA) of 1918 (16 U.S.C. 703-711) each protect most birds and their nests, including most non-migratory birds in California.

Trees on the project site have the potential to provide nesting habitat for special-status bird species, including migratory birds and raptors protected under the MBTA and Section 3503 of the California Fish and Game Code. Special-status birds have the potential to nest in trees on or adjacent to the project site and could be disturbed by construction activities should construction occur during the bird nesting season. As such, construction of the project could affect suitable nesting habitat, and a potentially significant impact to nesting and migratory birds, including the Swainson's hawk, could occur.

Tree Removal

California Tree and Landscape Consulting, Inc. conducted a tree survey and prepared an Arborist Report for the project site. According to the Arborist Report, 54 total trees are proposed for removal to facilitate implementation of the proposed project, including both street trees and private protected trees. As noted above, eight private protected trees would require removal as part of the proposed project. Without the implementation of the recommendations included in the Arborist Report, a potentially significant impact could occur related to the removal and/or damage to protected trees.

Conclusion

Based on the above, development of the proposed project could result in a potentially significant impact to the Swainson's hawk and other nesting or migratory birds. In addition, a potentially significant impact could occur related to the removal of nine protected trees during grading and construction including street trees such as red oak and valley oak. However, with the implementation of Mitigation Measures 3-1, 3-2, and 3-3, the *effect can be mitigated to less than significant*.

Question C

Currently, the project site is developed with existing structures, parking areas, and associated improvements. Residential development surrounds the northern, eastern, and southern boundaries of the project site. Existing water bodies or features, such as rivers, creeks, or natural ditches do not exist on the project site. According to the National Wetlands Inventory, the area immediately west of the project site is identified as riverine habitat associated with the First Bannon Slough.⁷ However, implementation of the project would not impinge upon the riparian habitat associated with the First Bannon Slough.

Because the project site does not contain existing water body features such as rivers, creeks, or natural ditches, the proposed project would not have a substantially adverse effect on any sensitive protected wetlands. Therefore, the proposed project would have *no additional significant environmental effect* beyond what was previously evaluated in the Master EIR.

MITIGATION MEASURES

Implementation of Mitigation Measures 3-1 through 3-3 below would reduce the impacts identified above related to the Swainson's hawk, Migratory Birds and other raptors protected under the MBTA, and private protected trees per the City's Tree Ordinance to a *less-than-significant* level.

Swainson's Hawk, Migratory Birds, and Other Raptors Protected Under the MBTA

If tree removal or construction activities on the project site are to begin during the nesting 3-1 season for raptors or other protected bird species in the region (generally February 15-September 15), a qualified biologist shall be retained by the project applicant to conduct pre-construction surveys in areas of suitable nesting habitat for common raptors (including Swainson's hawk) and other bird species protected by the MBTA or California Fish and Game Code located within 500 feet of project activity. Surveys shall be conducted no more than 10 days before tree removal or ground disturbance is expected to occur. The preconstruction surveys shall be submitted to the City's Community Development Department. If active nests are not found, further mitigation is not required. If active nests are found, the construction contractor shall avoid impacts on such nests by establishing a no-disturbance buffer around the nest. The appropriate buffer size for all nesting birds shall be determined by a qualified biologist, but shall extend at least 50 feet from the nest. Buffer size will vary depending on site-specific conditions, the species of nesting bird, nature of the project activity, the extent of existing disturbance in the area, visibility of the disturbance from the nest site, and other relevant circumstances.

Construction activity shall not occur within the buffer area of an active nest until a qualified biologist confirms that the chicks have fledged and are no longer dependent on the nest, or the nesting cycle has otherwise completed. Monitoring of the nest by a qualified biologist during construction activities shall be required if the activity has the potential to adversely affect the nest. The qualified biologist shall determine the status of the nest at least weekly during the nesting season. If construction activities cause the nesting bird to vocalize, make defensive flights at intruders, get up from a brooding position, or fly off the nest, then the no-disturbance shall be increased until the agitated behavior ceases.

Protected Trees

3-2 Prior to issuance of grading permits, the plans shall note tree protection requirements stated within the Arborist Report prepared for the project. The measures shall be reflected on the grading plans, subject to review and approval by the City's Community Development Department.

⁷ National Wetlands Inventory. Wetlands Mapper. Available at: https://www.fws.gov/wetlands/data/mapper.html. Accessed July 2021.
3-3 Prior to issuance of a grading permit, the project applicant shall comply with tree permit requirements in effect at the time of project approval for removal, pruning, or soil disturbance within the canopy dripline of a private protected tree or City Street Tree. In addition, the following measures shall be implemented to reduce impacts from the removal of City Street Trees:

- a) Replacement trees for City Street Trees shall be replanted within the City right-ofway in coordination with the City's Urban Forester. If replacement trees for City Street Trees cannot be accommodated in the City's right-of-way, they shall be planted on site and incorporated into the project landscape plan or be planted at another off-site location at the City's direction.
- b) Replacement plantings shall consist of shade tree species recommended by the Urban Forestry Director.
- c) Tree planting shall comply with the City's landscaping requirements (City Code Sections 17.612.010 and 17.612.040).
- d) Canopy or root pruning of any retained City Street Trees to accommodate construction and/or fire lane access shall be conducted according the American National Standards Institute (ANSI) standards and the International Society of Arboriculture (ISA) best management practices (BMPs) All City Street Trees shall be protected from construction-related impacts pursuant to Sacramento City Code Chapter 12.56).

The aforementioned measures shall be reflected on the grading plans, subject to review and approval by the City's Community Development Department.

FINDINGS

All additional significant environmental effects of the project relating to Biological Resources can be mitigated to a less-than-significant level.

Issues:		Effect will be studied in the EIR	Effect can be mitigated to less than significant	No additional significant environmental effect
4. <u>CUL</u> Would	TURAL RESOURCES the project:			
A)	Cause a substantial adverse change in the significance of a historical or archaeological resource as defined in § 15064.5?		Х	
B)	Directly or indirectly destroy a unique paleontological resource?		Х	
C)	Disturb any human remains?		Х	

ENVIRONMENTAL SETTING

The City of Sacramento and the surrounding area are known to have been occupied by Native American groups for thousands of years prior to settlement by non-Native peoples. Archaeological materials, including human burials, have been found throughout the City. Human burials outside of formal cemeteries often occur in prehistoric contexts. Areas of high sensitivity for archaeological resources, as identified in the 2035 General Plan Background Report, are located within close proximity to the Sacramento and American rivers and other watercourses.

The 2035 General Plan land use diagram designates a wide swath of land along the American River as Parks, which limits development and impacts on sensitive prehistoric resources. High sensitivity areas may be found in other areas related to the ancient flows of the rivers, with differing meanders than found today. However, all such areas are outside of the immediate vicinity of the project site. Recent discoveries during infill construction in downtown Sacramento have shown that the downtown area is highly sensitive for both historic- and prehistoric-period archaeological resources. Native American burials and artifacts were found in 2005 during construction of the New City Hall and historic period archaeological resources are abundant downtown due to the evolving development of the area and, in part, to the raising of the surface street level in the 1860s and 1870s, which created basements out of the first floors of many buildings.

Currently, the majority of the project site is developed with existing structures, parking areas, and associated improvement's affiliated with the Natomas Sports Club. Additionally, the western portion of the project site consists of trees and shrubs associated with the Bannon Creek Preserve Trail. The entirety of the project site has been subject to extensive ground disturbances as a result of prior grading activities and existing development. Further, due to the age of the buildings, the existing on-site structures are not considered historic.

STANDARDS OF SIGNIFICANCE

For purposes of this Initial Study, cultural resource impacts may be considered significant if the proposed project would result in one or more of the following:

- Cause a substantial change in the significance of a historical or archaeological resource as defined in CEQA Guidelines Section 15064.5; or
- Directly or indirectly destroy a unique paleontological resource; or
- A substantial adverse change in the significance of such resources.

SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES

The Master EIR evaluated the potential effects of development under the 2035 General Plan on prehistoric and historic resources. See Chapter 4.4.

General Plan policies identified as reducing such effects call for identification of resources on project sites (Policy HCR 2.1.1), implementation of applicable laws and regulations (Policy HCR 2.1.2), early consultation with owners and land developers to minimize effects (Policy HCR 2.1.10) and encouragement of adaptive reuse of historic resources (Policy HCR 2.1.14). Demolition of historic resources is deemed a last resort. (Policy HCR 2.1.15)

The Master EIR concluded that implementation of the 2035 General Plan would have a significant and unavoidable effect on historic resources and archeological resources. (Impacts 4.4-1,2)

ANSWERS TO CHECKLIST QUESTIONS

Questions A through C

The approximately 9.06-acre project site includes existing development, parking areas, and associated improvements. The proposed project would include the construction and operation of a multi-family development consisting of 190 units distributed throughout 10 three-story buildings The proposed project would also include the demolition of the existing building, tennis courts, swimming pools, and associated facilities, as well as modification to the site's access points, and new on-site improvements.

To identify any known cultural resources, a records search of the California Historic Resources System (CHRIS) was performed by the North Central Information Center (NCIC) for cultural resource site records and survey reports within the project area. According to the CHRIS search, the site has a low potential for the discovery of prehistoric-period cultural resources. Additionally, a search of the Sacred Lands File maintained by the Native American Heritage Commission (NAHC) was conducted and returned negative results for the presence of known Native American sacred sites in the immediate project vicinity.

Given the disturbed nature of the project site, surface cultural resources are not likely to be found on-site during grading and construction activities. However, due to the predominant historic theme of the region as a whole, which includes thousands of years of occupation by Native American groups prior to non-Native peoples settling in the region, the possibility exists that previously unknown resources could be encountered during ground-disturbing activities associated with development of the project. Therefore, the proposed project would have a potentially significant impact related to damaging or destroying prehistoric cultural resources. However, with implementation of Mitigation Measure 4-1, the *effect can be mitigated to less than significant*.

MITIGATION MEASURES

Implementation of the following mitigation measures would reduce the above impact to a *less-than-significant* level.

4-1 In the Event that Cultural Resources are Discovered During Construction, Implement Procedures to Evaluate Cultural Resources and Implement Avoidance and Minimization Measures to Avoid Significant Impact.

If archaeological resources, or paleontological resources, are encountered in the project area during construction, the following performance standards shall be met prior to continuance of construction and associated activities that may result in damage to or destruction of cultural resources: • Each resource will be evaluated for California Register of Historical Resources (CRHR) eligibility through application of established eligibility criteria (California Code of Regulations 15064.636), in consultation with consulting Native American Tribes.

If a cultural resource is determined to be eligible for listing on the CRHR, the City will avoid damaging effects to the resource in accordance with California PRC Section 21084.3, if feasible. If the City determines that the project may cause a significant impact to a cultural resource, and measures are not otherwise identified in the consultation process, the following are examples of mitigation capable of avoiding or substantially lessening potential significant impacts to a cultural resource or alternatives that would avoid significant impacts to the resource. These measures may be considered to avoid or minimize significant adverse impacts and constitute the standard by which an impact conclusion of less-than significant may be reached:

- Avoid and preserve resources in place, including, but not limited to, planning construction to avoid the resources and protect the cultural and natural context, or planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.
- Treat the resource with culturally appropriate dignity taking into account the cultural values and meaning of the resource, including, but not limited to, the following:
 - Protect the cultural character and integrity of the resource.
 - Protect the traditional use of the resource.
 - Protect the confidentiality of the resource.
 - Establish permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or using the resources or places.
 - Rebury the resource in place.
 - Protect the resource.

Avoidance and preservation in place is the preferred manner of mitigating impacts to archaeological resources and paleontological resources will be accomplished, if feasible, by several alternative means, including:

- Planning construction to avoid cultural resources, archaeological sites and/ or other resources; incorporating sites within parks, green-space or other open space; covering archaeological sites; deeding a site to a permanent conservation easement; or other preservation and protection methods agreeable to consulting parties and regulatory authorities with jurisdiction over the activity.
- The construction contractor(s) will install and maintain protective fencing throughout construction to avoid the site during all remaining phases of construction. The area will be demarcated as an "Environmentally Sensitive Area".

To implement these avoidance and minimization standards, the following procedures shall be followed in the event of the discovery of an archaeological or paleontological resource:

At the developer's expense, the City shall coordinate the investigation of the find with a qualified (meeting the Secretary of the Interior's Qualification Standards for Archaeology) archaeologist approved by the City. As part of the site investigation and resource assessment, the City and the archaeologist shall assess the significance of the find, make recommendations for further evaluation and treatment as necessary and provide proper management recommendations should potential impacts to the resources be determined by the City to be significant. A written report detailing the site assessment, coordination activities, and management recommendations shall be provided to the City representative

by the qualified archaeologist. These recommendations will be documented in the project record.

 The City shall consider management recommendations for tribal cultural resources, including Native American archaeological resources, that are deemed appropriate, including resource avoidance or, where avoidance is infeasible in light of project design or layout or is unnecessary to avoid significant effects, preservation in place or other measures. The contractor shall implement any measures deemed by the City to be necessary and feasible to avoid or minimize significant impacts to the cultural resources.

FINDINGS

All additional significant environmental effects of the project relating to Cultural Resources can be mitigated to a less-than-significant level.

Issues:	Effect will be studied in the EIR	Effect can be mitigated to less than significant	No additional significant environmental effect
5. <u>ENERGY</u>			
Would the project:			
 A) Result in a potentially significant environmental impact due to wasteful. Inefficient, or unnecessary consumption of energy, or wasteful use of energy resources, during project construction or operation? 			х
B) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?			Х

ENVIRONMENTAL SETTING

Sacramento Municipal Utility District (SMUD) is a community-owned and not-for-profit utility that provides electric services to 900 square miles, including most of Sacramento County (SMUD 2020). Pacific Gas and Electric (PG&E) is an inventory-owned utility that provides electric and natural gas services to approximately 16 million people within a 70,000-square-mile service area in both northern and central California (PG&E 2020). SMUD is the primary electricity supplier, and PG&E is the primary natural gas supplier for the City of Sacramento and the project area.

Energy demand related to the proposed project would include energy directly consumed for space heating and cooling and proposed electric facilities and lighting. Indirect energy consumption would be associated with the generation of electricity at power plants. Transportation-related energy consumption includes the use of fuels and electricity to power cars, trucks, and public transportation. Energy would also be consumed by equipment and vehicles used during project construction and routine maintenance activities.

Energy Policy and Conservation Act, and CAFE Standards

The Energy Policy and Conservation Act of 1975 established nationwide fuel economy standards to conserve oil. Under this act, the National Highway Traffic and Safety Administration, is responsible for revising existing fuel economy standards and establishing new vehicle economy standards. The Corporate Average Fuel Economy program was established to determine vehicle manufacturer compliance with the government's fuel economy standards. Three Energy Policy Acts have been passed, in 1992, 2005, and 2007, to reduce dependence on foreign petroleum, provide tax incentives for alternative fuels, and support energy conservation.

Energy Policy Act of 1992 and 2005

The Energy Policy Act of 1992 (EPAct) was passed to reduce the country's dependence on foreign petroleum and improve air quality. EPAct includes several parts intended to build an inventory of alternative fuel vehicles (AFVs) in large, centrally fueled fleets in metropolitan areas. EPAct requires certain federal, state, and local government and private fleets to purchase a percentage of light-duty AFVs capable of running on alternative fuels each year. In addition, financial incentives are also included in EPAct. Federal tax deductions are allowed for businesses and individuals to cover the incremental cost of AFVs. States are also required by the act to consider a variety of incentive programs to help promote AFVs. The Energy Policy Act of 2005 provides renewed and expanded tax credits for electricity generated by qualified energy sources, such as landfill gas; provides bond financing, tax incentives, grants, and loan guarantees for clean renewable energy and rural community electrification; and establishes a federal purchase requirement for renewable energy.

State of California Energy Efficiency Action Plan

The 2019 California Energy Efficiency Action Plan has three primary goals for the state: double energy efficiency savings by 2030 relative to a 2015 base year (per SB 350), expand energy efficiency in low-income and disadvantaged communities, and reduce greenhouse gas emissions from buildings. This plan provides guiding principles and recommendations on how the state would achieve those goals. These recommendations include:

- identifying funding sources that support energy efficiency programs,
- identifying opportunities to improve energy efficiency through data analysis,
- using program designs as a way to encourage increased energy efficiency on the consumer end,
- improving energy efficiency through workforce education and training, and
- supporting rulemaking and programs that incorporate energy demand flexibility and building decarbonization. (CEC 2019)

California Green Building Standards

The energy consumption of new residential and nonresidential buildings in California is regulated by the state's Title 24, Part 6, Building Energy Efficiency Standards (California Energy Code). The California Energy Code was established by the California Energy Commission (CEC) 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 non-residential buildings. CEC updates the California Energy Code every 3 years with more stringent design requirements for reduced energy consumption, which results in the generation of fewer GHG emissions.

The 2019 California Energy Code was adopted by CEC on May 9, 2018 and applies to projects constructed after January 1, 2020. The 2019 California Energy Code is designed to move the State closer to its zeronet energy goals for new residential development. It does so by requiring all new residences to install enough renewable energy to offset all the electricity needs of each residential unit (California Code of Regulations (CCR), Title 24, Part 6, Section 150.1(c)4). CEC estimates that the combination of mandatory on-site renewable energy and prescriptively required energy efficiency standards will result in a 53 percent reduction in new residential construction as compared to the 2016 California Energy Code. Non-residential buildings are anticipated to reduce energy consumption by 30 percent as compared to the 2016 California Energy Code primarily through prescriptive requirements for high-efficiency lighting (CEC 2018). The Energy Code is 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 the California Energy Code.

Transportation-Related Regulations

Various regulatory and planning efforts are aimed at reducing dependency on fossil fuels, increasing the use of alternative fuels, and improving California's vehicle fleet. SB 375 aligns regional transportation planning efforts, regional GHG emission reduction targets, and land use and housing allocation. CARB, in consultation with the metropolitan planning organizations, provides each affected region with reduction targets for GHGs emitted by passenger cars and light trucks in their respective regions for 2020 and 2035.

Pursuant to AB 2076 (Chapter 936, Statutes of 2000), CEC and the CARB prepared and adopted a joint agency report in 2003, Reducing California's Petroleum Dependence. Included in this report are recommendations to increase the use of alternative fuels to 20 percent of on-road transportation fuel use by 2020 and 30 percent by 2030, significantly increase the efficiency of motor vehicles, and reduce per capita vehicle miles traveled (VMT) (CEC and CARB 2003).

AB 1007 (Chapter 371, Statues of 2005) required CEC to prepare the State Alternative Fuels Plan to increase the use of alternative fuels in California.

In January 2012, CARB approved the Advanced Clean Cars program which combines the control of GHG emissions and criteria air pollutants, as well as requirements for greater numbers of zero-emission vehicles, into a single package of standards for vehicle model years 2017 through 2025. The program's zero-emission vehicle regulation requires battery, fuel cell, and/or plug-in hybrid electric vehicles to account for up to 15 percent of California's new vehicle sales by 2025.

On August 2, 2018, the National Highway Traffic Safety Administration (NHTSA) and EPA proposed the Safer Affordable Fuel-Efficient Vehicles Rule (SAFE Rule). Part One of the SAFE Rule revokes a waiver granted by EPA to the State of California under Section 209 of the CAA to enforce more stringent emission standards for motor vehicles than those required by EPA for the explicit purpose of GHG emission reduction, and indirectly, criteria air pollutant and ozone precursor emission reduction. On March 31, 2020, Part Two of the SAFE Rule was published and would amend existing CAFE and tailpipe CO₂ emissions standards for passenger cars and light trucks and establish new standards covering model years 2021 through 2026.

GHG Reduction Regulations

Several regulatory measures such as AB 32 and the Climate Change Scoping Plan, EO B-30-15, SB 32, and AB 197 were enacted to reduce GHGs and have the co-benefit of reducing California's dependency on fossil fuels and making land use development and transportation systems more energy efficient.

Renewable Energy Regulations

SB X1-2 of 2011 requires all California utilities to generate 33 percent of their electricity from renewables by 2020. SB X1-2 also requires the renewable electricity standard to be met increasingly with renewable energy that is supplied to the California grid from sources within, or directly proximate to, California. SB X1-2 mandates that renewables from these sources make up at least 50 percent of the total renewable energy for the 2011-2013 compliance period, at least 65 percent for the 2014-2016 compliance period, and at least 75 percent for 2016 and beyond.

SB 100, signed in September 2018, requires that all California utilities, including independently-owned utilities, energy service providers, and community choice aggregators, supply 44 percent of retail sales from renewable resources by December 31, 2024, 50 percent of all electricity sold by December 31, 2026, 52 percent by December 31, 2027, and 60 percent by December 31, 2030. The law also requires that eligible renewable energy resources and zero-carbon resources supply 100 percent of retail sales of electricity to California end-use customers and 100 percent of electricity procured to serve all State agencies by December 31, 2045.

Energy Independence and Security Act of 2007

The Energy Independence and Security Act of 2007 is designed to improve vehicle fuel economy and help reduce U.S. dependence on oil. It represents a major step forward in expanding the production of renewable fuels, reducing dependence on oil, and confronting global climate change. The Energy Independence and Security Act of 2007 increases the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard requiring fuel producers to use at least 36 billion gallons of biofuel in 2022, which represents a nearly five-fold increase over current levels; and reduces U.S. demand for oil by setting a national fuel economy standard of 35 miles per gallon by 2020—an increase in fuel economy standards of 40 percent. By addressing renewable fuels and the CAFE standards, the Energy Independence and Security Act of 2007 builds upon progress made by the Energy Policy Act of 2005 in setting out a comprehensive national energy strategy for the 21st century.

SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES

Structures built would be subject to Titles 20 and 24 of the California Code of Regulations, which reduce demand for electrical energy by implementing energy-efficient standards for residential and non-residential

buildings. The 2035 General Plan includes policies (see 2035 General Plan Energy Resources Goal U 6.1.1) and related policies to encourage energy-efficient technology by offering rebates and other incentives to commercial and residential developers, coordination with local utility providers and recruitment of businesses that research and promote energy conservation and efficiency.

The Master EIR discussed energy conservation and relevant General Plan policies in section 6.3 (page 6-3). The discussion concluded that with implementation of the General Plan policies and energy regulation (e.g., Title 24) development allowed in the General Plan would not result in the inefficient, wasteful or unnecessary consumption of energy.

The Master EIR concluded that implementation of state regulation, coordination with energy providers and implementation of General Plan policies would reduce the potential impacts from construction of new energy production or transmission facilities to a less-than-significant level.

Sacramento Climate Action Plan

The Sacramento CAP was adopted on February 14, 2012 by the Sacramento City Council and was incorporated into the 2035 General Plan. The Sacramento CAP includes GHG emission reduction targets, strategies, and implementation measures developed to help the City reach these targets. Reduction strategies address GHG emissions associated with transportation and land use, energy, water, waste management and recycling, agriculture, and open space.

STANDARDS OF SIGNIFICANCE

For the purposes of this Initial Study, an impact is considered significant if the proposed project would:

- Result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy, or wasteful use of energy resources, during project construction or operation; and/or
- Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

ANSWERS TO CHECKLIST QUESTIONS

Questions A and B

Neither federal or State law nor the State CEQA Guidelines establish thresholds that define when energy consumption is considered wasteful, inefficient and unnecessary. Compliance with CCR Title 24 Energy Efficiency Standards would result in energy-efficient buildings. However, compliance with building codes does not adequately address all potential energy impacts during construction and operation. For example, energy would be required to transport people and goods to and from the project site. Energy use is discussed by anticipated use type below.

Construction

Construction of the proposed project would involve on-site energy demand and consumption related to use of oil in the form of gasoline and diesel fuel for construction worker vehicle trips, hauling and materials delivery truck trips, and operation of off-road construction equipment. In addition, diesel-fueled portable generators may be necessary to provide additional electricity demands for temporary on-site lighting, welding, and for supplying energy to areas of the sites where energy supply cannot be met via a hookup to the existing electricity grid.

Even during the most intense period of construction, due to the different types of construction activities (e.g., site preparation, grading, building construction), only portions of the project site and off-site improvement areas would be disturbed at a time, with operation of construction equipment occurring at different locations on the project site, rather than a single location. In addition, all construction equipment and operation thereof would be regulated per the CARB In-Use Off-Road Diesel Vehicle Regulation. The

In-Use Off-Road Diesel Vehicle Regulation is intended to reduce emissions from in-use, off-road, heavyduty diesel vehicles in California by imposing limits on idling, requiring all vehicles to be reported to CARB, restricting the addition of older vehicles into fleets, and requiring fleets to reduce emissions by retiring, replacing, or repowering older engines, or installing exhaust retrofits. The In-Use Off-Road Diesel Vehicle Regulation would subsequently help to improve fuel efficiency and reduce GHG emissions. Technological innovations and more stringent standards are being researched, such as multi-function equipment, hybrid equipment, or other design changes, which could help to reduce demand on oil and emissions associated with construction.

The CARB has recently prepared the 2017 Climate Change Scoping Plan Update (2017 Scoping Plan), which builds upon previous efforts to reduce GHG emissions and is designed to continue to shift the California economy away from dependence on fossil fuels. Appendix B of the 2017 Scoping Plan includes examples of local actions (municipal code changes, zoning changes, policy directions, and mitigation measures) that would support the State's climate goals. The examples provided include, but are not limited to, enforcing idling time restrictions for construction vehicles, utilizing existing grid power for electric energy rather than operating temporary gasoline/diesel-powered generators, and increasing use of electric and renewable fuel-powered construction equipment. The CARB Diesel Vehicle Regulation described above, with which the Project must comply, would be consistent with the intention of the 2017 Scoping Plan and the recommended actions included in Appendix B of the 2017 Scoping Plan.

Based on the above, the temporary increase in energy use occurring during construction of the proposed project would not result in a significant increase in peak or base demands or require additional capacity from local or regional energy supplies. In addition, construction activities would be required to comply with all applicable regulations related to energy conservation and fuel efficiency, which would help to reduce the temporary increase in demand.

Operational

The proposed project would be subject to all relevant provisions of the most recent update of the CBSC. including the Building Energy Efficiency Standards. Adherence to the most recent CALGreen Code, the Building Energy Efficiency Standards, and all applicable regulations included within the City's Climate Action Plan would ensure that the proposed structures would consume energy efficiently through the incorporation of such features as efficient water heating systems, high performance attics and walls, and high efficacy lighting. Required compliance with the CBSC would ensure that the building energy use associated with the project would not be wasteful, inefficient, or unnecessary. In addition, electricity supplied to the project by SMUD would comply with the State's Renewables Portfolio Standard, which requires investor-owned utilities, electric service providers, and community choice aggregators to increase procurement from eligible renewable energy resources to 33 percent of total procurement by 2020 and to 60 percent by 2030. Pursuant to the 2019 CBSC, the proposed project would be required to incorporate rooftop solar panels to meet the electricity demands of future residents. As a result, a portion of the electricity consumed during project operations would be generated from renewable sources. It is noted that at least 50 percent of the proposed parking area would be shaded by landscaping trees (see Figure 5), which would reduce heat island effects on the project and discourage energy use associated with air conditioning and the use of HVAC systems.

With regard to transportation energy use, the proposed project would comply with all applicable regulations associated with vehicle efficiency and fuel economy. In addition, as discussed in Section 12, Transportation, of this Initial Study, the VMT associated with development of the proposed project is anticipated to be less than the average household VMT per capita for the region.

Conclusion

Based on the above, construction and operation of the proposed project would not result in wasteful, inefficient, or unnecessary consumption of energy resources or conflict with or obstruct a State or local plan for renewable energy or energy efficiency. Thus, implementation of the proposed project would have **no**

additional significant environmental effect related to energy beyond what was previously evaluated in the Master EIR.

MITIGATION MEASURES

None required.

FINDINGS

The project would have no additional project-specific environmental effects relating to Energy.

Issues:		Effect will be studied in the EIR	Effect can be mitigated to less than significant	No additional significant environmental effect
6. <u>GE</u> Would	OLOGY AND SOILS d the project:			
A)	Would the project allow a project to be built that will either introduce geologic or seismic hazards by allowing the construction of the project on such a site without protection against those hazards?		х	

ENVIRONMENTAL SETTING

Seismicity

The City of Sacramento is not located within an Alquist-Priolo Earthquake Fault Zone, and known faults do not exist within the Policy Area. Therefore, fault rupture within the Policy Area is highly unlikely and, consequently, implementation of buildout of the General Plan, would not expose people or structures to the possibility of fault rupture.

Nonetheless, the City may be subject to seismic hazards caused by major seismic events outside the City. Per the Master EIR, the greatest earthquake threat to the City comes from earthquakes along Northern California's major faults, including the San Andreas, Calaveras, and Hayward faults. Ground shaking on any of the aforementioned faults could cause shaking within the City to an intensity of 5 to 6 moment magnitude (Mw). However, as noted above, the City is not within an Alquist-Priolo Earthquake Fault Zone and does not include any known active faults. As such, the City's seismic ground-shaking hazard is low, ranking among the lowest in the State. Additionally, the City is in Seismic Zone 3. Accordingly, any future development, rehabilitation, reuse, or possible change of use of a structure would be required to comply with all design standards applicable to Seismic Zone 3.

Topography

Terrain in the City of Sacramento features very little relief and the potential for slope instability within the City is minor due to the relatively flat topography of the area. The topography of the project site is relatively level, and is not a risk of seismically-induced landslides. Due to the relatively flat topography of the area, the potential for slope instability within the City and at the project site is minor.

Regional Geology

The City of Sacramento is located in the Great Valley Geomorphic Province. The Great Valley Geomorphic Province consists of a deep, northwest-trending sedimentary basin that borders the east of the Coast Ranges. The Great Valley Geomorphic Province is a flat alluvial plain approximately 50 miles wide and 400 miles long in the central portion of California. The northern portion of the Great Valley Geomorphic Province is the Sacramento Valley drained by the Sacramento River, and the southern part is the San Joaquin Valley drained by the San Joaquin River. The valley is surrounded by the Sierra Nevada to the east, the Tehachapi Mountains to the south, Coastal Range to the west, and Cascade Range to the north.

STANDARDS OF SIGNIFICANCE

For the purposes of this Initial Study, an impact is considered significant if it allows a project to be built that will either introduce geologic or seismic hazards by allowing the construction of the project on such a site without protection against those hazards.

SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES

Chapter 4.5 of the Master EIR evaluated the potential effects related to seismic hazards, underlying soil characteristics, slope stability, erosion, existing mineral resources and paleontological resources in the City. Implementation of identified policies in the 2035 General Plan reduced all effects to a less-than-significant level. Policy EC 1.1.1 requires regular review of the City's seismic and geologic safety standards, and Policy EC 1.1.2 requires geotechnical investigations for project sites to identify and respond to geologic hazards, when present.

ANSWERS TO CHECKLIST QUESTIONS

Question A

The City of Sacramento's topography is relatively flat, the City is not located within an Alquist-Priolo Earthquake Fault Zone, and the City is not located in the immediate vicinity of an active fault. However, Sacramento is located in a moderate seismically-active region. The 2035 General Plan indicates that ground shaking would occur periodically in Sacramento as a result of distant earthquakes. The 2035 General Plan further states that the earthquake resistance of any building is dependent on an interaction of seismic frequency, intensity, and duration with the structure's height, condition, and construction materials. Although the project site is not located near any active or potentially active faults, strong ground shaking could occur at the project site during a major earthquake on any of the major regional faults.

The proposed project would include the development of a 190-unit apartment complex. Due to the seismic activity in the State, construction is required to comply with Title 24 of the Uniform Building Code (UBC). Chapter 15.20 of the Sacramento City Code adopts the UBC and mandates compliance; therefore, all new construction and modifications to existing structures within the City are subject to the requirements of the UBC. The UBC contains standards to ensure that all structures and infrastructure are constructed to minimize the impacts from seismic activity, to the extent feasible, including exposure of people or structures to substantial, adverse effects as a result of strong groundshaking, seismic-related ground failure, liquefaction, lateral spreading, landslides, or lurch cracking. As a result, seismic activity in the area of the proposed development would not expose people or structures to substantial, adverse effects as a result of strong groundshaking and seismic-related ground failure.

In addition, issues related to fault rupture, seismic groundshaking, and seismically induced ground failures are addressed in the City's adopted Standard Specifications for Public Works Construction (2007), which requires construction contractors to build to City standards related to structural integrity, thus, ensuring that erosion and unstable soil conditions do not occur as a result of construction. The construction specification document contains provisions that require contractors to be responsible for damage caused during construction and to be responsible for the repair of such damages (e.g., settling of adjacent land and structures). The proposed project would require heavy construction, and individual components used in the construction of the project would be constructed to industry-provided design specifications and requirements, including the American Society for Testing and Materials (ASTM) standards.

Soils typically found most susceptible to liquefaction are saturated and loose, fine to medium grained sand. Liquefaction occurs where surface soils become saturated with water and become mobile during groundshaking caused by a seismic event. When soils subject to liquefaction move, the foundations of structures move as well which can cause structural damage. Liquefaction generally occurs below the water table, but could move upward through soils after development. The Master EIR identified soils subject to liquefaction to be found within areas primarily within the Central City, Pocket, and North and South Natomas Community. However, the Master EIR recommends using site-specific geotechnical studies to determine if in fact, a specific location may be subject to liquefaction hazard.

In 2015, a Geotechnical Exploration Report was prepared for the multi-family development directly south of the project site by KC Engineering Consultants (see Appendix C).⁸ According to the United States Geological Survey (USGS) Web Soil Survey, the soils found on the project site and the multi-family development south of the site are identical.⁹ Therefore, the conclusion and recommendations included within the 2015 Geotechnical Exploration Report are applicable to the Sutter Greens 2.0 project site.

As part of the 2015 Geotechnical Exploration Report, KC Engineering Consultants performed a site reconnaissance and drilled five exploratory test borings of subsurface soils at the project site. Site soils were found to be subject to heave and shrink movements with changes in moisture content. The movement of site soils may affect foundations, concrete flatwork, and pavements. The varying layers of firm, stiff material creates the potential for total settlement to be as much as an inch and a potential differential settlement of about half an inch. The groundwater levels encountered in the borings ranged from 15.5 to 16 feet below the ground surface. Fluctuations in the groundwater level could occur with variations in seasonal rainfall, subsurface stratification, and irrigation on the site and vicinity. However, the 2015 Geotechnical Exploration Report determined that the site is feasible for construction given that recommendations presented in the report are incorporated in the project design. Furthermore, development of the project site would be built to City of Sacramento Building Code, UBC Standards, and California Building Code Standards.

Based on the above, the site directly south of the project site was found to have a presence of moderately expansive near surface soil conditions, creating the potential for consolidation settlement and the potential for liquefaction to occur. Because the same soil type exists on the project site and the site which was evaluated in the 2015 Geotechnical Report, the project site would also have the potential for expansive soils, consolidation, and liquefaction. As such, without further investigation and preparation of site-specific soil testing, the proposed project could potentially introduce geologic or seismic hazards by allowing the construction of the project site without protection against settlement and liquefaction hazards, and a potentially significant impact could occur. However, with implementation of Mitigation Measure 6-1, the *effect can be mitigated to less than significant*.

MITIGATION MEASURES

Implementation of the following mitigation measure would reduce the above impact to a *less-than-significant* level.

6-1 Prior to issuance of a grading permit, the applicant shall retain the services of a qualified geologist to prepare a design-level Geotechnical Report for the project site. The grading plans shall incorporate all geotechnical recommendations specified in the Geotechnical Report prepared for the proposed project. All grading and foundation plans for the development must be reviewed and approved by the City Engineer and Chief Building Official prior to issuance of grading and building permits in order to ensure that recommendations in the Geotechnical Report are properly incorporated and utilized in the project design.

FINDINGS

All additional significant environmental effects of the project relating to Geology and Soils can be mitigated to a less-than-significant level.

⁸ KC Consultants. Geotechnical Exploration Report on Proposed Natomas Park Drive Apartments. June 2015.

⁹ United States Department of Agriculture. *Natural Resources Conservation Science*. Available at: <u>https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx</u>. Accessed May 2021.

SUTTER GREENS 2.0 PROJECT Initial Study/Mitigated Negative Declaration

Issues:	Effect will be studied in the EIR	Effect can be mitigated to less than significant	No additional significant environmental effect
7. <u>HAZARDS</u>			
Would the project:			
A) Expose people (e.g., residents, pedest construction workers) to ex contaminated soil during constru- activities?	rians, isting uction		Х
B) Expose people (e.g., residents, pedest construction workers) to asbestos-conta materials or other hazardous materials?	rians, aining		Х
C) Expose people (e.g., residents, pedest construction workers) to ex contaminated groundwater during dewa activities?	rians, isting tering		х

ENVIRONMENTAL AND REGULATORY SETTING

Federal regulations and regulations adopted by the SMAQMD apply to the identification and treatment of hazardous materials during demolition and construction activities. Failure to comply with these regulations respecting asbestos may result in a Notice of Violation being issued by the AQMD and civil penalties under state and/or federal law, in addition to possible action by U.S. EPA under federal law.

Federal law covers a number of different activities involving asbestos, including demolition and renovation of structures (40 CFR § 61.145).

SMAQMD Rule 902 and Commercial Structures

The work practices and administrative requirements of Rule 902 apply to all commercial renovations and demolitions where the amount of Regulated Asbestos-Containing Material (RACM) is greater than:

- 260 lineal feet of RACM on pipes, or
- 160 square feet of RACM on other facility components, or
- 35 cubic feet of RACM that could not be measured otherwise.

The administrative requirements of Rule 902 apply to any demolition of commercial structures, regardless of the amount of RACM. To determine the amount of RACM in a structure, Rule 902 requires that a survey be conducted prior to demolition or renovation unless:

- The structure is otherwise exempt from the rule, or
- Any material that has a propensity to contain asbestos (so-called "suspect material") is treated as
 if it is RACM.

Surveys must be done by a licensed asbestos consultant and require laboratory analysis. Asbestos consultants are listed in the phone book under "Asbestos Consultants." Large industrial facilities may use non-licensed employees if those employees are trained by the U.S. EPA. Questions regarding the use of non-licensed employees should be directed to the AQMD.

A Phase I Environmental Site Assessment (ESA) was prepared for the proposed project by Analytical Environmental Services in January 2021 (see Appendix D).¹⁰ The Phase I ESA included a review of

¹⁰ Analytical Environmental Services. *Phase I Environmental Site Assessment for Demmon Partners 2450 Natomas Park Drive.* January 2021.

previous land uses and history of the subject property, databases for records of known storage tanks sites or hazardous materials, and available information from federal, State, or local agency lists of potentially hazardous wastes or materials on site. In addition, a site reconnaissance was conducted on December 22, 2020. The purpose of the site reconnaissance was to examine the subject property for obvious physical indications of improper hazardous substances or evidence of petrochemical disposal, such as stained soil, stressed vegetation, sumps, partially buried drums, bulk underground and above-ground fuel storage tanks, and other obvious signs of hazardous materials involvement.

A Geotechnical Exploration Report was prepared for the multi-family development south of the project site by KC Engineering Consultants in which subsurface conditions were explored and tested. Surficial soil borings were placed on site and groundwater levels encountered in the borings ranged from 15.5 to 16 feet below ground surface. In addition, an Asbestos Inspection and Report was prepared by Regas Group Environmental Consultants.¹¹

STANDARDS OF SIGNIFICANCE

For the purposes of this Initial Study, an impact is considered significant if the proposed project would:

- Expose people (e.g., residents, pedestrians, construction workers) to existing contaminated soil during construction activities;
- Expose people (e.g., residents, pedestrians, construction workers) to asbestos-containing materials or other hazardous materials; or
- Expose people (e.g., residents, pedestrians, construction workers) to existing contaminated groundwater during dewatering activities.

SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES

The Master EIR evaluated effects of development on hazardous materials, emergency response and aircraft crash hazards. See Chapter 4.6. Implementation of the General Plan may result in the exposure of people to hazards and hazardous materials during construction activities, and exposure of people to hazards and hazardous materials during the life of the General Plan. Impacts identified related to construction activities and operations were found to be less than significant. Policies included in the 2035 General Plan, including PHS 3.1.1 (investigation of sites for contamination) and PHS 3.1.2 (preparation of hazardous materials actions plans when appropriate) were effective in reducing the identified impacts.

ANSWERS TO CHECKLIST QUESTIONS

Question A

Per the Master EIR, grading, excavation, and dewatering of sites for new development may expose construction workers and the public to known or previously unreported hazardous substances present in the soil or groundwater. If new development is proposed at or near a documented or suspected hazardous materials site, investigation, remediation, and cleanup of the site would be required before construction could begin. The Phase I ESA prepared for the project site searched for Recognized Environmental Concerns (RECs) that may affect future users of the subject property. RECs refer to the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products in structures on the property or into the ground, groundwater, or surface water of the property. According to the Phase I ESA, RECs were not identified on or in the immediate vicinity of the subject property that would likely pose a significant impact. Furthermore, the project site is not located on a hazardous waste facility or site with known contamination within the EnviroStor Database.¹² The closest

¹¹ Regas Group Environmental Consultants. *Asbestos Inspection and Report.* June 4, 2021.

¹² Department of Toxic Substances Control. *EnviroStor*. Available at: <u>https://www.envirostor.dtsc.ca.gov/public/map/?myaddress=Natomas%2C+California</u>. Accessed March 2021.

listed hazardous site is the Jibboom Junkyard, approximately 1.2 miles south of the project site. According to the Phase I ESA, additional subsurface hazardous materials investigations of the property are not recommended at this time.

Because the proposed project does not contain contaminated soils, and the off-site hazardous sites would not likely impact the proposed project site, impacts related to exposing people to existing contaminated soils or groundwater during construction activities would be less-than-significant. Thus, implementation of the proposed project would have **no additional significant environmental effect** related to exposing people to existing contaminated soil during construction activities beyond what was previously evaluated in the Master EIR.

Question B

Asbestos is the name for a group of naturally occurring silicate minerals that are considered to be "fibrous" and, through processing, can be separated into smaller and smaller fibers. The fibers are strong, durable, chemical resistant, and resistant to heat and fire. They are also long, thin and flexible, so they can even be woven into cloth. Because of these qualities, asbestos was considered an ideal product and has been used in thousands of consumer, industrial, maritime, automotive, scientific and building products. However, later discoveries found that, when inhaled, the material caused serious illness.

For buildings constructed prior to 1980, the Code of Federal Regulations (29 CFR 1926.1101) states that all thermal system insulation (boiler insulation, pipe lagging, and related materials) and surface materials must be designated as "presumed asbestos-containing material" unless proven otherwise through sampling in accordance with the standards of the Asbestos Hazard Emergency Response Act. Asbestos-containing materials could include, but are not limited to, plaster, ceiling tiles, thermal systems insulation, floor tiles, vinyl sheet flooring, adhesives, and roofing materials.

Lead-based paint (LBP) is defined as any paint, varnish, stain, or other applied coating that has one milligram per cubic centimeter or greater (5,000 micrograms per gram or 5,000 parts per million) of lead by federal guidelines. Lead is a highly toxic material that may cause a range of serious illnesses and, in some cases, death. In buildings constructed after 1978, LBP is unlikely to be present. Structures built prior to 1978 and especially prior to the 1960s should be expected to contain LBP.

The proposed project includes the demolition of the existing on-site facility, the Natomas Sports Club. Existing facilities within the Natomas Sports Club include a parking lot, tennis courts, outdoor covered areas, a swimming pool, and a building/fitness area. However, as noted in the Phase I ESA prepared for the project, the existing buildings were built between 1993 and 1998. As a result, asbestos and LBP are unlikely to be present in the existing structures, and demolition would not result in exposure to such hazards.

In order to confirm the absence of asbestos-containing materials (ACMs) in the existing structures, an Asbestos Inspection and Report was prepared for the proposed project. The Asbestos Inspection and Report included testing of over 70 samples of building materials for the presence of asbestos. Currently, EPA regulations classify ACMs as materials containing greater than one percent of asbestos. Based on the results of the analysis, the Asbestos Inspection and Report concluded that ACMs are not present in the existing structures. Thus, demolition of the existing building would not pose a risk to receptors related to asbestos.

In addition, the project site is not located in eastern Sacramento County and is not in an area identified as likely to contain naturally-occurring asbestos (NOA). Thus, receptors would not be exposed to NOA as a result of ground-disturbing activities associated with implementation of the proposed project.

Based on the age of the existing on-site structures and the results of the Asbestos Inspection and Result, demolition activities associated with the proposed project would not result in the exposure of people to asbestos-containing materials or other hazardous materials. Therefore, implementation of the proposed project would have *no additional significant environmental effect* related to exposing people to asbestos-containing materials or other hazardous materials beyond what was previously evaluated in the Master EIR.

Question C

According to the Geotechnical Exploration Report, groundwater levels encountered at the site ranged from 15.5 to 16 feet below the ground surface. Fluctuations in the groundwater level could occur with variations in seasonal rainfall, subsurface stratification, and irrigation on the site and vicinity. Construction activities are not expected to involve excavation to groundwater depths. Additionally, groundwater dewatering is not anticipated to be required during development of the proposed project. Furthermore, according to the Phase I ESA, groundwater on the project site has not been contaminated. Therefore, impacts related to exposing people to existing contaminated groundwater during dewatering activities would be less than significant, and construction of the proposed project would have *no additional significant environmental effect* related to groundwater contamination beyond what was previously evaluated in the Master EIR.

MITIGATION MEASURES

None required.

FINDINGS

The project would have no additional project-specific environmental effects relating to Hazards.

SUTTER GREENS 2.0 PROJECT Initial Study/Mitigated Negative Declaration

Issues:	Effect will be studied in the EIR	Effect can be mitigated to less than significant	No additional significant environmental effect
 8. <u>HYDROLOGY AND WATER QUALITY</u> Would the project: A) Substantially degrade water quality and violate any water quality objectives set by the State Water Resources Control Board, due to increases in sediments and other contaminants generated by construction and/or development of the project? 			Х
B) Substantially increase the exposure of people and/or property to the risk of injury and damage in the event of a 100-year flood?			Х

ENVIRONMENTAL SETTING

The project site is located in a highly developed area of South Natomas. Currently, the majority of the project site is developed with impervious surfaces, including buildings, parking areas, and sidewalks. The site already contains storm drainage infrastructure, which diverts runoff from the impervious surfaces on the site and into the City's storm drain main in Natomas Park Drive.

The City of Sacramento's Grading Ordinance requires that development projects comply with the requirements of the City's Stormwater Quality Improvement Plan (SQIP). The SQIP outlines the priorities, key elements, strategies, and evaluation methods of the City's Stormwater Management Program. The City's Stormwater Management Program is based on the National Pollutant Discharge Elimination System (NPDES) municipal stormwater discharge permit. The comprehensive Stormwater Management Program includes pollution reduction activities for construction sites, industrial sites, illegal discharges and illicit connections, new development, and municipal operations. In addition, before the onset of any construction activities, where the disturbed area is one acre or more in size, projects are required to obtain coverage under the NPDES General Construction Permit and include erosion and sediment control plans. BMPs may consist of a wide variety of measures taken to reduce pollutants in stormwater and other non-point source runoff. Measures that reduce or eliminate post-construction-related water quality problems range from source controls, such as reduced surface disturbance, to treatment of polluted runoff, such as detention or retention basins. The City's SQIP and the Stormwater Quality Design Manual for the Sacramento Region (Sacramento Stormwater Quality Partnership 2014) include BMPs to be implemented to mitigate impacts from new development and redevelopment projects, as well as requirements for low impact development (LID) standards.

The Federal Emergency Management Agency (FEMA) publishes Flood Insurance Rate Maps (FIRM) that delineate flood hazard zones for communities. The project site is located within an area designated as Zone A99, which is applied to areas that are subject to inundation by the one percent annual chance flood event, but will ultimately be protected upon completion of an under-construction federal flood protection system. According to FEMA, such areas are areas of special flood hazard where enough progress has been made on the construction of a protection system, such as a dike, dam, or levee, to consider the protection system complete for insurance rating purposes. Areas zoned A99 may only be rated as such when the flood protection system has reached specified statutory progress toward completion. Mandatory flood insurance requirements and floodplain management standards apply to areas rated A99.

Section 13.08.145 of the Sacramento City Municipal Code (Mitigation of drainage impacts; design and procedures manual for water, sanitary sewer, storm drainage, and water quality facilities) requires that when a property contributes drainage to the storm drain system or combined sewer system, all stormwater and surface runoff drainage impacts resulting from the improvement or development must be fully mitigated

to ensure that the improvement or development does not affect the function of the storm drain system or combined sewer system, and that an increase in flooding or in water surface elevation that adversely affects individuals, streets, structures, infrastructure, or property does not occur. The project is within the service area of the SASD fees, which are used to recover a share of SASD's cost for any new system facilities necessary to service new connections.¹³ In addition to sewer service provided by SASD, the project would also be within the SRCSD. In order to connect with the SRCSD wastewater conveyance and treatment system, developers must pay impact fees.¹⁴ In infill areas, multi-family residential customers must pay 2,701 dollars per dwelling unit.

STANDARDS OF SIGNIFICANCE

For purposes of this Initial Study, impacts to hydrology and water quality may be considered significant if construction and/or implementation of the proposed project would result in the following impacts that remain significant after implementation of general plan policies or mitigation from the 2035 General Plan Master EIR:

- Substantially degrade water quality and violate any water quality objectives set by the State Water Resources Control Board (SWRCB), due to increases in sediments and other contaminants generated by construction and/or development of the proposed project; or
- Substantially increase the exposure of people and/or property to the risk of injury and damage in the event of a 100-year flood.

SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES

Chapter 4.7 of the Master EIR evaluates the potential effects of the 2035 General Plan as they relate to surface water, groundwater, flooding, stormwater and water quality. Potential effects include water quality degradation due to construction activities (Impacts 4.7-1, 4.7-2), and exposure of people to flood risks (Impacts 4.7-3). Policies included in the 2035 General Plan, including a directive for regional cooperation (Policies ER 1.1.2, EC 2.1.1), comprehensive flood management (Policy EC 2.1.23), and construction of adequate drainage facilities with new development (Policy ER 1.1.1 to ER 1.1.10) were identified that the Master EIR concluded would reduce all impacts to a less-than-significant level.

ANSWERS TO CHECKLIST QUESTIONS

Question A

The proposed project has the potential to effect water quality during both construction and operation. Further details regarding the potential effects are provided below.

Construction

Construction activities associated with the proposed project would create the potential to degrade water quality from increased sedimentation and increased discharge (increased flow and volume of runoff) associated with storm water runoff. The SWRCB adopted a statewide general NPDES permit for stormwater discharges associated with construction activity. Dischargers whose projects disturb one or more acres of soil are required to obtain coverage under the General Permit for Discharges of Storm Water Associated with Construction Activity Construction General Permit Order 2012-0006-DWQ. Construction activity subject to the General Permit includes clearing, grading and disturbances to the ground such as stockpiling, or excavation. The proposed project would include disturbance of approximately 9.06 acres; thus, the project would be subject to the aforementioned regulations.

¹³ Sacramento Area Sewer District. *Sewer Ordinance SDI-0072*. Effective May 27, 2016.

¹⁴ Regional San. *Impact Fees.* Available at: https://www.regionalsan.com/impact-fees-businesses. Accessed March 2021.

The City's SQIP contains a Construction Element that guides implementation of the NPDES Permit for Storm Water Discharges Associated with Construction Activity. This General Construction Permit requires the development and implementation of a Storm Water Pollution Prevention Plan (SWPPP). The SWPPP should contain a site map(s) which shows the construction site perimeter, existing and proposed buildings, lots, roadways, storm water collection and discharge points, general topography both before and after construction, and drainage patterns across the project. The SWPPP must list BMPs the discharger would use to protect storm water runoff and the placement of those BMPs, Additionally, the SWPPP must contain a visual monitoring program; a chemical monitoring program for "non-visible" pollutant to be implemented if there is a failure of BMPs; and a sediment monitoring plan if the site discharges directly to a water body listed on the 303(d) list for sediment. Section A of the Construction General Permit describes the elements that must be contained in a SWPPP. Compliance with City requirements to protect storm water inlets would require the developer to implement BMPs such as the use of straw wattles, sandbags, gravel traps, and filters; erosion control measures such as vegetation and physical stabilization; and sediment control measure such as fences, dams, barriers, berms, traps, and basins. City staff inspects and enforces the erosion, sediment and pollution control requirements in accordance with City codes (Grading, Erosion and Sediment Control Ordinance).

Conformance with City regulations and permit requirements along with implementation of BMPs would ensure that construction activities of the proposed project would result in a less-than-significant impact related to water quality.

Operations

Because the project would involve demolition of the existing tennis courts and implementation of new landscaped areas, development of the proposed project would decrease the amount of impervious surface area from approximately 268,7775 sf to 240,737 sf. As a result, following implementation of the project, more pervious surface area would be available on-site for stormwater to infiltrate on-site soils. Consistent with Chapter 13.16 of the Municipal Code, the post-development stormwater flows from the site would be equal to or less than predevelopment conditions.

As a standard Condition of Approval (COA) for development projects in the City, the City's Department of Utilities requires preparation and submittal of project-specific drainage studies. With submittal of the required drainage study, the Department of Utilities would review the Improvement Plans for the proposed project prior to approval to ensure that adequate water quality control facilities and certified full capture trash control devices are incorporated. It should be noted that the proposed project would comply with Section 13.08.145, Mitigation of drainage impacts; design and procedures manual for water, sanitary sewer, storm drainage, and water quality facilities, of the Municipal Code, which requires the following:

"When property that contributes drainage to the storm drain system or combined sewer system is improved or developed, all stormwater and surface runoff drainage impacts resulting from the improvement or development shall be fully mitigated to ensure that the improvement or development does not affect the function of the storm drain system or combined sewer system, and that there is no increase in flooding or in water surface elevation that adversely affects individuals, streets, structures, infrastructure, or property."

While the project-specific drainage study will be completed at a later date, per the Preliminary Grading Plan, the project would include the provision of several infiltration trenches, as well as stormwater treatment vaults equipped with Contech StormFilter cartridges, in order to treat on-site runoff. Considering the reduction in impervious surface area, the planned stormwater treatment facilities, and the required preparation of a site-specific drainage study, adverse impacts related to water quality during project operations would not occur.

Conclusion

Design of the proposed project site and conformance with City and State regulations would ensure that a substantial degradation to water quality or violation of any water quality objectives due to increases in sediments and other contaminants generated by construction and/or development of the proposed project

would not occur. The design of the proposed project provides for containment of runoff water associated with the site through the use of infiltration trenches and on-site stormwater treatment vaults; therefore, discharge of runoff to surface waters or groundwater would not result from the proposed project. Therefore, the proposed project would not result in significant impacts related to substantial degradation of water quality or violation of any water quality objectives set by the SWRCB due to increases in sediments and other contaminants generated by construction and/or development of the proposed project. Implementation of proposed project would have **no additional significant environmental effect** related to drainage and runoff beyond what was previously evaluated in the Master EIR.

Question B

A floodplain is an area that is inundated during a flood event and is often physically discernable as a broad, flat area created by historic flood. According to FEMA's FIRM, the project is within Zone A99, a 100-year flood hazard zone. As such, the proposed project would place housing or structures within a 100-year flood hazard area. The A99 designation is used for areas where flood protection system has reached specified statutory progress toward completion. In addition to FEMA, the Sacramento Area Flood Control Agency (SAFCA) was formed to address the Sacramento area's vulnerability to catastrophic flooding.

Areas designated as A99 are required to comply with the following criteria, in regards to levee construction, established by FEMA:

- 100 percent of the project's total financial cost for the completed flood control system has been authorized;
- At least 60 percent of the total financial project cost of the completed flood control system has been appropriated;
- At least 50 percent of the total financial project cost of the completed flood control system has been expended;
- All critical features of the flood control system, as identified by FEMA, are under construction, and each critical feature is 50 percent complete as measured by the actual expenditure of the estimated construction budget funds; and
- The community has not been responsible for any delay in the competition of the system.

Mandatory flood insurance purchase requirements and floodplain management would be required of properties located in Zone A99. At a minimum, projects located within Zone A99 would need to include the floodplain management and building requirements set forth in Section 60.3 of the National Flood Insurance Program (NFIP) regulations, which include, but are not limited to, the following:

- Review all permit applications to determine whether proposed building sites will be reasonably safe from flooding. If a proposed building site is in a flood-prone area, all new construction and substantial improvements shall (i) be designed (or modified) and adequately anchored to prevent flotation, collapse, or lateral movement of the structure resulting from hydrodynamic and hydrostatic loads, including the effects of buoyancy, (ii) be constructed with materials resistant to flood damage, (iii) be constructed with electrical, heating, ventilation, plumbing, and air conditioning equipment and other service facilities that are designed and/or located so as to prevent water from entering or accumulating within the components during conditions of flooding.
- Review subdivision proposals and other proposed new development, including manufactured home parks or subdivisions, to determine whether such proposals will be reasonably safe from flooding. If a subdivision proposal or other proposed new development is in a flood-prone area, any such proposals shall be reviewed to assure that (i) all such proposals are consistent with the need to minimize flood damage within the flood-prone area, (ii) all public utilities and facilities, such as sewer, gas, electrical, and water systems are located and constructed to minimize or eliminate flood damage, and (iii) adequate drainage is provided to reduce exposure to flood hazards;

Given that the proposed project would be required to comply with floodplain management and building requirements of Section 60.3 of the NFIP for flood Zone A99, impacts related to flooding would be considered less than significant, and implementation of proposed project would have **no additional**

significant environmental effect related to flooding beyond what was previously evaluated in the Master EIR.

MITIGATION MEASURES

None required.

FINDINGS

The project would have no additional project-specific environmental effects relating to Hydrology and Water Quality.

SUTTER GREENS 2.0 PROJECT

Initial	Stud	y/Mitigat	ed Ne	gative	Decla	ratior
				-		

Issues	:	Effect will be studied in the EIR	Effect can be mitigated to less than significant	No additional significant environmental effect
9. <u>NOI</u> Would	<u>SE</u> the project:			
A)	Result in exterior noise levels in the project area that are above the upper value of the normally acceptable category for various land uses due to the project's noise level increases?			Х
B)	Result in residential interior noise levels of 45 dBA L _{dn} or greater caused by noise level increases due to the project?			Х
C)	Result in construction noise levels that exceed the standards in the City of Sacramento general plan or Noise Ordinance?			Х
D)	Permit existing and/or planned residential and commercial areas to be exposed to vibration- peak-particle velocities greater than 0.5 inches per second due to project construction?			х
E)	Permit adjacent residential and commercial areas to be exposed to vibration peak particle velocities greater than 0.5 inches per second due to highway traffic and rail operations?			х
F)	Permit historic buildings and archaeological sites to be exposed to vibration-peak-particle velocities greater than 0.2 inches per second due to project construction and highway traffic?			х

ENVIRONMENTAL SETTING

The discussions below are based on the Environmental Noise Assessment prepared for the proposed project by Saxelby Acoustics LLC, dated July 1, 2021 (see Appendix E). The following section presents basic information related to noise and vibration, as well as the existing noise environment at the project site.

Noise

Sound is defined as any pressure variation in air that the human ear can detect. If the pressure variations occur frequently enough (at least 20 times per second), they can be heard and are called sound. The number of pressure variations per second is called the frequency of sound, and is expressed as cycles per second, called Hertz (Hz). Discussing sound directly in terms of pressure would require a very large and awkward range of numbers. To avoid this, the decibel (dB) scale was devised. The decibel scale uses the hearing threshold (20 micropascals of pressure), as a point of reference defined as 0 dB. Other sound pressures are compared to the reference pressure and the logarithm is taken to keep the numbers in practical range. The dB scale allows a million-fold increase in pressure to be expressed as 120 dB. To better relate overall sound levels and loudness to human perception, frequency-dependent weighting networks were developed. A strong correlation exists between the way humans perceive sound and A-weighted sound levels. For this reason, the A-weighted sound level has become the standard tool of environmental noise assessment for community exposures. All sound levels expressed as dB in this section are A-weighted sound levels, unless noted otherwise.

Community noise is commonly described in terms of the "ambient" noise level, which is defined as the allencompassing noise level associated with a given noise environment. A common statistical tool to measure the ambient noise level is the average, or equivalent, sound level (L_{eq}), over a given time period (usually one hour). The L_{eq} is the foundation of the composite noise descriptors, day-night average level (L_{dn}) and the community noise equivalent level (CNEL), and shows very good correlation with community response to noise for the average person. The median noise level descriptor, denoted L_{50} , represents the noise level which is exceed 50 percent of the hour. In other words, half of the hour ambient conditions are higher than the L_{50} and the other half are lower than the L_{50} .

The L_{dn} is based upon the average noise level over a 24-hour day, with a +10 dB weighting applied to noise occurring during nighttime (10:00 PM to 7:00 AM) hours. The nighttime penalty is based upon the assumption that people react to nighttime noise exposures as though they were twice as loud as daytime exposures. Because L_{dn} represents a 24-hour average, L_{dn} tends to disguise short-term variation in the noise environment. Where short-term noise sources are an issue, noise impacts maybe assessed in terms of maximum noise levels, hourly averages, or other statistical descriptors.

Another common descriptor is the CNEL. The CNEL is similar to the L_{dn} , except CNEL has an additional weighting factor. Both average noise energy over a 24-hour period. The CNEL applies a +5 dB weighting to events that occur between 7:00 PM and 10:00 PM, in addition to the +10 dB weighting between 10:00 PM and 7:00 AM associated with L_{dn} . Typically, the CNEL and L_{dn} result in similar results for the same noise events, with the CNEL sometimes resulting in reporting a 1 dB increase compared to the L_{dn} to account for noise events between 7:00 PM and 10:00 PM that have the additional weighting factor.

Vibration

Vibration is like noise in that vibration involves a source, a transmission path, and a receiver. While vibration is related to noise, vibration differs in that noise is generally considered to be pressure waves transmitted through air, whereas vibration usually consists of the excitation of a structure or surface. As with noise, vibration consists of an amplitude and a frequency. A person's perception to the vibration will depend on their individual sensitivity to vibration, as well as the amplitude and frequency of the source and the response of the system which is vibrating. Vibration can be measured in terms of acceleration, velocity, or displacement. Vibration magnitude is measured in vibration decibels (VdB) relative to a reference level of 1 micro-inch per second peak particle velocity (ppv), the human threshold of perception. The background vibration level in residential areas is usually 50 VdB or lower. Most perceptible indoor vibration is caused by sources within buildings such as operation of mechanical equipment, movement of people, or slamming of doors. Typical outdoor sources of perceptible ground-borne vibration are construction equipment, steel-wheeled trains, and traffic on rough roads. If the roadway is smooth, the vibration from traffic is rarely perceptible. The range of environmental interest is typically from 50 VdB to 90 VdB (or 0.12 inch per second ppv), the latter being the general threshold where structural damage can begin to occur in fragile buildings.

Existing Noise Environment

To quantify the existing ambient noise environment in the project vicinity, Saxelby Acoustics conducted continuous (24-hr.) noise level measurements at three locations on the project site. Noise measurement locations are shown on Figure 8. A summary of the noise level measurement survey results is provided in Table 7.



Figure 8 Noise Measurement Sites

Table 7 Summary of Existing Background Noise Measurement Data								
Average Measured Hourly Noise Levels, dBA								
			Daytime (7:00 AM - 10:00 PM)		(10-0	Nighttime	; 0 AM)	
Site	Date	CNEL/L _{dn}	L _{eq}	L ₅₀	L _{max}	L _{eq}	L ₅₀	L _{max}
LT-1	4/29/2021	62/61	58	53	71	54	53	65
LT-2	4/29/2021	60/60	54	52	67	54	53	63
LT-3	4/29/2021	64/63	60	57	78	57	55	69
Source: Saxelby Acoustics 2021								

STANDARDS OF SIGNIFICANCE

For purposes of this Initial Study, impacts due to noise may be considered significant if construction and/or implementation of the proposed project would result in the following impacts that remain significant after implementation of General Plan policies:

- Result in exterior noise levels in the project area that are above the upper value of the normally acceptable category for various land uses due to the project's noise level increases;
- Result in residential interior noise levels of 45 dBA L_{dn} or greater caused by noise level increases due to the project;
- Result in construction noise levels that exceed the standards in the City of Sacramento Noise Ordinance;
- Permit existing and/or planned residential and commercial areas to be exposed to vibration-peakparticle velocities greater than 0.5 inches per second due to project construction;
- Permit adjacent residential and commercial areas to be exposed to vibration peak particle velocities greater than 0.5 inches per second due to highway traffic and rail operations; or
- Permit historic buildings and archaeological sites to be exposed to vibration-peak-particle velocities greater than 0.2 inches per second due to project construction and highway traffic.

SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES

The Master EIR evaluated the potential for development under the 2035 General Plan to increase noise levels in the community. New noise sources include vehicular traffic, aircraft, railways, light rail and stationary sources. The general plan policies establish exterior (Policy EC 3.1.1) and interior (EC 3.1.3) noise standards. A variety of policies provide standards for the types of development envisioned in the General Plan.

See Policy EC 3.1.8, which requires new mixed-use, commercial and industrial development to mitigate the effects of noise from operations on adjoining sensitive land use, and Policy 3.1.9, which calls for the City to limit hours of operations for parks and active recreation areas to minimize disturbance to nearby residences. Notwithstanding application of the general plan policies, noise impacts for exterior noise levels (Impact 4.8-1) and interior noise levels (Impact 4.8-2), and vibration impacts (Impact 4.8-4) were found to be significant and unavoidable.

ANSWERS TO CHECKLIST QUESTIONS

Questions A and B

During project operations, the primary source of noise would be generated from traffic on the adjacent roadways. Operational noise associated with the proposed project is discussed in further detail below.

Operational Noise at Off-Site Receptors

The proposed project would include typical residential noise which would be compatible with the adjacent existing residential uses. In addition, residential land uses typically do not generate substantial noise. Therefore, impacts resulting from project-generated noise would be considered less than significant.

Traffic Noise at Off-Site Receptors

Existing noise levels due to traffic are calculated using the Federal Highway Administration Highway Traffic Noise Prediction Model (FHWA RD-77-108). The model is based upon the Calveno reference noise factors for automobiles, medium trucks and heavy trucks, with consideration given to vehicle volume, speed, roadway configuration, distance to the receiver, and the acoustical characteristics of the site. Table 8 summarizes the modeled traffic noise levels at the nearest sensitive receptors along each roadway segment in the proposed project area.

Table 8 Predicted Traffic Noise Level and Project-Related Traffic Noise Level Increases						
Predicted Exterior Noise Level (dBA L _{dn}) at Closest Sensitive Receptors						
			Existing +			
Roadway	Segment	Existing No Project	Project	Change		
Natomas Park Dr.	W. El Camino Ave to Garden Hwy.	61.5	62.1	0.6		
W. El Camino Ave.	I-5 to Truxel Rd.	64.8	65.0	0.2		
Source: Saxelby Acoustics, 2021.						

The FICON guidelines specify criteria to determine the significance of traffic noise impacts. Where existing traffic noise levels are greater than 65 dB L_{dn} , at the outdoor activity areas of noise-sensitive uses, a +1.5 dB L_{dn} increase in roadway noise levels will be considered significant. The maximum increase is traffic noise at the nearest sensitive receptor is predicted to be 0.6 dBA. Therefore, impacts resulting from increased traffic noise would be less than the 1.5 dB threshold of significance which is applicable to the project site.

Exterior Transportation Noise

CEQA does not require an analysis of the environment's impact on the proposed project; however, noiserelated effects on future residents of the project are typically evaluated to determine consistency with the City of Sacramento's policies. While not required under CEQA, the following section regarding off-site transportation noise effects on future residents is provided for informational purposes.

Saxelby Acoustics used the SoundPLAN noise model to calculate traffic noise levels at the proposed residential uses due to traffic on West El Camino Avenue and Natomas Park Drive. The model was calibrated to existing conditions. The proposed buildings and surrounding structures were input into the SoundPLAN model to determine the traffic noise exposure on the project site. The results of this analysis are shown on Figure 9.

As shown on Figure 9, the pool area and playground are predicted to be exposed to exterior transportation noise levels up to approximately 56 dBA during daytime (7:00 AM to 10:00 PM) hours. This would comply with the 65 dBA limit for outdoor activity areas in multi-family residential uses established by the City of Sacramento General Plan.

Interior Transportation Noise

Based upon Figure 9, the proposed project would be exposed to exterior noise levels of up to 68 dBA L_{dn} at the ground floor building facades closest to West EI Camino Avenue. Second floor locations would be exposed to noise levels up to 69 dBA L_{dn} .



Figure 9 Transportation Noise Contours

Modern building construction methods typically yield an exterior-to-interior noise level reduction of 25 dBA. For the proposed project, exterior noise levels are predicted to be up to 69 dBA L_{dn} , resulting in an interior noise level of 44 dBA L_{dn} based on typical building construction. Such noise levels would comply with the City's 45 dBA L_{dn} interior noise level standard.

Conclusion

Because the proposed project would comply with the City of Sacramento's exterior and interior noise level requirements, the project would not result in exterior noise levels in the project area that are above the upper value of the normally acceptable category for various land uses nor would the project result in residential interior noise levels of 45 dBA L_{dn} or greater. Therefore, a less-than-significant impact would result, and implementation of proposed project would have **no additional significant environmental effect** beyond what was previously evaluated in the Master EIR.

Question C

During the construction phases of the project, noise from construction activities would add to the noise environment in the immediate project vicinity. Construction at the project site would include site grading, clearing and excavation work associated with site preparation. The on-site equipment required for construction activities are expected to include excavators, graders, haul trucks, and a crane, among other construction equipment. Table 9 shows predicted construction noise levels for each of the project construction phases.

Table 9 Construction Equipment Noise Levels for Primary Construction Phases							
Equipment	Quantity	Usage (percent)	Maximum, L _{max} (dBA at 50 feet)	Hourly Average, L _{eq} (dBA at 50 feet)			
		Demolitio	n				
Concrete Saw	1	20	90	83			
Excavator	3	40	81	82			
Dozer	2	40	82	81			
			Total:	87			
		Site Prepara	tion				
Dozer	3	40	82	83			
Tractor/Loader/	4	40	84	86			
Backhoe							
			Total:	88			
	Grading						
Grader	2	40	85	84			
Dozer	1	40	82	78			
Scraper	1	40	84	80			
Tractor/Loader/	2	40	84	83			
Backhoe							
			Total:	88			
		Building Const	ruction				
Crane	1	16	81	73			
Forklift	3	40	83	84			
Generator	1	50	81	78			
Tractor/Loader/	3	40	84	85			
Backhoe							
Welder/Torch	1	40	74	70			
			Total:	88			
		Paving					
Paver	2	50	77	77			
		(table continued on	next page)				

Table 9 Construction Equipment Noise Levels for Primary Construction Phases							
UsageMaximum, LmaxHourly Average, LeqEquipmentQuantity(percent)(dBA at 50 feet)(dBA at 50 feet)							
Paving Equipment	2	50	77	77			
Rollers	2	20	80	76			
			Total:	81			
Architectural Coating							
Air Compressor	1	40	79	75			
Total: 75							
Source: FHWA, Roadway Construction Noise Model (RCNM), January 2006.							

Based upon the Table 9 data, site preparation and grading are predicted to be the loudest phase of construction with an average noise exposure of 88 dBA at 50 feet. Per the Environmental Noise Assessment, the proposed project is predicted to generate construction noise levels ranging between 65 and 74 dBA L_{eq} at the nearest noise sensitive receptors.

The City's Noise Ordinance exempts construction operations that occur between 7:00 AM and 6:00 PM, Monday through Saturday, and between 9:00 AM and 6:00 PM on Sundays, from the applicable noise standards. However, if construction operations were to occur during the noise-sensitive hours of 6:00 PM to 7:00 AM, Monday through Saturday, or from 6:00 PM to 9:00 AM on Sunday, the applicable noise standards could potentially be exceeded at the aforementioned sensitive receptors surrounding the project site. However, because the City has determined that all construction within the City limits must comply with the City's Noise Ordinance, nighttime construction activities would not occur and construction noise associated with use of on-site equipment during the project construction phases would be insignificant.

Because the proposed project would be required to adhere to the City's Noise Ordinance and the increase in noise levels from construction activities would be temporary, noise levels associated with construction of the proposed project would not result in construction noise levels that exceed the standards in the City of Sacramento Noise Ordinance. Therefore, implementation of proposed project would have **no additional significant environmental effect** related to construction noise beyond what was previously evaluated in the Master EIR.

Question D through F

For structural damage, the California Department of Transportation (Caltrans) uses a vibration limit of 0.5 inches/second, peak particle velocity (in/sec ppv), for buildings structurally sound and designed to modern engineering standards; 0.2 in/sec ppv for buildings that are found to be structurally sound but where structural damage is a major concern; and a conservative limit of 0.08 in/sec ppv for ancient buildings or buildings that are documented to be structurally weakened.¹⁵ Accordingly, the City uses a threshold of significance for vibration levels of 0.5 in/sec ppv for residential and commercial areas, and 0.2 in/sec ppv for historic buildings and archaeological sites.

Operations of the proposed residential project would not generate groundborne vibration. During project construction, heavy equipment would be used for grading excavation, paving, and building construction, which would generate localized vibration in the immediate vicinity of the construction. The primary vibration-generating activities would be grading, utilities placement, and parking lot construction. Table 10 shows the typical vibration levels produced by construction equipment.

¹⁵ California Department of Transportation. *Transportation and Construction Vibration Guidance Manual*. September 2013.

Table 10 Vibration Levels for Various Construction Equipment					
Type of Equipment	PPV at 25 feet (inches/second)	PPV at 50 feet (inches/second)	PPV at 100 feet (inches/second)		
Large Bulldozer	0.089	0.031	0.011		
Loaded Trucks	0.076	0.027	0.010		
Small Bulldozer	0.003	0.001	0.000		
Auger/drill Rigs	0.089	0.031	0.011		
Jackhammer	0.035	0.012	0.004		
Vibratory Hammer	0.070	0.025	0.009		
Vibratory Compactor/roller	0.210 (Less than 0.20 at 26 feet)	0.074	0.026		

Source: Transit Noise and Vibration Impact Assessment Guidelines. Federal Transit Administration. May 2006.

As shown in Table 10, construction activities are anticipated to generate vibration levels ranging from 0.003 in/sec ppv to 0.210 in/sec ppv at a distance of 25 feet. The nearest noise-sensitive receptors are located approximately 30 feet east of the project site boundary and, therefore, would experience vibration levels less than the 0.5 in/sec ppv threshold for residential areas, and implementation of proposed project would have **no additional significant environmental effect** related to groundborne vibration beyond what was previously evaluated in the Master EIR.

MITIGATION MEASURES

None required.

FINDINGS

The project would have no additional project-specific environmental effects relating to Noise.

Issues:	Effect will be studied in the EIR	Effect can be mitigated to less than significant	No additional significant environmental effect
 10. <u>PUBLIC SERVICES</u> Would the project: A) Would the project result in the need for new or altered services related to fire protection, police protection, school facilities, or other governmental services beyond what was anticipated in the 2035 General Plan? 			х

ENVIRONMENTAL SETTING

The City of Sacramento provides fire, police, and parks and recreation services in the vicinity of the proposed project site.

The Sacramento Fire Department (SFD) provides fire protection services to the entire City and some small areas just outside the City boundaries within the County limits. SFD provides fire protection and emergency medical services to the project area. First-response service is provided by Station 15, located at 1591 Newborough Drive, approximately 0.16-mile east of the project site. Service is also provided by Station 14, located at 1341 North C Street, approximately 1.9 miles southeast of the site.

The Sacramento City Police Department (SPD) provides police protection services to the project area. The project area is serviced by North Command which is located at the 3550 Marysville Boulevard, approximately 4.25 miles away from the project site. In addition to the SPD, the Sacramento County Sheriff's Department, California Highway Patrol (CHP), UC Davis Medical Center Police Department, and the Regional Transit Police Department aid the SPD to provide protection for the City.

The project site is within the Natomas Unified School District (NUSD). The NUSD serves 11,248 students on 14 campuses.¹⁶ The nearest school, Bannon Creek Elementary School, is located approximately 0.28-miles north of the project site.

The City of Sacramento Department of Youth, Parks and Community Enrichment (Department of YPCE) oversees more than 4,255.5 acres of parkland, and manages more than 223 parks within the City. The project site is located approximately 612 feet to the south of Bannon Creek Park and Parkway and approximately 2,549.30 feet southwest of South Natomas Community Park.

STANDARDS OF SIGNIFICANCE

For the purposes of this Initial Study, an impact would be considered significant if the project resulted in the need for new or altered services related to fire protection, police protection, school facilities, or other governmental services beyond what was anticipated in the 2035 General Plan.

SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES

The Master EIR evaluated the potential effects of the 2035 General Plan on various public services. Police, fire protection, schools, libraries and emergency services were evaluated in Chapter 4.10 of the Master EIR.

¹⁶ Natomas Unified School District. Overview. Available at: https://natomasunified.org/about-us/. Accessed March 2021.

The General Plan provides that adequate staffing levels for police and fire are important for the long-term health, safety and well-being of the community (Goal PHS 1.1, PHS 2.1). The Master EIR concluded that effects of development that could occur under the General Plan would be less than significant.

General Plan policies that call for the City to consider impacts of new development on schools (see, for example, Policy ERC 1.1.2 setting forth locational criteria, and Policy ERC 1.1.4 that encourages joint-use development of facilities) reduce impacts on schools to a less-than-significant level (Impacts 4.10-3, 4). Impacts on library facilities were considered less than significant (Impact 4.10-5).

ANSWERS TO CHECKLIST QUESTIONS

The proposed project involves the development a 190-unit multi-family residential complex on approximately 9.06 acres. The development of the proposed project would introduce new residents to the area. As such, the proposed project would result in an increase in demand for fire and police protection services, as well as schools and other public facilities or services.

Question A

The following discussions pertains to the existing fire, police, and school facilities, as well as the proposed project's impacts related to such facilities and services.

Fire Protection

The SFD provides fire protection services to the entire City, and small areas within Sacramento County that include the Pacific Fruitridge and the Natomas Fire Protection Districts. The SFD serves a population of over 738,000 in a 358 square mile service area. The SFD has approximately 155 on-duty personnel working daily to serve the City.¹⁷

The closest fire station to the project site is SFD Station 15, approximately 0.16-mile east of the project site. Stated within the Sacramento General Plan EIR, the goal of the SFD is to have fire suppression and paramedic services arrive at the scene within four minutes. Considering the proximity of the project site to Station 15, it is reasonable to assume that response times from the SFD would meet the four-minute response time goal.

Previously mentioned, the proposed project is consistent with buildout of the Sacramento General Plan and, thus, the increase in population associated with the project has been anticipated by the City. Within the General Plan, Policy PHS 2.1.11 states that the City shall require development projects to contribute fees for fire protection services and facilities. As a result of Policy PHS 2.1.11, the project would be required to pay applicable development fees financially supporting the SFD. Considering that the project is consistent with the General Plan and the proximity of the site to Station 15, the proposed project would not result in the need for new or altered services related to fire protection and a less-than-significant impact would occur.

Police Protection

The SPD provides police protection services within the City boundaries. The SPD uses a variety of data that includes GIS based data, call and crime frequency information, and available personnel to rebalance the deployment of resources on an annual basis to meet the changing demands of the City. In addition, the Sacramento County Sheriff's Department provides police protection services outside the City limits but within the Planning Area. According to the General Plan EIR, as buildout of the General Plan occurs, the SPD would need new, decentralized facilities that would be required to maintain adequate response times. Currently, the SPD averages an eight minute and five second response time for Priority 2 calls.

¹⁷ Metro Fire Sacramento. *About Us.* Available at: https://metrofire.ca.gov/about-us. Accessed March 2021.

Similar to the SFD, the added population from the proposed project would create an increased demand in police services to the project area; however, as mentioned above, because the proposed project is consistent with the General Plan, the associated increase in population has already been anticipated by the City. The proposed General Plan policies include measures to accommodate for growth and increased service demands. Specifically, Policy PHS 1.1.1, calls for the City to prepare a Police Master plan to address staffing and facility needs. In addition, per Policy PHS 1.1.8 within the Master EIR, the City requires development projects to contribute fees for police facilities. As a result, development would pay applicable development impact fees to fund necessary police services. Implementation of polices and goal presented within the General Plan reduce growth inducing impacts on police services to a less-than-significant impact.

Considering the above, the proposed project is consistent with buildout of the Sacramento General Plan and, thus, the increase in population associated with the project has been anticipated by the City. As a result, the proposed project would not result in the need for new or altered services related to police protection and a less-than-significant impact would occur.

Schools

The City is served by six school districts providing public elementary, middle school, and high school opportunities. The school districts include the Sacramento City Unified School District, Twin Rivers Unified School District, Robla School District, Natomas Unified School District, and the Elk Grove Unified School District. The proposed project is within the Natomas Unified School District. The Natomas Unified School District does not have any schools that are at or above capacity. According to the Sacramento General Plan EIR, Natomas Unified School District's current capacity is at 70 percent and is identified as a district with greater capacity for growth.

Development of the proposed project would generate additional students in the area. However, as discussed above, the proposed project would be consistent with the 2035 General Plan land use designation for the site. As such, the increase in students associated with buildout of the site has been addressed in the 2035 General Plan EIR. As stated within the General Plan EIR, all impacts on schools are considered to be less than significant with payment of the State Department of Education Development Fee, which was enacted to provide for school facilities construction, improvements, and expansion. Policies ERC 1.1.1 and 1.1.2 encourages the City to work with school districts to ensure that schools are provided to serve all existing and future residents and constructed in the neighborhoods that they serve, in safe locations, and connected to surrounding uses by walkways, bicycle paths, and greenway.

As a result, implementation of education development fees and policies within the General Plan reduce the proposed projects impacts on schools to a less-than-significant level.

Other Governmental Services

The Sacramento Public Library (SPL) serves the cities of Sacramento, Citrus Heights, Elk Grove, Galt, Iselton, Rancho Cordova, and the County of Sacramento. The SPL authority is governed by a Joint Exercise of Powers Agreement between these cities and counties to provide public library services to all citizens in the jurisdiction. Currently, 16 new libraries are current planned for construction in the City and County of Sacramento by 2025. Based on plans set forth in the SPL Authority Facility Master Plan, the SPL expects to provide 1,007,274 sf of library space throughout the SPL Authority's service area by 2025. The new library spaced would meet the target level, 0.40 sf library facilities per capita, defined in the General Plan EIR.

The proposed project would result in an increase in demand for other governmental services, such as library service. The South Natomas Library, located approximately 0.52-mile north of the project site, currently serves the project site and the surrounding area.

Because the proposed project under the 2035 General Plan would be required to comply with the General Plan policies, and the SPL Facility Master Plan outlines plans to meet the library target level in 2025, the proposed project would not result in the need for new or altered services related to fire other governmental

services beyond what was anticipated in the 2035 General Plan and a less-than-significant impact would occur.

Conclusion

As noted above, the applicant would be required to pay all of the required development fees to the appropriate public services departments. Payment of such would ensure that impacts related to fire protection, police protection, school facilities, or other governmental services would be reduced to a less-than-significant level. Therefore, implementation of proposed project would have **no additional significant environmental effect** beyond what was previously evaluated in the Master EIR.

MITIGATION MEASURES

None required.

FINDINGS

The project would have no additional project-specific environmental effects relating to Public Services.
SUTTER GREENS 2.0 PROJECT Initial Study/Mitigated Negative Declaration

Issues:		Effect will be studied in the EIR	Effect can be mitigated to less than significant	No additional significant environmental effect
 A) Cause or accelerat deterioration of ex recreational facilities? 	e substantial physical sting area parks or			Х
 B) Create a need for con- recreational facilities anticipated in the 203 	struction or expansion of beyond what was 5 General Plan?			Х

ENVIRONMENTAL SETTING

Natural resources and parks provide a wide range of recreational opportunities for residents in the vicinity of the project site. As noted by the City of Sacramento's website and the City's General Plan Background Report, the City currently contains 223 developed and undeveloped park sites, 88 miles of off-street bikeways and trails, 21 lakes/ponds or beaches, over 20 aquatic facilities, and extensive recreation facilities in the City parks. The developed park sites comprise 218 total parks with an area of over 4,300 acres of parkland. The proposed project is adjacent to various recreational and park facilities. The Bannon Creek Preserve is an open space park located immediately south of the project site. In addition, the South Natomas Community Park, approximately 24 acres, is 0.50-mile north of the project site.

STANDARDS OF SIGNIFICANCE

For purposes of this Initial Study, impacts to recreational resources are considered significant if the proposed project would do either of the following:

- Cause or accelerate substantial physical deterioration of existing area parks or recreational facilities; or
- Create a need for construction or expansion of recreational facilities beyond what was anticipated in the 2035 General Plan.

SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES

Chapter 4.9 of the Master EIR considered the effects of the 2035 General Plan on the City's existing parkland, urban forest, recreational facilities and recreational services. The General Plan identified a goal of providing an integrated park and recreation system in the City (Goal ERC 2.1). New residential development will be required to dedicate land, pay in-lieu fees or otherwise contribute a fair share to the acquisition and development of parks and recreation facilities (Policy ERC 2.2.5). Impacts were considered less than significant after application of the applicable policies. (Impacts 4.9-1 and 4.9-2).

ANSWERS TO CHECKLIST QUESTIONS

Questions A and B

The proposed project includes the construction of a 190-unit multi-family residential complex. As shown in Figure 3, the proposed project includes a playground, pool, community club, and two dog parks. As a result, the proposed project would include recreational facilities on-site for future residences. However, as the proposed project would induce population growth, future residents of the proposed project are anticipated to utilize recreation facilities in the surrounding project area as well.

Implementation of the policies and goals within the General Plan would reduce impacts to parks and recreational facilities to a less-than-significant level. For example, Policy ERC 2.2.1 states that all new development shall be consistent with the applicable provisions of the Parks and Recreation Master Plan. In addition, because the proposed project is consistent with the 2035 General Plan, the increased population associated with the proposed project and increase in demand for recreational facilities was anticipated and analyzed within the 2035 General Plan Master EIR. Furthermore, pursuant to City Code 18.56.230, the proposed project would be required to pay a Park Development Impact Fee prior to issuance of a building permit. The City would use the Park Development Impact Fee to finance the design, construction, installation, improvement, and acquisition of park facilities for neighborhood parks within two miles of the development project, community parks within five miles of the development project, and regional and citywide park facilities located anywhere in the City.

Based on the above, given the project consistency with the Parks and Recreation Master Plan and the City's General Plan, and the required payment of the Park Development Impact Fee, implementation of the proposed project would result in *no additional environmental effect* related to recreation beyond what was analyzed in the 2035 Master EIR.

MITIGATION MEASURES

None required.

FINDINGS

The project would have no additional project-specific environmental effects relating to Recreation.

Issues:	Effect will be studied in the EIR	Effect can be mitigated to less than significant	No additional significant environmental effect
12. <u>TRANSPORTATION AND CIRCULATION</u> Would the project:			
 A) Conflict with a program plan, ordinance policy addressing the circulation system including transit, roadways, bicycle, an pedestrian facilities? 	or n, nd		X
 B) Would the project conflict or be inconsister with CEQA Guidelines Section 15064. subdivision (b)? 	nt 3,		х
C) Substantially increase hazards due to geometric design feature (e.g. sharp curves dangerous intersections) or incompatib uses (e.g., farm equipment)?	a or le		Х
D) Result in inadequate emergency access?			Х

ENVIRONMENTAL SETTING

The following section is based on information from the City of Sacramento 2035 General Plan, the 2035 General Plan Master EIR, and the City of Department of Public Works – Transportation Vehicle Miles Traveled (VMT) Technical Memorandum prepared for the proposed project (see Appendix F).

Roadways in the vicinity of the project site include West El Camino to the North and Natomas Park Drive to the west and south. West El Camino is four lane arterial roadway with an intersection at Natomas Park Drive northwest of the site with a 40 miles per hour (mph) posted speed limit. Natomas Park Drive is a fourlane roadway collector with a two-way left turn lane in the proximity of the project site with a 30 mph posted speed limit (major street).

I-5 is located approximately 0.34-mile west of the project site and I-80 is located approximately 1.28 miles north of the project site. The West El Camino/Natomas Park Drive and Natomas Park Drive/Capital Park Drive intersections are the closest intersections to the project site.

In the vicinity of the project site, continuous sidewalks exist along the northern side along West El Camino and southern side along Natomas Park Drive. Natomas Park Drive has Class II bike lines striped on both sides of the roadway. Additionally, the City's Bikeways Master Plan shows a planned off-street trail continuing through the Bannon Creek Preserve to Garden Highway.

Public transit service within the study area is provided by bus, which is operated by the Sacramento Regional Transit (RT). The following routes provide services in the vicinity of the project site:

- Route 88 provides service on West El Camino. The route features a bus stop on West El Camino directly north of the project site. The route begins at 9th Street and K Street and the last stop is Arden Way and Del Paso Boulevard. Monday through Friday, Route 88 starts operating at 5:40 AM to 9:23 PM. On Saturdays, Route 88 operates from 7:15 AM to 9:30 PM. On Sundays, Route 88 operates from 8:17 AM to 8:53 PM.
- Route 86 provides service on Natomas Park Drive. The route features a bus stop in each direction
 of Natomas Park Drive with a stop on the southwestern side of the project site. The route begins at
 the Marconi/Arcade Light Rail Station and terminates at the Sacramento Valley Station downtown

where several other bus routes and light rail stations could be easily accessed. Monday through Friday, Route 86 operates on 60-minute headways from about 5:30 AM to 9:15 PM. On Saturdays, Route 86 operates from about 7:00 AM to 8:45 PM. On Sundays and Holidays, Route 86 operates from about 9:00 AM to 6:30 PM.

STANDARDS OF SIGNIFICANCE

Section 15064.3 of the CEQA Guidelines provides specific considerations for evaluating a project's transportation impacts. Pursuant to Section 15064.3, analysis of VMT attributable to a project is the most appropriate measure of transportation impacts, with other relevant considerations consisting of the effects of the project on transit and non-motorized travel. VMT is the total miles of travel by personal motorized vehicles a project is expected to generate in a day. VMT measures the full distance of personal motorized vehicle-trips, with one end within the project site. Based on current practices from the City of Sacramento for residential projects, transportation impacts for CEQA purposes are considered significant if the proposed project would generate Household VMT per capita figures that exceed 85 percent of the regional average for Household VMT per capita, consistent with technical advisory guidance published by the Governor's Office of Planning and Research (OPR) in 2018.

Several screening thresholds are used to quickly determine whether a project may be presumed to have a less-than-significant VMT impact without conducting a detailed project generated VMT analysis. For residential projects, screening criteria includes:

- 1. Small Projects projects that generate or attract fewer than 110 trips per day;
- 2. Map-Based Screening projects located in areas that are known to generate below-average VMT;
- 3. Near Transit Stations projects within 0.5-mile of an existing major transit stop or an existing stop along a high-quality transit corridor; or
- 4. Affordable Residential Development projects that include affordable housing within an infill location.

Lastly, for purposes of this Initial Study, impacts resulting from changes in transportation or circulation may be considered significant if construction and/or implementation of the proposed project would result in the following impacts that remain significant after implementation of General Plan policies or mitigation from the General Plan Master EIR:

Transit

- Adversely affect public transit operations; or
- Fail to adequately provide for access to public transit.

Bicycle Facilities

- Adversely affect bicycle travel, bicycle paths; or
- Fail to adequately provide for access by bicycle.

Pedestrian Circulation

- Adversely affect pedestrian travel, pedestrian paths; or
- Fail to adequately provide for access by pedestrians.

Construction-Related Traffic Impacts

- Degrade an intersection or roadway to an unacceptable level;
- Cause inconveniences to motorists due to prolonged road closures; or
- Result in an increased frequency of potential conflicts between vehicles, pedestrians, and bicyclists.

SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES

Transportation and circulation were discussed in the Master EIR in Chapter 4.12. Various modes of travel were included in the analysis, including vehicular, transit, bicycle, pedestrian and aviation components. Provisions of the 2035 General Plan that provide substantial guidance include Mobility Goal 1.1, calling for a transportation system that is effectively planned, managed, operated and maintained, promotion of multimodal choices (Policy M 1.2.1), support for state highway expansion and management consistent with the Sacramento Area Council of Governments Metropolitan Transportation Plan/Sustainable Communities Strategy (SACOG MTP/SCS) (Policy M 1.5.6) and development that encourages walking and biking (Policy LU 4.2.1).

While the General Plan includes numerous policies that direct the development of the City's transportation system, the Master EIR concluded that the General Plan development would result in significant and unavoidable effects. See Impacts 4.12-3 (roadway segments in adjacent communities, and Impact 4.12-4 (freeway segments).

ANSWERS TO CHECKLIST QUESTIONS

Question A

The following analysis provides a summary of the project trip generation and distribution, and impacts to transit, bicycle, and pedestrian facilities.

Project Trip Generation and Distribution

According to the information provided by the Department of Public Works-Transportation, the proposed project would generate approximately 88 AM peak hour trips and 105 PM peak hour trips per day. The proposed project is consistent with the land use designation for the site per the 2035 General Plan. As such, the Master EIR included an analysis of the increase in traffic associated with buildout of the project site. The proposed project would not increase traffic volumes from what has been anticipated in the 2035 General Plan. Therefore, the proposed project would not conflict with a program plan, ordinance or policy addressing the circulation system beyond what has been anticipated by the City per the Master EIR, and a less-than-significant impact would occur.

Transit, Bicycle, and Pedestrian Facilities

As stated above, Sacramento RT 88 and 86 provide transit opportunities from the project site, and the project is consistent with the General Plan land use and zoning designations for the project site. Because the proposed project would merely serve to expand residential uses in the project site, the project would not add noticeable transit demand; however, any demand added to the transit system could be adequately accommodated by the existing/planned transit system and has been anticipated in the 2035 General Plan and Master EIR. Additionally, the proposed project would not result in removal of any existing bicycle or pedestrian facilities or preclude the implementation of any proposed or existing off-street trails in the vicinity of the project. In fact, the proposed project would provide pedestrian and bicycle access for the residents through the addition of trails from the project site to the Bannon Creek Preserve Trail. Furthermore, the project would include the provision of bicycle parking spaces and a shared electric bike and/or electric scooter program, and the applicant intends to provide a private shuttle service for future tenants.

Conclusion

Based on the above, the proposed project would not conflict with a program, plan, ordinance, or policy address the circulation system, including transit, roadway, bicycle, and pedestrian facilities. Therefore, implementation of the proposed project would result in *no additional environmental effects* beyond what was analyzed in the 2035 Master EIR.

Question B

Pursuant to SB 743 and technical guidance published by OPR, several screening procedures exist to potentially streamline project analysis. A VMT Technical Memorandum was prepared for the proposed project by the City Department of Public Works-Transportation. The VMT Technical Memorandum determined that the proposed project qualifies for Map-Based Screening. Maps created with VMT data can illustrate areas that are currently below threshold VMT. Because new development in such locations would likely result in a similar level of VMT, such maps can be used to screen out residential and office projects from needing to prepare a detailed VMT analysis.

The proposed project's estimated VMT was determined using the maps derived from the traffic analysis zone results from SACOG's regional travel forecasting model system. The maps use hexagonal shaped geographic areas (HEX) to establish a uniform grid of Household VMT per capita by tallying all household VMT's generated by residents within the HEX and dividing by the total population in the HEX. The proposed project falls within a HEX estimated to produce between 50 percent to 85 percent of the Regional Average, which is less than the average household VMT per capita for the region. As a result, VMT associated with the proposed project is considered to be less-than-significant based on the Map-Based Screening.

Based on the above, the proposed project would not conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b), and implementation of the proposed project would result in **no additional environmental effects** beyond what was analyzed in the 2035 Master EIR.

Question C

Currently, access to the site is provided by two driveways from Natomas Park Drive. Both existing driveways would be removed as part of the project, and access to the project site would be provided by way of a new gated entrance/exit to/from Natomas Park Drive (refer to Figure 4). Additionally, a new exit-only and EVA driveway would be provided onto West El Camino Avenue. Internal circulation would be provided by a 26-foot-wide roadway. While the project would include a change to the project access driveway, the proposed project would not redesign, alter, or modify existing public roadways in the project vicinity. As such, the project would not substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment), and implementation of the project would result in **no additional environmental effects** beyond what was analyzed in the 2035 Master EIR.

Question D

The proposed project would be required to comply with all building, fire, and safety codes and specific development plans would be subject to review and approval by the City's Public Works Department and the SFD. Required review by the aforementioned departments would ensure that the proposed circulation system for the project site would provide adequate emergency access. In addition, Section 12.20.030 of the City's Municipal Code requires that a construction traffic control plan be prepared and approved prior to the beginning of project construction, to the satisfaction of the City Traffic Engineer and subject to review by all affected agencies. All work performed during construction must conform to the conditions and requirements of the approved plan. The plan would ensure that safe and efficient movement of traffic through the construction work zone(s) is maintained. At a minimum, the plan must include the following:

- Time and day of street closures;
- Proper advance warning and posted signage regarding street closures;
- Provision of driveway access plan to ensure safe vehicular, pedestrian, and bicycle movements;
- Safe and efficient access routes for emergency vehicles;
- Provisions for pedestrian safety;
- Use of manual traffic control when necessary;
- Number of anticipated truck trips, and time of day of arrival and departure of trucks;

- Provision of a truck circulation pattern and staging area with a limitation on the number of trucks that can be waiting and any limitations on the size and type of trucks appropriate for the surrounding transportation network; and
- The plan must be available at the site for inspection by the City representative during all work.

With implementation of the aforementioned traffic control plan, local roadways and freeway facilities would continue to operate at acceptable operating conditions during construction, and the proposed project would not result in inadequate emergency access to the project site. Therefore, the implementation of the project would result in *no additional environmental effects* beyond what was analyzed in the 2035 Master EIR.

MITIGATION MEASURES

None required.

FINDINGS

The project would have no additional project-specific environmental effects relating to Transportation and Circulation.

SUTTER GREENS 2.0 PROJECT

Initial Study/Mitigated Negative Declaration

	Effect will be studied in the EIR	Effect can be mitigated to less than significant	No additional significant environmental effect
Would the project:			
 A) Cause a substantial adverse change in the significance of a tribal cultural resource, as defined in Public Resources Code 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe and that is: 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 		Х	
 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. 		Х	

ENVIRONMENTAL AND REGULATORY SETTING

The City of Sacramento and the surrounding area are known to have been occupied by Native American groups for thousands of years prior to settlement by non-Native peoples. Archaeological materials, including human burials, have been found throughout the city. Human burials outside of formal cemeteries often occur in prehistoric contexts. Areas of high sensitivity for tribal cultural resources are located within close proximity to the Sacramento and American rivers and other watercourses.

The proposed project area is situated within the lands traditionally occupied by the Valley Nisenan, or Southern Maidu. The language of the Nisenan includes several dialects and is classified within the Maiduan family of the Penutian linguistic stock (Kroeber 1925). Valley Nisenan territory was divided into politically autonomous "triblet" areas, each including several large villages (Moratto 1984). Two important villages were located near the project area, on the south bank of the American River, Momol, to the west of the project area, and Yalisumni, to the east (Wilson and Towne 1978:388).

Nisenan houses were domed structures covered with earth and tule or grass that measured 10 to 15 feet in diameter. Brush shelters were used in the summer and at temporary camps during food-gathering rounds. Larger villages often had semi-subterranean dance houses that were covered in earth and tule or brush and had a central smoke hole at the top and an east-facing entrance. Another common village structure was a granary, which was used for storing acorns (Wilson and Towne 1978).

Valley Nisenan people followed a seasonal round of food gathering, as did most California Indians. Food staples included acorns, buckeyes, pine nuts, hazelnuts, various roots, seeds, mushrooms, greens, berries, and herbs. Game was roasted, baked, or dried and included mule deer, elk, antelope, black bear, beaver, squirrels, rabbits, and other small animals and insects. Salmon, whitefish, sturgeon, and suckers, as well as freshwater shellfish, were all caught and eaten (Wilson and Towne 1978).

Euro-American contact with the Nisenan began with infrequent excursions by Spanish explorers and Hudson's Bay Company trappers traveling through the Sacramento-San Joaquin Valley in the early 1800s (Wilson and Towne 1978). With the coming of Russian trappers, Spanish missionaries, and Euro-American settlers, traditional lifeways were threatened by competition for land and resources, and by the introduction of new diseases. The malaria epidemic of 1833 decimated the Valley Nisenan population, killing an estimated 75 percent of the population. The influx of Euro-Americans during the Gold Rush-era further reduced the population due to forced relocations and violent retribution from the miners for real or imagined affronts.

Despite these major and devastating historical setbacks, today many Native Americans in the proposed project area are maintaining traditional cultural practices. Sometimes supported by thriving business enterprises, Tribal groups maintain governments, historic preservation programs, education programs, cultural events, and numerous other programs that sustain a vibrant culture.

Data Sources and Methodology

Under PRC Section 21080.3.1 and 21082.3, the City must consult with tribes traditionally and culturally affiliated with the project area that have requested formal notification and responded with a request for consultation. The parties must consult in good faith. Consultation is deemed concluded when the parties agree to measures to mitigate or avoid a significant effect on a tribal cultural resource when one is present or when a party concludes that mutual agreement cannot be reached. Mitigation measures agreed on during the consultation process must be recommended for inclusion in the environmental document.

A search of the Sacred Lands File was requested from the NAHC, and a response was received on April 15, 2021 indicating that Sacred Sites have not been identified within the project vicinity. Pursuant to AB 52, project notification letters were distributed to the appropriate tribes on May 7, 2021. One tribe requested consultation and, based on the location of the site, has provided recommended mitigation measures.

Federal Regulations

Federal plans, policies, or regulations related to tribal cultural resources that are directly applicable to the proposed project do not exist. However, Section 106 of the National Historic Preservation Act does require consultation with Native Americans to identify and consider certain types of cultural resources. Cultural resources of Native American origin identified as a result of the identification efforts conducted under Section 106 may also qualify as tribal cultural resources under CEQA.

State Regulations

• California Environmental Quality Act: CEQA requires that public agencies that finance or approve public or private projects must assess the effects of the project on tribal cultural resources. Tribal cultural resources are defined in PRC 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe that is (1) listed or determined eligible for listing on the California Register of Historical Resources (CRHR) or a local register, or (2) that are 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 PRC Section 5024.1. In applying the criteria set forth in subdivision (c) of PRC Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American Tribe.

- California PRC Section 5024: PRC Section 5024.1 establishes the CRHR, which is the authoritative guide for identifying the State's historical resources to indicate what properties are to be protected, if feasible, from substantial adverse change. For a resource to be eligible for the CRHR, it must be more than 50 years old, retain its historic integrity, and satisfy one or more of the following criteria:
 - 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.
 - 4. Has yielded, or may be likely to yield, information important in prehistory or history.

STANDARDS OF SIGNIFICANCE

For the purposes of this Initial Study, a tribal cultural resource is considered to be a significant resource if the resource is: 1) listed or eligible for listing in the California Register of Historical Resources or in a local register of historical resources; or 2) the resource has been 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. For purposes of this Initial Study, impacts on tribal cultural resources may be considered significant if construction and/or implementation of the proposed project would result in the following:

• Cause a substantial change in the significance of a tribal cultural resource as defined in Public Resources Code 21074.

SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES

The Master EIR evaluated the potential effects of development under the 2035 General Plan on prehistoric and historic resources (see Master EIR Chapter 4.4 and Appendix C - Background Report, B. Cultural Resources Appendix), but did not specifically address tribal cultural resources because that resource type had not yet been defined in CEQA at the time the Master EIR was adopted. The Master EIR identified significant and unavoidable effects on historic resources and archaeological resources, some of which could be tribal cultural resources as defined PRC Section 21074. Ground-disturbing activities resulting from implementation of development under the 2035 General Plan could affect the integrity of an archaeological site (which may be a tribal cultural resource), thereby causing a substantial change in the significance of the resource. General plan policies identified as reducing such effects on cultural resources that may also be tribal cultural resources include identification of resources on project sites (Policy HCR 2.1.1); implementation of applicable laws and regulations (Policy HCR 2.1.2); consultation with appropriate organizations and individuals including the Native American Heritage Commission and implementation of their consultation guidelines (Policy HCR 2.1.3); enforcement programs to promote the maintenance, rehabilitation, preservation, and interpretation of the City's historic resources (Policy HCR 2.1.4); listing of qualified historic resources under appropriate national, State, and local registers (Policy HCR 2.1.5); consideration of historic and cultural resources in planning studies (Policy HCR 2.1.6); enforcement of compliance with local, State, and federal historic and cultural preservation requirements (Policy HCR 2.1.8); and early consultation with owners and land developers to minimize effects (Policy HCR 2.1.10).

Of particular relevance to this project are policies that ensure compliance with protocol that protect or mitigate impacts to archaeological resources (Policy HCR 2.1.16) and that encourage preservation and minimization of impacts on cultural resources (Policy HCR 2.1.17).

ANSWERS TO CHECKLIST QUESTIONS

Questions A)i and A)ii

As discussed in Section 4, Cultural Resources, of this IS/MND, the approximately 9.06-acre project site includes the existing Natomas Sports Club development and parking areas. The proposed project would demolish the existing facilities and redevelop the site with a 190-unit multi-family residential complex and associated improvements.

Given the already developed/previously disturbed nature of the project site, surface tribal cultural resources are not anticipated to be found on-site during grading and construction activities. However, due to the predominant historic theme of the region as a whole, which includes thousands of years of occupation by Native American groups prior to non-Native peoples settling in the region, the possibility exists that unknown resources could be encountered during grading and excavation activities associated with development of the project. Therefore, the proposed project could have a potentially significant impact related to damaging or destroying prehistoric cultural resources. However, with implementation of Mitigation Measures 13-1 through 13-4, the *effect can be mitigated to less than significant*.

MITIGATION MEASURES

Implementation of the following mitigation measures would reduce impacts related to tribal cultural resources to a *less-than-significant* level.

13-1 Conduct Cultural Resources Sensitivity and Awareness Training Prior to Ground-Disturbing Activities

The City shall require the applicant/contractor to provide a cultural and tribal cultural resources sensitivity and awareness training program for all personnel involved in project construction, including field consultants and construction workers. The training will be developed in coordination with interested culturally affiliated Native American Tribes. The training will be conducted in coordination with qualified cultural resources specialists. The City may invite Native American Representatives from interested culturally affiliated Native American Native American Tribes to participate. The training shall be conducted before any construction activities begins on the project site. The program will include relevant information regarding sensitive tribal cultural resources and archaeological resources, including applicable regulations, protocols for avoidance, and consequences of violating State laws and regulations.

The worker cultural resources sensitivity and awareness program will also describe appropriate avoidance and minimization measures for resources that have the potential to be located on the project site and will outline what to do and who to contact if any potential Tribal Cultural Resources or archaeological resources or artifacts are encountered.

The program will emphasize the requirement for confidentiality and culturally-appropriate treatment of any discovery of significance to Native Americans and will discuss appropriate behaviors and responsive actions, consistent with Native American Tribal values.

13-2 Due to the cultural sensitivity of the project area, the following mitigation measure is intended to address the potential for buried Tribal Cultural Resources (TCRs) that may be unearthed during ground disturbing activities.

A minimum of seven days prior to beginning earthwork, clearing and grubbing, or other soil disturbing activities, the applicant shall notify lead agency of the proposed earthwork startdate. The lead agency shall contact the consulting Native American tribes (Tribes) with the proposed earthwork start-date and a Tribal Representative or Tribal Monitor shall be invited to inspect the project site, including any soil piles, trenches, or other disturbed areas, within the first five days of groundbreaking activity, or as appropriate for the type and size of project. During this inspection, a Tribal Representative or Tribal Monitor may provide an on-site meeting for construction personnel information on TCRs and workers awareness brochure.

If any TCRs are encountered during this initial inspection, or during any subsequent construction activities, work shall be suspended within 100 feet of the find and the measures included in the **Inadvertent/Unanticipated Discoveries Mitigation Measure** [MM 13-3] shall be implemented.

Preservation in place is the preferred alternative under CEQA and every effort must be made to preserve the resources in place, including through project redesign.

The contractor shall implement any measures deemed by CEQA lead agency (The City) to be necessary and feasible to preserve in place, avoid, or minimize significant effects to the resources, including the use of a paid Native American Monitor during ground disturbing activities.

13-3 In the Event that Tribal Cultural Resources are Discovered During Construction, Implement Procedures to Evaluate Tribal Cultural Resources and Implement Avoidance and Minimization Measures to Avoid Significant Impact.

If archaeological resources, or tribal cultural resources, are encountered in the project area during construction, the following performance standards shall be met prior to continuance of construction and associated activities that may result in damage to or destruction of tribal cultural resources:

• Each resource will be evaluated for California Register of Historical Resources (CRHR) eligibility through application of established eligibility criteria (California Code of Regulations 15064.636), in consultation with consulting Native American Tribes.

If a tribal cultural resource is determined to be eligible for listing on the CRHR, the City will avoid damaging effects to the resource in accordance with California PRC Section 21084.3, if feasible. If the City determines that the project may cause a significant impact to a tribal cultural resource, and measures are not otherwise identified in the consultation process, the following are examples of mitigation capable of avoiding or substantially lessening potential significant impacts to a tribal cultural resource or alternatives that would avoid significant impacts to the resource. These measures may be considered to avoid or minimize significant adverse impacts and constitute the standard by which an impact conclusion of less-than significant may be reached:

- Avoid and preserve resources in place, including, but not limited to, planning construction to avoid the resources and protect the cultural and natural context, or planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.
- Treat the resource with culturally appropriate dignity taking into account the Tribal cultural values and meaning of the resource, including, but not limited to, the following:
 - Protect the cultural character and integrity of the resource.
 - Protect the traditional use of the resource.
 - Protect the confidentiality of the resource.

- Establish permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or using the resources or places.
- o Rebury the resource in place.
- Protect the resource.

Avoidance and preservation in place is the preferred manner of mitigating impacts to tribal cultural resources and archaeological resources and will be accomplished, if feasible, by several alternative means, including:

- Planning construction to avoid tribal cultural resources, archaeological sites and/or other resources; incorporating sites within parks, green-space or other open space; covering archaeological sites; deeding a site to a permanent conservation easement; or other preservation and protection methods agreeable to consulting parties and regulatory authorities with jurisdiction over the activity.
- Recommendations for avoidance of tribal cultural resources and Native American archaeological sites will be reviewed by the City representative, interested culturally affiliated Native American Tribes and other appropriate agencies, in light of factors such as costs, logistics, feasibility, design, technology and social, cultural and environmental considerations, and the extent to which avoidance is consistent with project objectives. Avoidance and design alternatives may include realignment within the project area to avoid cultural resources, modification of the design to eliminate or reduce impacts to cultural resources or modification or realignment to avoid highly significant features within a cultural resource.
- Native American Representatives from interested culturally affiliated Native American Tribes will be allowed to review and comment on these analyses and shall have the opportunity to meet with the City representative and its representatives who have technical expertise to identify and recommend feasible avoidance and design alternatives, so that appropriate and feasible avoidance and design alternatives can be identified.
- If the discovered resource can be avoided, the construction contractor(s), will
 install protective fencing outside the site boundary, including a 100-foot buffer
 area, before construction restarts. The boundary of a tribal cultural resource or a
 Native American archaeological site will be determined in consultation with
 interested culturally affiliated Native American Tribes and such Tribes will be
 invited to monitor the installation of fencing. Use of temporary and permanent
 forms of protective fencing will be determined in consultation with Native American
 Representatives from interested culturally affiliated Native American Tribes.
- The construction contractor(s) will maintain the protective fencing throughout construction to avoid the site during all remaining phases of construction. The area will be demarcated as an "Environmentally Sensitive Area".
- Native American Representatives from interested culturally affiliated Native American Tribes and the City representative will also consult to develop measures for long term management of any discovered tribal cultural resources. Consultation will be limited to actions consistent with the jurisdiction of the City and taking into account ownership of the subject property. To the extent that the City has jurisdiction, routine operation and maintenance within tribal cultural resources retaining tribal cultural integrity shall be consistent with the avoidance and minimization standards identified in this mitigation measure.

To implement these avoidance and minimization standards, the following procedures shall be followed in the event of the discovery of a tribal cultural resource:

 If any tribal archaeological resources or Native American materials, such as structural features, unusual amounts of bone or shell, artifacts, human remains, or Native American architectural remains or articulated or disarticulated human remains are discovered on the project site, work shall be suspended within 100 feet of the find (based on the apparent distribution of cultural resources), and the construction contractor shall immediately notify the project's City representative.

- The City shall coordinate the investigation of the find with a qualified (meeting the Secretary of the Interior's Qualification Standards for Archaeology) archaeologist approved by the City and with one or more interested culturally affiliated Native American Tribes that respond to the City's invitation. As part of the site investigation and resource assessment, the City and the archaeologist shall consult with interested culturally affiliated Native American Tribes to assess the significance of the find, make recommendations for further evaluation and treatment as necessary and provide proper management recommendations should potential impacts to the resources be determined by the City to be significant. A written report detailing the site assessment, coordination activities, and management recommendations shall be provided to the City representative by the qualified archaeologist. These recommendations will be documented in the project record. For any recommendations made by interested culturally affiliated Native American Tribes which are not implemented, a justification for why the recommendation was not followed will be provided in the project record.
- The City shall consider management recommendations for tribal cultural resources, including Native American archaeological resources, that are deemed appropriate, including resource avoidance or, where avoidance is infeasible in light of project design or layout or is unnecessary to avoid significant effects, preservation in place or other measures. The contractor shall implement any measures deemed by the City to be necessary and feasible to avoid or minimize significant impacts to the cultural resources. These measures may include inviting an interested culturally affiliated Native American Tribe to monitor ground-disturbing activities whenever work is occurring within 100 feet of the location of a discovered tribal cultural resource or Native American archaeological site.
- If an adverse impact to tribal cultural resources, including Native American archaeological resources, occurs then consultation with interested culturally affiliated Tribes regarding mitigation contained in the Public Resources Code sections 21084.3(a) and (b) and CEQA Guidelines section 15370 shall occur, in order to identify mitigation for the impact.

13-4 Implement Procedures in the Event of the Inadvertent Discovery of Native American Human Remains.

If an inadvertent discovery of Native American human remains is made at any time during project-related construction activities or project planning, the City will implement the procedures listed above in Mitigation Measure 13-2. The following performance standards shall be met prior to implementing or continuing actions such as construction, that may result in damage to or destruction of human remains: In accordance with the California Health and Safety Code, if human remains are encountered during ground-disturbing activities, the City shall immediately halt potentially damaging excavation in the area of the burial and notify the Sacramento County Coroner and a professional archaeologist to determine the nature of the remains. The Coroner is required to examine all discoveries of human remains within 48 hours of receiving notice of a discovery on private or State lands (California Health and Safety Code Section 7050.5[b]). If the Coroner determines that the remains are those of a Native American, he or she must contact the Native American Heritage Commission (NAHC) by phone within 24 hours of making that determination (California Health and Safety Code Section 7050[c]). After the Coroner's findings have been made, the archaeologist and the NAHC-designated Most Likely Descendant (MLD), in consultation with the landowner, shall determine the ultimate treatment and disposition

of the remains. The responsibilities of the City for acting upon notification of a discovery of Native American human remains are identified in California PRC Section 5097.9 et seq.

If the human remains are of historic age and are determined to be not of Native American origin, the City will follow the provisions of the California Health and Safety Code Section 7000 (et seq.) regarding the disinterment and removal of non-Native American human remains.

FINDINGS

All additional significant environmental effects of the project relating to Tribal Cultural Resources can be mitigated to a less-than-significant level.

Issues	:	Effect will be studied in the EIR	Effect can be mitigated to less than significant	No additional significant environmental effect
14. <u>UT</u> Would A)	ILITIES AND SERVICE SYSTEMS the project: Result in the determination that adequate capacity is not available to serve the project's demand in addition to existing commitments?			Х
В)	Require or result in either the construction of new utilities or the expansion of existing utilities, the construction of which could cause significant environmental impacts?			Х

ENVIRONMENTAL SETTING

The project site's existing utilities and service systems are discussed below.

Wastewater

Wastewater collection and treatment services for the proposed project would be provided by the SASD and the SRCSD. Wastewater generated from the project area is collected in the SASD system through a series of sewer pipes and pump stations. Once collected in the SASD system, sewage flows into the SRCSD interceptor system, where the sewage is conveyed to the SRWWTP located near Elk Grove. The City's Department of Utilities is responsible for providing and maintaining the majority of the water, sewer collection, storm drainage, and flood control services for residents and businesses within City limits. The project would connect to the existing sanitary sewer main located in Natomas Park Drive through a network of eight-inch sewer lines.

Water Supply

The City uses surface water from the Sacramento and American rivers to meet the majority of its water demands. To meet the City's water demand, the City uses surface water from the Sacramento and American rivers, and groundwater pumped from the North American and South American Subbasins. According to the City's 2015 Urban Water Management Plan (UWMP), the City has a current total of 275,917 acre-feet per year (AFY) in water supplies during dry years and expects the total to increase to 294,419 AFY by 2035. The total City retail water demand in 2015 was 84,832 AFY and is expected to increase to 149,213 AFY in 2035. According to the Department of Utilities' 2019 Consumer Confidence Report, the City's drinking water meets or exceeds all federal and State drinking water standards.¹⁸ The project would connect to the existing water main located in Natomas Park Drive through a network of water lines.

Solid Waste Disposal

The City of Sacramento does not provide commercial solid waste collection services. Rather, commercial garbage, recycling, and yard waste services are provided by a franchised hauler authorized by the Sacramento Solid Waste Authority to collect commercial garbage and commingled recycling within the City. The Sacramento County Kiefer Landfill, located at 12701 Kiefer Boulevard in Sloughhouse, California, is the primary location for the disposal of waste for the City. According to the Master EIR, the Kiefer Landfill should serve the City adequately until the year 2065. As growth continues in the City, in accordance with the County General Plan and the City's General Plan, population would increase and the solid waste stream

¹⁸ City of Sacramento Department of Utilities. 2019 Consumer Confidence Report. Available at: https://www.cityofsacramento.org/-/media/Water-Quality/CCR_web_r071020.pdf?la=en. Accessed March 2021.

would continue to grow. However, implementation of the Solid Waste Authority and the Sacramento recycling requirements, would continue to significantly reduce potential cumulative impact on landfill capacity to a less-than-significant effect.

STANDARDS OF SIGNIFICANCE

For the purposes of this Initial Study, an impact would be considered significant if the project resulted in the following:

- Result in the determination that adequate capacity is not available to serve the project's demand in addition to existing commitments; or
- Require or result in either the construction of new utilities or the expansion of existing utilities, the construction of which could cause significant environmental impacts.

SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES

The Master EIR evaluated the effects of development under the 2035 General Plan on water supply, sewer and storm drainage, solid waste, electricity, natural gas and telecommunications. See Chapter 4.11.

The Master EIR evaluated the impacts of increased demand for water that would occur with development under the 2035 General Plan. Policies in the general plan would reduce the impact generally to a less-thansignificant level (see Impact 4.11-1) but the need for new water supply facilities results in a significant and unavoidable effect (Impact 4.11-2). The potential need for expansion of wastewater treatment facilities was identified as having a significant and unavoidable effect (Impacts 4.11-4, 4.11-5). Impacts on solid waste facilities were less than significant (Impacts 4.11-7, 4.11-8).

ANSWERS TO CHECKLIST QUESTIONS

Questions A and B

The project site is currently developed and, therefore, connected to existing utilities and service systems. The project site is located adjacent to existing development, including a multi-family residential complex and commercial development. The nearby developments are connected to the City's water and utilize existing solid waste disposal services, as well as SASD's wastewater services. The proposed project would connect to the existing water and sewer lines adjacent to the site.

Wastewater

As discussed above, the proposed project would be provided wastewater collection and treatment services by the SASD and the SRCSD. Wastewater generated by the proposed project would be collected in the SASD system. SASD requires each building on each lot to have a separate connection to SASD's sewer system. Multiple buildings located within a single parcel must have a separate connection the SASD public sewer line. Once collected, the sewage would flow into the SRCSD interceptor system, where the sewage would be conveyed to the SRWWTP.

Based on an average wastewater generation rate of 310 gallons per day per unit, the proposed project is anticipated to generate approximately 58,900 gallons per day, or 0.06 million gallons per day (mgd). The existing permitted capacity at the SRWWTP is 181 mgd.¹⁹ Per the SRWWTP's NPDES Permit (No. CA0077682), adopted in April of 2016, the average dry weather flow at that time was approximately 120

¹⁹ Sacramento Regional Community Services District. *Final Executive Summary: Sacramento Regional Wastewater Treatment Plant* [pg 7]. May 2008.

mgd.²⁰ Therefore, adequate capacity exists to treat the additional 0.06 mgd of wastewater that would be generated by the proposed project.

Furthermore, the project's consistency the allowable uses for the General Plan land use designation would ensure the demand for wastewater service would not exceed the amount anticipated for buildout of the Planning Area evaluated in the Master EIR. In addition, buildout capacity of the entire SASD service area was anticipated in the 2018 Sewer System Management Plan (SSMP).²¹ As such, SASD has anticipated the need for wastewater services in the project area and requires development impact fees to support buildout demand of their service area (including the project site). Policy U 4.1.1 in the Master EIR requires the City to ensure that all new drainage facilities are adequality sized to accommodate stormwater runoff. Additionally, the SRCSD would require payment of sewer impact fees. All applicable impact fees would be required to be paid prior to issuance of a building permit.

Given the required payment of applicable impact fees, the SRCSD would be able to provide sufficient wastewater services and conveyance to serve full buildout of the City, including the project site, per the Master EIR. Therefore, adequate capacity exists to serve the project site's demands.

Water Supply

The City is responsible for providing and maintaining water service for the project site. The 2015 UWMP analyzed the water supply, water demand, and water shortage contingency planning for the City's service area, which would include the project site. According to the 2015 UWMP, under all drought conditions, the City possesses sufficient water supply entitlements to meet the demands of the City's customers up to the year 2035.²²

According to the 2015 UWMP, to obtain population projections for the year 2040, an assumption of a continued growth rate within the current service area and sphere of influence, consistent with the General Plan, was used. As a result, even though the project site was already developed with the existing sports club at the time that the 2015 UWMP was prepared, the population growth associated with redevelopment of the site with residential uses was accounted for in the regional growth estimates. Thus, the population growth associated with implementation of the proposed project was included within the growth projections evaluated in the 2015 UWMP.

As such, adequate capacity is expected to be available to serve the proposed project's water demands. The proposed project is consistent with land use and zoning designations and would not generate an increase in demand from what has already been anticipated in the Master EIR. As such, adequate capacity is expected to be available to serve the proposed project's water demands.

Solid Waste

Solid waste collected at residential uses in the area is currently disposed of at the Kiefer Landfill. Kiefer Landfill, located at 12701 Kiefer Boulevard in Sloughhouse, California, is the primary location for the disposal of waste by the City. According to the Master EIR, the landfill is permitted to accept up to 10,815 tons per day and the current peak and average daily disposal is substantially lower than the permitted amount. The landfill is anticipated to be capable of adequately serving the area, including the anticipated population growth, until the year 2065.

²⁰ California Regional Water Quality Control Board, Central Valley Region. Order No. R5-2016-0020-01 NPDES No. CA0077682 [pg I-7]. April 2016.

²¹ Sacramento Area Sewer District. Sewer System Management Plan. June 8, 2018.

²² City of Sacramento. 2015 Urban Water Management Plan. Available at: https://www.cityofsacramento.org/-/media/Corporate/Files/DOU/Reports/City-of-Sacramento-Final-2015-UWMP-June-2016.pdf?la=en. Accessed March 2021.

Per the CalRecycle Jurisdiction Diversion/Disposal Rate Summary for Sacramento, the most recently approved (2015) annual per capita disposal rate is 5.8 pounds per day per resident.²³ Given that the proposed project would house approximately 507 future residents,²⁴ operation of the proposed project would generate approximately 2,941 pounds of waste per day (1.5 tons). Operational waste generation of 1.5 tons per day would equal approximately 0.01 percent of the Kiefer Landfill's remaining daily capacity. Therefore, the proposed project's operational waste generation could be accommodated by the existing capacity of the Kiefer Landfill.

Conclusion

Because adequate capacity exists to serve the project's demands in addition to existing commitments, and construction of new utilities or expansion of existing facilities would not be required, implementation of the proposed project would result in *no additional environmental effects* beyond what was analyzed in the 2035 Master EIR.

MITIGATION MEASURES

None required.

FINDINGS

The project would have no additional project-specific environmental effects relating to Utilities and Service Systems.

 ²³ CalRecycle. Jurisdiction Diversion/Disposal Rate Summary (2007 – Current). Available at: https://www2.calrecycle.ca.gov/LGCentral/DiversionProgram/JurisdictionDiversionPost2006. Accessed July 2021.
 ²⁴ This population estimate is based on the result of the CalEEMod modeling. See Appendix.

Issues:		Effect will be studied in the EIR	Effect can be mitigated to less than significant	No additional significant environmental effect
15. <u>M</u> A	NDATORY FINDINGS OF SIGNIFICANCE			
A.)	Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?		х	
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.)		Х	
C.)	Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?		Х	

ANSWERS TO CHECKLIST QUESTIONS

Question A

Implementation of the proposed project would have the potential to adversely impact special-status animals and previously undiscovered cultural, tribal cultural resources, and/or human remains. The proposed project would implement and comply with applicable Sacramento 2035 General Plan policies, as discussed throughout this IS/MND. With implementation of the mitigation measures required by this IS/MND, compliance with 2035 General Plan policies, and application of standard BMPs during construction, development of the proposed project would not result in any of the following: 1) degrade the quality of the environment; 2) substantially reduce or impact the habitat of fish or wildlife species; 3) cause fish or wildlife populations to drop below self-sustaining levels; 4) threaten to eliminate a plant or animal community; 5) reduce the number or restrict the range of a rare or endangered plant or animal; or 6) eliminate important examples of the major periods of California history or prehistory. Therefore, with implementation of the mitigation measures included in this IS/MND, the *effect can be mitigated to less than significant*.

Question B

The proposed project is an allowed use under the project site's General Plan land use designation, and the population growth associated with development of the proposed project was accounted for in the regional population growth projection evaluated in the City's 2035 General Plan EIR. Thus, the population growth associated with development of the project was included in the cumulative analysis of City buildout in the Master EIR. Applicable policies from the 2035 General Plan would be implemented as part of the proposed project's contribution to potentially cumulative impacts. The potential impacts of the proposed project would be individually limited and would not be cumulatively considerable. As demonstrated in this IS/MND, all potential environmental impacts that could occur as a result of project implementation would be reduced to a less-than-significant level with implementation of project-specific mitigation measures and compliance

with applicable 2035 General Plan policies. When viewed in conjunction with other closely related past, present or reasonably foreseeable future projects, development of the proposed project would not contribute to cumulative impacts in the City. Therefore, with implementation of the mitigation measures included in this IS/MND, the *effect can be mitigated to less than significant.*

Question C

Implementation of the proposed project could result in temporary impacts related to hazards during the construction period. The proposed project would be required to implement the project-specific mitigation measures within this IS/MND, as well as applicable policies of the 2035 General Plan, to reduce any potential direct or indirect impacts that could occur to human beings or various resources and, as demonstrated in this IS/MND, with implementation of the identified mitigation measures, all impacts would be reduced to less-than-significant levels. Therefore, with implementation of the mitigation measures included in this IS/MND, the *effect can be mitigated to less than significant*.

SECTION IV - ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

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

	Aesthetics		Hazards
Х	Air Quality		Noise
Х	Biological Resources		Public Services
Х	Cultural Resources		Recreation
	Energy and Mineral Resources		Transportation/Circulation
Х	Geology and Soils	Х	Tribal Cultural Resources
	Hydrology and Water Quality		Utilities and Service Systems
	None Identified		

SECTION V - DETERMINATION

On the basis of the initial study:

I find that (a) the proposed project is an anticipated subsequent project identified and described in the 2035 General Plan Master EIR; (b) the proposed project is consistent with the 2035 General Plan land use designation and the permissible densities and intensities of use for the project site; (c) that the discussions of cumulative impacts, growth inducing impacts, and irreversible significant effects in the Master EIR are adequate for the proposed project; and (d) the proposed project will have additional significant environmental effects not previously examined in the Master EIR. A Mitigated Negative Declaration will be prepared. Mitigation measures from the Master EIR will be applied to the project as appropriate, and additional feasible mitigation measures and alternatives will be incorporated to revise the proposed project before the negative declaration is circulated for public review, to avoid or mitigate the identified effects to a level of insignificance. (CEQA Guidelines Section 15178(b))

Scott Johnson

Signature

August 16, 2021

Date

Scott Johnson, Senior Planner Printed Name

REFERENCES CITED

It should be noted that all of the technical reports used for the purposes of the analysis throughout this Initial Study are available upon request to staff at the City of Sacramento Community Development Department located at 300 Richards Boulevard, Third Floor, Sacramento, CA 95811. The following documents are referenced information sources used for the analysis within this Initial Study:

- 1. Analytical Environmental Services. *Phase I Environmental Site Assessment for Demmon Partners* 2450 Natomas Park Drive. January 2021.
- 2. California Department of Conservation. *California Important Farmland Finder*. Available at: https://maps.conservation.ca.gov/DLRP/CIFF/. Accessed March 2021.
- California Department of Transportation. California Scenic Highway Mapping System, Sacramento County. Available at: https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=2e921695c4 3643b1aaf7000dfcc19983. Accessed March 2021.
- 4. California Department of Transportation. *Transportation and Construction Vibration Guidance Manual*. September 2013.
- 5. California Regional Water Quality Control Board, Central Valley Region. Order No. R5-2016-0020-01 NPDES No. CA0077682. April 2016.
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- 8. City of Sacramento. 2015 Urban Water Management Plan. Available at: https://www.cityofsacramento.org/-/media/Corporate/Files/DOU/Reports/City-of-Sacramento-Final-2015-UWMP-June-2016.pdf?la=en. Accessed March 2021.
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- 10. KC Consultants. *Geotechnical Exploration Report on Proposed Natomas Park Drive Apartments.* June 2015.
- 11. Metro Fire Sacramento. *About Us.* Available at: https://metrofire.ca.gov/about-us. Accessed March 2021.
- 12. National Wetlands Inventory. *Wetlands Mapper.* Available at: https://www.fws.gov/wetlands/data/mapper.html. Accessed July 2021.
- 13. Natomas Unified School District. *Overview.* Available at: https://natomasunified.org/about-us/. Accessed March 2021.
- 14. Office of Environmental Health Hazard Assessment. Air Toxics Hot Spots Program Risk Assessment Guidelines, Guidance Manual for Preparation of Health Risk Assessments. February 2015.
- 15. Regas Group Environmental Consultants. Asbestos Inspection and Report. June 4, 2021.
- 16. Regional San. *Impact Fees.* Available at: https://www.regionalsan.com/impact-fees-businesses. Accessed March 2021.
- 17. Sacramento Area Sewer District. Sewer Ordinance SDI-0072. Effective May 27, 2016.
- 18. Sacramento Area Sewer District. Sewer System Management Plan. June 8, 2018.
- 19. Sacramento Metropolitan Air Quality Management District. *Guide to Air Quality Assessment, Chapter 4: Operational Criteria Air Pollutant and Precursor Emissions.* June 2020.
- 20. Sacramento Metropolitan Air Quality Management District. SMAQMD Operational Screening Levels. April 2018.
- 21. Sacramento Regional Community Services District. *Final Executive Summary: Sacramento Regional Wastewater Treatment Plant*. May 2008.

- 22. U.S. Environmental Protection Agency. User's Guide for the AMS/EPA Regulatory Model (AERMOD). December 2016.
- 23. United States Department of Agriculture. *Natural Resources Conservation Science*. Available at: https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx. Accessed May 2021.

APPENDIX

Natomas Park Drive Apartments

Sacramento Metropolitan AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	353.00	Space	4.06	141,200.00	0
Apartments Mid Rise	190.00	Dwelling Unit	5.00	190,000.00	507

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2024
Utility Company	Sacramento Municipal Utili	ty District			
CO2 Intensity (Ib/MWhr)	369.35	CH4 Intensity (Ib/MWhr)	0.029	N2O Intensity 0 (Ib/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor adjusted per SMUD's RPS projections.

Land Use - Lot acreage adjusted per site plan.

Construction Phase - Construction phase timing adjusted based on applicant-provided questionnaire.

Demolition -

Grading -

Vehicle Trips - Trip generation rate adjusted for consistency with City-provided information.

Mobile Land Use Mitigation - Project would improve pedestrian network connectivity on-site.

Area Mitigation - No hearths.

Energy Mitigation - Title 24 exceedance applied to reflect compliance with 2019 CBSC.

Water Mitigation - Water conservation strategy applied to reflect complaince with 2019 CalGreen Code and MWELO.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	400.00
tblConstructionPhase	NumDays	230.00	400.00
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	10.00	80.00
tblLandUse	LotAcreage	3.18	4.06
tblProjectCharacteristics	CO2IntensityFactor	590.31	369.35
tblVehicleTrips	ST_TR	6.39	5.08
tblVehicleTrips	SU_TR	5.86	5.08
tblVehicleTrips	WD_TR	6.65	5.08

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

266.6233	0000.0	7880.0	5184.493	5184.493	0000.0	0.5503	6401.0	\$\$\$ 4 .0	6096.0	2611.0	£7£8.0	003 9:34006-	4198.2	1775.2	9168.0	mumixeM
1784.874	0000.0	0.0625	476.9235	476.9235	0000.0	2911.0	0440.0	0.0522	8192.0	9290.0	2491.0	003 2'3200e-	2.3063	3118.1	7 998.0	5024
566.6233	0000.0	7380.0	3184.493	3184.493	0000.0	9171.0	2060'0	6080.0	7 996.0	7 960.0	0092.0	003 6.3400e-	4188.2	2.3462	9168.0	5023
284.3882	0000.0	0£80.0	282.3140	282.3140	0000.0	0.5503	6401.0	t9tt.0	6096.0	7611.0	£7£8.0	-90013. 3.2100e-	72Eð.1	1775.2	0.2353	5022
MT/yr · · · ·							jųksuot								Year	
CO2e	N2O	CH4	Total CO2	NBio- CO2	Bio- CO2	8.SM9 Total	tsuaust 7.5Mq	Fugitive PM2.5	0rM9 IstoT	tsusta DfMq	Fugitive PM10	SO2	00	XON	ROG	

Mitigated Construction

£66.6229	0000.0	<i>1</i> 580.0	1184.483	F184.4871	0000.0	0.5503	6401.0	t2454	6096.0	2811.0	£7£8.0	003 9:34006-	2.8614	1775.2	91 <u>68.</u> 0	mumixeM
8984.874	0000.0	0.0625	476.9232	476.9232	0000.0	2911.0	0790.0	0.0522	8192.0	9290'0	2491.0	003 2'3200e-	2.3063	3118.1	7 998.0	5024
566.6229 5	0000.0	7880.0	1184.483	1184.493	0000.0	9171.0	2060.0	6080 [.] 0	0:3264	7 960 [.] 0	0.2600	-900 1 003 903	4188.2	2.3462	9168.0	5023
284 [.] 3879	0000.0	0£80.0	7616.282	7616.282	0000.0	0.5503	6401.0	7974°	6096.0	7611.0	£7£8.0	3.2100e- 003	1.6327	1778.2	0.2353	5022
TW/yr ۲							ry/snot								Үеаг	
CO2e	N2O	CH4	Total CO2	NBio- CO2	Bio- CO2	PM2.5 Total	Exhaust 7.5 7	Fugitive PM2.5	PM10 IstoT	PM10 Exhaust	Fugitive PM10	SO2	00	XON	BOB	

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-15-2022	8-14-2022	0.9784	0.9784
2	8-15-2022	11-14-2022	1.1945	1.1945
3	11-15-2022	2-14-2023	0.6813	0.6813
4	2-15-2023	5-14-2023	0.6757	0.6757
5	5-15-2023	8-14-2023	0.9294	0.9294
6	8-15-2023	11-14-2023	0.9306	0.9306
7	11-15-2023	2-14-2024	0.9109	0.9109
8	2-15-2024	5-14-2024	0.8687	0.8687
9	5-15-2024	8-14-2024	0.8869	0.8869
10	8-15-2024	9-30-2024	0.4323	0.4323
		Highest	1.1945	1.1945

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e			
Category					ton	s/yr					MT/yr								
Area	0.9313	0.0226	1.9631	1.0000e- 004		0.0109	0.0109		0.0109	0.0109	0.0000	3.2094	3.2094	3.0900e- 003	0.0000	3.2868			
Energy	9.9900e- 003	0.0853	0.0363	5.4000e- 004		6.9000e- 003	6.9000e- 003		6.9000e- 003	6.9000e- 003	0.0000	242.6064	242.6064	0.0132	4.1500e- 003	244.1719			
Mobile	0.2434	1.0176	2.8581	9.9200e- 003	0.9231	7.7400e- 003	0.9308	0.2474	7.2200e- 003	0.2546	0.0000	913.1253	913.1253	0.0399	0.0000	914.1232			
Waste						0.0000	0.0000		0.0000	0.0000	17.7414	0.0000	17.7414	1.0485	0.0000	43.9536			
Water						0.0000	0.0000		0.0000	0.0000	4.3798	14.9099	19.2897	0.0163	9.7700e- 003	22.6064			
Total	1.1847	1.1256	4.8575	0.0106	0.9231	0.0255	0.9486	0.2474	0.0250	0.2724	22.1212	1,173.851 0	1,195.972 2	1.1209	0.0139	1,228.141 7			

2.2 Overall Operational

Mitigated Operational

	ROG	NO	X	СО	SO2	Fug PN	itive 110	Exhaust PM10	PM10 Total	Fugi PM	itive E 12.5	Exhaust PM2.5	PM2 To	2.5 tal	Bio- CC	02 NBio	o- CO2	Total CO2	CI	H4	N2O	CO	2e
Category							tons	s/yr										N	IT/yr				
Area	0.9313	0.02	26 1	.9631	1.0000 004)- 		0.0109	0.0109			0.0109	0.01	109	0.000) 3.2	2094	3.2094	3.09 00	00e- 03	0.0000	3.28	368
Energy	9.4800e- 003	0.08	10 0	.0345	5.2000 004)		6.5500e- 003	6.5500e 003		6	6.5500e- 003	6.550 00	00e-)3	0.000) 93.	8257	93.8257	1.80 00	00e- 03	1.7200e- 003	94.3	832
Mobile	0.2341	0.96	11 2	.6177	8.9000 003	e- 0.8	225	7.0200e- 003	0.8295	0.2	204 6	6.5400e- 003	0.22	270	0.000) 819	.8429	819.8429	0.0	365	0.0000	820.7	'549
Waste								0.0000	0.0000			0.0000	0.00	000	17.741	4 0.0	0000	17.7414	1.0	485	0.0000	43.9	536
Water								0.0000	0.0000			0.0000	0.00	000	3.503	3 11.	9279	15.4318	0.0	130	7.8100e- 003	18.0	851
Total	1.1749	1.06	48 4	.6153	9.5200 003	€- 0.8	225	0.0244	0.8469	0.2	204	0.0240	0.24	444	21.245	3 928	.8058	950.0511	1.1	029	9.5300e- 003	980.4	636
	ROG		NOx	C	0	SO2	Fugi PM	tive Exh 110 P	naust I M10	PM10 Total	Fugitiv PM2.	/e Exi 5 Pi	haust M2.5	PM2.5 Tota	5 Bi	o- CO2	NBio-C	CO2 Tota	I CO2	CH4	N	20	CO2e
Percent Reduction	0.83		5.40	4.	99	9.85	10.	.90 4	.19	10.72	10.90) 4	1.12	10.28	8	3.96	20.8	8 20	.56	1.61	31	.54	20.17

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/15/2022	8/5/2022	5	60	
2	Site Preparation	Site Preparation	8/6/2022	11/25/2022	5	80	
3	Grading	Grading	11/26/2022	1/20/2023	5	40	
4	Paving	Paving	1/21/2023	3/17/2023	5	40	
5	Building Construction	Building Construction	3/18/2023	9/27/2024	5	400	
6	Architectural Coating	Architectural Coating	4/1/2023	10/11/2024	5	400	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 20

Acres of Paving: 4.06

Residential Indoor: 384,750; Residential Outdoor: 128,250; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 8,472 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	155.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	196.00	43.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	39.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr												МТ	/yr		
Fugitive Dust					0.0175	0.0000	0.0175	2.6400e- 003	0.0000	2.6400e- 003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0792	0.7716	0.6178	1.1600e- 003		0.0373	0.0373		0.0347	0.0347	0.0000	101.9707	101.9707	0.0286	0.0000	102.6868
Total	0.0792	0.7716	0.6178	1.1600e- 003	0.0175	0.0373	0.0547	2.6400e- 003	0.0347	0.0373	0.0000	101.9707	101.9707	0.0286	0.0000	102.6868

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton				MT	/yr						
Hauling	5.2000e- 004	0.0187	4.4800e- 003	6.0000e- 005	1.3100e- 003	6.0000e- 005	1.3700e- 003	3.6000e- 004	6.0000e- 005	4.2000e- 004	0.0000	5.7900	5.7900	3.3000e- 004	0.0000	5.7983
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4600e- 003	9.2000e- 004	0.0105	3.0000e- 005	3.3000e- 003	2.0000e- 005	3.3300e- 003	8.8000e- 004	2.0000e- 005	9.0000e- 004	0.0000	2.7273	2.7273	7.0000e- 005	0.0000	2.7290
Total	1.9800e- 003	0.0197	0.0150	9.0000e- 005	4.6100e- 003	8.0000e- 005	4.7000e- 003	1.2400e- 003	8.0000e- 005	1.3200e- 003	0.0000	8.5173	8.5173	4.0000e- 004	0.0000	8.5272

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr												МТ	/yr		
Fugitive Dust					0.0175	0.0000	0.0175	2.6400e- 003	0.0000	2.6400e- 003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0792	0.7716	0.6178	1.1600e- 003		0.0373	0.0373		0.0347	0.0347	0.0000	101.9706	101.9706	0.0286	0.0000	102.6866
Total	0.0792	0.7716	0.6178	1.1600e- 003	0.0175	0.0373	0.0547	2.6400e- 003	0.0347	0.0373	0.0000	101.9706	101.9706	0.0286	0.0000	102.6866
3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	5.2000e- 004	0.0187	4.4800e- 003	6.0000e- 005	1.3100e- 003	6.0000e- 005	1.3700e- 003	3.6000e- 004	6.0000e- 005	4.2000e- 004	0.0000	5.7900	5.7900	3.3000e- 004	0.0000	5.7983
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4600e- 003	9.2000e- 004	0.0105	3.0000e- 005	3.3000e- 003	2.0000e- 005	3.3300e- 003	8.8000e- 004	2.0000e- 005	9.0000e- 004	0.0000	2.7273	2.7273	7.0000e- 005	0.0000	2.7290
Total	1.9800e- 003	0.0197	0.0150	9.0000e- 005	4.6100e- 003	8.0000e- 005	4.7000e- 003	1.2400e- 003	8.0000e- 005	1.3200e- 003	0.0000	8.5173	8.5173	4.0000e- 004	0.0000	8.5272

3.3 Site Preparation - 2022

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					0.7227	0.0000	0.7227	0.3972	0.0000	0.3972	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1268	1.3233	0.7879	1.5200e- 003		0.0645	0.0645		0.0593	0.0593	0.0000	133.7576	133.7576	0.0433	0.0000	134.8391
Total	0.1268	1.3233	0.7879	1.5200e- 003	0.7227	0.0645	0.7872	0.3972	0.0593	0.4566	0.0000	133.7576	133.7576	0.0433	0.0000	134.8391

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3300e- 003	1.4600e- 003	0.0168	5.0000e- 005	5.2900e- 003	4.0000e- 005	5.3200e- 003	1.4100e- 003	3.0000e- 005	1.4400e- 003	0.0000	4.3637	4.3637	1.1000e- 004	0.0000	4.3663
Total	2.3300e- 003	1.4600e- 003	0.0168	5.0000e- 005	5.2900e- 003	4.0000e- 005	5.3200e- 003	1.4100e- 003	3.0000e- 005	1.4400e- 003	0.0000	4.3637	4.3637	1.1000e- 004	0.0000	4.3663

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Fugitive Dust			1		0.7227	0.0000	0.7227	0.3972	0.0000	0.3972	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1268	1.3233	0.7879	1.5200e- 003		0.0645	0.0645		0.0593	0.0593	0.0000	133.7574	133.7574	0.0433	0.0000	134.8389
Total	0.1268	1.3233	0.7879	1.5200e- 003	0.7227	0.0645	0.7872	0.3972	0.0593	0.4566	0.0000	133.7574	133.7574	0.0433	0.0000	134.8389

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	'/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3300e- 003	1.4600e- 003	0.0168	5.0000e- 005	5.2900e- 003	4.0000e- 005	5.3200e- 003	1.4100e- 003	3.0000e- 005	1.4400e- 003	0.0000	4.3637	4.3637	1.1000e- 004	0.0000	4.3663
Total	2.3300e- 003	1.4600e- 003	0.0168	5.0000e- 005	5.2900e- 003	4.0000e- 005	5.3200e- 003	1.4100e- 003	3.0000e- 005	1.4400e- 003	0.0000	4.3637	4.3637	1.1000e- 004	0.0000	4.3663

3.4 Grading - 2022

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					0.0859	0.0000	0.0859	0.0425	0.0000	0.0425	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0244	0.2607	0.1909	3.7000e- 004		0.0118	0.0118		0.0108	0.0108	0.0000	32.5685	32.5685	0.0105	0.0000	32.8318
Total	0.0244	0.2607	0.1909	3.7000e- 004	0.0859	0.0118	0.0976	0.0425	0.0108	0.0533	0.0000	32.5685	32.5685	0.0105	0.0000	32.8318

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1000e- 004	3.8000e- 004	4.3600e- 003	1.0000e- 005	1.3800e- 003	1.0000e- 005	1.3900e- 003	3.7000e- 004	1.0000e- 005	3.7000e- 004	0.0000	1.1364	1.1364	3.0000e- 005	0.0000	1.1371
Total	6.1000e- 004	3.8000e- 004	4.3600e- 003	1.0000e- 005	1.3800e- 003	1.0000e- 005	1.3900e- 003	3.7000e- 004	1.0000e- 005	3.7000e- 004	0.0000	1.1364	1.1364	3.0000e- 005	0.0000	1.1371

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Fugitive Dust					0.0859	0.0000	0.0859	0.0425	0.0000	0.0425	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0244	0.2607	0.1909	3.7000e- 004		0.0118	0.0118		0.0108	0.0108	0.0000	32.5684	32.5684	0.0105	0.0000	32.8318
Total	0.0244	0.2607	0.1909	3.7000e- 004	0.0859	0.0118	0.0976	0.0425	0.0108	0.0533	0.0000	32.5684	32.5684	0.0105	0.0000	32.8318

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	co	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1000e- 004	3.8000e- 004	4.3600e- 003	1.0000e- 005	1.3800e- 003	1.0000e- 005	1.3900e- 003	3.7000e- 004	1.0000e- 005	3.7000e- 004	0.0000	1.1364	1.1364	3.0000e- 005	0.0000	1.1371
Total	6.1000e- 004	3.8000e- 004	4.3600e- 003	1.0000e- 005	1.3800e- 003	1.0000e- 005	1.3900e- 003	3.7000e- 004	1.0000e- 005	3.7000e- 004	0.0000	1.1364	1.1364	3.0000e- 005	0.0000	1.1371

3.4 Grading - 2023

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Fugitive Dust					0.0558	0.0000	0.0558	0.0260	0.0000	0.0260	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0128	0.1345	0.1106	2.2000e- 004		5.8100e- 003	5.8100e- 003		5.3500e- 003	5.3500e- 003	0.0000	19.5455	19.5455	6.3200e- 003	0.0000	19.7035
Total	0.0128	0.1345	0.1106	2.2000e- 004	0.0558	5.8100e- 003	0.0616	0.0260	5.3500e- 003	0.0313	0.0000	19.5455	19.5455	6.3200e- 003	0.0000	19.7035

3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e- 004	2.1000e- 004	2.4000e- 003	1.0000e- 005	8.3000e- 004	1.0000e- 005	8.3000e- 004	2.2000e- 004	1.0000e- 005	2.2000e- 004	0.0000	0.6562	0.6562	1.0000e- 005	0.0000	0.6566
Total	3.4000e- 004	2.1000e- 004	2.4000e- 003	1.0000e- 005	8.3000e- 004	1.0000e- 005	8.3000e- 004	2.2000e- 004	1.0000e- 005	2.2000e- 004	0.0000	0.6562	0.6562	1.0000e- 005	0.0000	0.6566

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Fugitive Dust			1		0.0558	0.0000	0.0558	0.0260	0.0000	0.0260	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0128	0.1345	0.1106	2.2000e- 004		5.8100e- 003	5.8100e- 003		5.3500e- 003	5.3500e- 003	0.0000	19.5454	19.5454	6.3200e- 003	0.0000	19.7035
Total	0.0128	0.1345	0.1106	2.2000e- 004	0.0558	5.8100e- 003	0.0616	0.0260	5.3500e- 003	0.0313	0.0000	19.5454	19.5454	6.3200e- 003	0.0000	19.7035

3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e- 004	2.1000e- 004	2.4000e- 003	1.0000e- 005	8.3000e- 004	1.0000e- 005	8.3000e- 004	2.2000e- 004	1.0000e- 005	2.2000e- 004	0.0000	0.6562	0.6562	1.0000e- 005	0.0000	0.6566
Total	3.4000e- 004	2.1000e- 004	2.4000e- 003	1.0000e- 005	8.3000e- 004	1.0000e- 005	8.3000e- 004	2.2000e- 004	1.0000e- 005	2.2000e- 004	0.0000	0.6562	0.6562	1.0000e- 005	0.0000	0.6566

3.5 Paving - 2023

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Off-Road	0.0207	0.2038	0.2917	4.6000e- 004		0.0102	0.0102		9.3900e- 003	9.3900e- 003	0.0000	40.0537	40.0537	0.0130	0.0000	40.3776
Paving	5.3200e- 003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0260	0.2038	0.2917	4.6000e- 004		0.0102	0.0102		9.3900e- 003	9.3900e- 003	0.0000	40.0537	40.0537	0.0130	0.0000	40.3776

3.5 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.1000e- 004	5.5000e- 004	6.4100e- 003	2.0000e- 005	2.2000e- 003	1.0000e- 005	2.2200e- 003	5.9000e- 004	1.0000e- 005	6.0000e- 004	0.0000	1.7499	1.7499	4.0000e- 005	0.0000	1.7509
Total	9.1000e- 004	5.5000e- 004	6.4100e- 003	2.0000e- 005	2.2000e- 003	1.0000e- 005	2.2200e- 003	5.9000e- 004	1.0000e- 005	6.0000e- 004	0.0000	1.7499	1.7499	4.0000e- 005	0.0000	1.7509

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Off-Road	0.0207	0.2038	0.2917	4.6000e- 004		0.0102	0.0102		9.3900e- 003	9.3900e- 003	0.0000	40.0537	40.0537	0.0130	0.0000	40.3775
Paving	5.3200e- 003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0260	0.2038	0.2917	4.6000e- 004		0.0102	0.0102		9.3900e- 003	9.3900e- 003	0.0000	40.0537	40.0537	0.0130	0.0000	40.3775

3.5 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	co	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.1000e- 004	5.5000e- 004	6.4100e- 003	2.0000e- 005	2.2000e- 003	1.0000e- 005	2.2200e- 003	5.9000e- 004	1.0000e- 005	6.0000e- 004	0.0000	1.7499	1.7499	4.0000e- 005	0.0000	1.7509
Total	9.1000e- 004	5.5000e- 004	6.4100e- 003	2.0000e- 005	2.2000e- 003	1.0000e- 005	2.2200e- 003	5.9000e- 004	1.0000e- 005	6.0000e- 004	0.0000	1.7499	1.7499	4.0000e- 005	0.0000	1.7509

3.6 Building Construction - 2023

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Off-Road	0.1612	1.4745	1.6650	2.7600e- 003		0.0717	0.0717	;	0.0675	0.0675	0.0000	237.5999	237.5999	0.0565	0.0000	239.0129
Total	0.1612	1.4745	1.6650	2.7600e- 003		0.0717	0.0717		0.0675	0.0675	0.0000	237.5999	237.5999	0.0565	0.0000	239.0129

3.6 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0102	0.3618	0.0983	1.0500e- 003	0.0258	5.2000e- 004	0.0263	7.4400e- 003	5.0000e- 004	7.9400e- 003	0.0000	100.6158	100.6158	5.1500e- 003	0.0000	100.7446
Worker	0.0609	0.0368	0.4291	1.3000e- 003	0.1476	9.8000e- 004	0.1485	0.0392	9.0000e- 004	0.0402	0.0000	117.1861	117.1861	2.6700e- 003	0.0000	117.2529
Total	0.0710	0.3986	0.5274	2.3500e- 003	0.1733	1.5000e- 003	0.1748	0.0467	1.4000e- 003	0.0481	0.0000	217.8019	217.8019	7.8200e- 003	0.0000	217.9975

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1612	1.4745	1.6650	2.7600e- 003		0.0717	0.0717		0.0675	0.0675	0.0000	237.5996	237.5996	0.0565	0.0000	239.0126
Total	0.1612	1.4745	1.6650	2.7600e- 003		0.0717	0.0717		0.0675	0.0675	0.0000	237.5996	237.5996	0.0565	0.0000	239.0126

3.6 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0102	0.3618	0.0983	1.0500e- 003	0.0258	5.2000e- 004	0.0263	7.4400e- 003	5.0000e- 004	7.9400e- 003	0.0000	100.6158	100.6158	5.1500e- 003	0.0000	100.7446
Worker	0.0609	0.0368	0.4291	1.3000e- 003	0.1476	9.8000e- 004	0.1485	0.0392	9.0000e- 004	0.0402	0.0000	117.1861	117.1861	2.6700e- 003	0.0000	117.2529
Total	0.0710	0.3986	0.5274	2.3500e- 003	0.1733	1.5000e- 003	0.1748	0.0467	1.4000e- 003	0.0481	0.0000	217.8019	217.8019	7.8200e- 003	0.0000	217.9975

3.6 Building Construction - 2024

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							МТ	/yr		
Off-Road	0.1435	1.3108	1.5763	2.6300e- 003		0.0598	0.0598		0.0563	0.0563	0.0000	226.0529	226.0529	0.0535	0.0000	227.3893
Total	0.1435	1.3108	1.5763	2.6300e- 003		0.0598	0.0598		0.0563	0.0563	0.0000	226.0529	226.0529	0.0535	0.0000	227.3893

3.6 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.2200e- 003	0.3376	0.0874	9.9000e- 004	0.0245	4.7000e- 004	0.0250	7.0800e- 003	4.5000e- 004	7.5300e- 003	0.0000	95.1521	95.1521	4.8400e- 003	0.0000	95.2731
Worker	0.0544	0.0316	0.3780	1.1800e- 003	0.1404	9.1000e- 004	0.1413	0.0373	8.4000e- 004	0.0382	0.0000	107.1365	107.1365	2.2900e- 003	0.0000	107.1938
Total	0.0637	0.3692	0.4654	2.1700e- 003	0.1649	1.3800e- 003	0.1662	0.0444	1.2900e- 003	0.0457	0.0000	202.2886	202.2886	7.1300e- 003	0.0000	202.4669

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	'/yr		
Off-Road	0.1435	1.3108	1.5763	2.6300e- 003		0.0598	0.0598		0.0563	0.0563	0.0000	226.0526	226.0526	0.0535	0.0000	227.3890
Total	0.1435	1.3108	1.5763	2.6300e- 003		0.0598	0.0598	'	0.0563	0.0563	0.0000	226.0526	226.0526	0.0535	0.0000	227.3890

3.6 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.2200e- 003	0.3376	0.0874	9.9000e- 004	0.0245	4.7000e- 004	0.0250	7.0800e- 003	4.5000e- 004	7.5300e- 003	0.0000	95.1521	95.1521	4.8400e- 003	0.0000	95.2731
Worker	0.0544	0.0316	0.3780	1.1800e- 003	0.1404	9.1000e- 004	0.1413	0.0373	8.4000e- 004	0.0382	0.0000	107.1365	107.1365	2.2900e- 003	0.0000	107.1938
Total	0.0637	0.3692	0.4654	2.1700e- 003	0.1649	1.3800e- 003	0.1662	0.0444	1.2900e- 003	0.0457	0.0000	202.2886	202.2886	7.1300e- 003	0.0000	202.4669

3.7 Architectural Coating - 2023

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Archit. Coating	0.5892					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0187	0.1270	0.1766	2.9000e- 004		6.9000e- 003	6.9000e- 003		6.9000e- 003	6.9000e- 003	0.0000	24.8942	24.8942	1.4900e- 003	0.0000	24.9315
Total	0.6078	0.1270	0.1766	2.9000e- 004		6.9000e- 003	6.9000e- 003		6.9000e- 003	6.9000e- 003	0.0000	24.8942	24.8942	1.4900e- 003	0.0000	24.9315

3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0115	6.9600e- 003	0.0812	2.5000e- 004	0.0279	1.9000e- 004	0.0281	7.4300e- 003	1.7000e- 004	7.6000e- 003	0.0000	22.1802	22.1802	5.1000e- 004	0.0000	22.1928
Total	0.0115	6.9600e- 003	0.0812	2.5000e- 004	0.0279	1.9000e- 004	0.0281	7.4300e- 003	1.7000e- 004	7.6000e- 003	0.0000	22.1802	22.1802	5.1000e- 004	0.0000	22.1928

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Archit. Coating	0.5892	1 1 1	1			0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0187	0.1270	0.1766	2.9000e- 004		6.9000e- 003	6.9000e- 003		6.9000e- 003	6.9000e- 003	0.0000	24.8942	24.8942	1.4900e- 003	0.0000	24.9314
Total	0.6078	0.1270	0.1766	2.9000e- 004		6.9000e- 003	6.9000e- 003		6.9000e- 003	6.9000e- 003	0.0000	24.8942	24.8942	1.4900e- 003	0.0000	24.9314

3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0115	6.9600e- 003	0.0812	2.5000e- 004	0.0279	1.9000e- 004	0.0281	7.4300e- 003	1.7000e- 004	7.6000e- 003	0.0000	22.1802	22.1802	5.1000e- 004	0.0000	22.1928
Total	0.0115	6.9600e- 003	0.0812	2.5000e- 004	0.0279	1.9000e- 004	0.0281	7.4300e- 003	1.7000e- 004	7.6000e- 003	0.0000	22.1802	22.1802	5.1000e- 004	0.0000	22.1928

3.7 Architectural Coating - 2024

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Archit. Coating	0.6194					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0185	0.1249	0.1855	3.0000e- 004		6.2400e- 003	6.2400e- 003		6.2400e- 003	6.2400e- 003	0.0000	26.1709	26.1709	1.4700e- 003	0.0000	26.2077
Total	0.6379	0.1249	0.1855	3.0000e- 004		6.2400e- 003	6.2400e- 003		6.2400e- 003	6.2400e- 003	0.0000	26.1709	26.1709	1.4700e- 003	0.0000	26.2077

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0114	6.6100e- 003	0.0791	2.5000e- 004	0.0294	1.9000e- 004	0.0296	7.8100e- 003	1.8000e- 004	7.9800e- 003	0.0000	22.4112	22.4112	4.8000e- 004	0.0000	22.4232
Total	0.0114	6.6100e- 003	0.0791	2.5000e- 004	0.0294	1.9000e- 004	0.0296	7.8100e- 003	1.8000e- 004	7.9800e- 003	0.0000	22.4112	22.4112	4.8000e- 004	0.0000	22.4232

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Archit. Coating	0.6194	, , ,				0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0185	0.1249	0.1855	3.0000e- 004		6.2400e- 003	6.2400e- 003		6.2400e- 003	6.2400e- 003	0.0000	26.1708	26.1708	1.4700e- 003	0.0000	26.2077
Total	0.6379	0.1249	0.1855	3.0000e- 004		6.2400e- 003	6.2400e- 003		6.2400e- 003	6.2400e- 003	0.0000	26.1708	26.1708	1.4700e- 003	0.0000	26.2077

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0114	6.6100e- 003	0.0791	2.5000e- 004	0.0294	1.9000e- 004	0.0296	7.8100e- 003	1.8000e- 004	7.9800e- 003	0.0000	22.4112	22.4112	4.8000e- 004	0.0000	22.4232
Total	0.0114	6.6100e- 003	0.0791	2.5000e- 004	0.0294	1.9000e- 004	0.0296	7.8100e- 003	1.8000e- 004	7.9800e- 003	0.0000	22.4112	22.4112	4.8000e- 004	0.0000	22.4232

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Mitigated	0.2341	0.9611	2.6177	8.9000e- 003	0.8225	7.0200e- 003	0.8295	0.2204	6.5400e- 003	0.2270	0.0000	819.8429	819.8429	0.0365	0.0000	820.7549
Unmitigated	0.2434	1.0176	2.8581	9.9200e- 003	0.9231	7.7400e- 003	0.9308	0.2474	7.2200e- 003	0.2546	0.0000	913.1253	913.1253	0.0399	0.0000	914.1232

4.2 Trip Summary Information

	Aver	age Daily Trip Ra	ite	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	965.20	965.20	965.20	2,476,808	2,206,836
Parking Lot	0.00	0.00	0.00		
Total	965.20	965.20	965.20	2,476,808	2,206,836

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W H-S or C-C H-O or C-NW			H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	H-W of C-W H-S of C-C H-O of C-IW 10.00 5.00 6.50			46.50	12.50	41.00	86	11	3
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.566033	0.037143	0.208217	0.113428	0.016713	0.004955	0.018463	0.024036	0.001978	0.001883	0.005758	0.000618	0.000776
Parking Lot	0.566033	0.037143	0.208217	0.113428	0.016713	0.004955	0.018463	0.024036	0.001978	0.001883	0.005758	0.000618	0.000776

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category		tons/yr											MT	/yr		
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated	n		, , , , ,			0.0000	0.0000		0.0000	0.0000	0.0000	143.7692	143.7692	0.0113	2.3400e- 003	144.7473
NaturalGas Mitigated	9.4800e- 003	0.0810	0.0345	5.2000e- 004		6.5500e- 003	6.5500e- 003		6.5500e- 003	6.5500e- 003	0.0000	93.8257	93.8257	1.8000e- 003	1.7200e- 003	94.3832
NaturalGas Unmitigated	9.9900e- 003	0.0853	0.0363	5.4000e- 004		6.9000e- 003	6.9000e- 003		6.9000e- 003	6.9000e- 003	0.0000	98.8372	98.8372	1.8900e- 003	1.8100e- 003	99.4245

5.2 Energy by Land Use - NaturalGas

<u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	ıs/yr							MT	/yr		
Apartments Mid Rise	1.85214e +006	9.9900e- 003	0.0853	0.0363	5.4000e- 004		6.9000e- 003	6.9000e- 003		6.9000e- 003	6.9000e- 003	0.0000	98.8372	98.8372	1.8900e- 003	1.8100e- 003	99.4245
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		9.9900e- 003	0.0853	0.0363	5.4000e- 004		6.9000e- 003	6.9000e- 003		6.9000e- 003	6.9000e- 003	0.0000	98.8372	98.8372	1.8900e- 003	1.8100e- 003	99.4245

Mitigated

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							MT	/yr		
Apartments Mid Rise	1.75823e +006	9.4800e- 003	0.0810	0.0345	5.2000e- 004		6.5500e- 003	6.5500e- 003		6.5500e- 003	6.5500e- 003	0.0000	93.8257	93.8257	1.8000e- 003	1.7200e- 003	94.3832
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		9.4800e- 003	0.0810	0.0345	5.2000e- 004		6.5500e- 003	6.5500e- 003		6.5500e- 003	6.5500e- 003	0.0000	93.8257	93.8257	1.8000e- 003	1.7200e- 003	94.3832

5.3 Energy by Land Use - Electricity

<u>Unmitigated</u>

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		MT	ſ/yr	
Apartments Mid Rise	808727	135.4896	0.0106	2.2000e- 003	136.4115
Parking Lot	49420	8.2796	6.5000e- 004	1.3000e- 004	8.3359
Total		143.7692	0.0113	2.3300e- 003	144.7473

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		MT	/yr	
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

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No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	√yr		
Mitigated	0.9313	0.0226	1.9631	1.0000e- 004		0.0109	0.0109		0.0109	0.0109	0.0000	3.2094	3.2094	3.0900e- 003	0.0000	3.2868
Unmitigated	0.9313	0.0226	1.9631	1.0000e- 004		0.0109	0.0109	 - - - -	0.0109	0.0109	0.0000	3.2094	3.2094	3.0900e- 003	0.0000	3.2868

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr												МТ	ī/yr		
Architectural Coating	0.1209					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7512					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0593	0.0226	1.9631	1.0000e- 004		0.0109	0.0109		0.0109	0.0109	0.0000	3.2094	3.2094	3.0900e- 003	0.0000	3.2868
Total	0.9313	0.0226	1.9631	1.0000e- 004		0.0109	0.0109		0.0109	0.0109	0.0000	3.2094	3.2094	3.0900e- 003	0.0000	3.2868

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	ry tons/yr											МТ	/yr			
Architectural Coating	0.1209					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7512					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0593	0.0226	1.9631	1.0000e- 004		0.0109	0.0109		0.0109	0.0109	0.0000	3.2094	3.2094	3.0900e- 003	0.0000	3.2868
Total	0.9313	0.0226	1.9631	1.0000e- 004		0.0109	0.0109		0.0109	0.0109	0.0000	3.2094	3.2094	3.0900e- 003	0.0000	3.2868

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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	Total CO2	CH4	N2O	CO2e
Category		MT	ſ/yr	
Mitigated	15.4318	0.0130	7.8100e- 003	18.0851
Unmitigated	19.2897	0.0163	9.7700e- 003	22.6064

7.2 Water by Land Use

<u>Unmitigated</u>

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		M	/yr	
Apartments Mid Rise	12.3793 / 7.80432	19.2897	0.0163	9.7700e- 003	22.6064
Parking Lot	0/0	0.0000	0.0000	0.0000	0.0000
Total		19.2897	0.0163	9.7700e- 003	22.6064

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7.2 Water by Land Use

Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		M	/yr	
Apartments Mid Rise	9.90341 / 6.24346	15.4318	0.0130	7.8100e- 003	18.0851
Parking Lot	0/0	0.0000	0.0000	0.0000	0.0000
Total		15.4318	0.0130	7.8100e- 003	18.0851

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e						
	MT/yr									
Mitigated	17.7414	1.0485	0.0000	43.9536						
Unmitigated	17.7414	1.0485	0.0000	43.9536						

8.2 Waste by Land Use

<u>Unmitigated</u>

	Waste Disposed	Total CO2	CH4	N2O	CO2e					
Land Use	tons	MT/yr								
Apartments Mid Rise	87.4	17.7414	1.0485	0.0000	43.9536					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000					
Total		17.7414	1.0485	0.0000	43.9536					

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons		МТ	/yr	
Apartments Mid Rise	87.4	17.7414	1.0485	0.0000	43.9536
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		17.7414	1.0485	0.0000	43.9536

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

|--|

11.0 Vegetation

Natomas Park Drive Apartments

Sacramento Metropolitan AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	353.00	Space	4.06	141,200.00	0
Apartments Mid Rise	190.00	Dwelling Unit	5.00	190,000.00	507

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2024
Utility Company	Sacramento Municipal U	Itility District			
CO2 Intensity (Ib/MWhr)	369.35	CH4 Intensity (Ib/MWhr)	0.029	N2O Intensity (Ib/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor adjusted per SMUD's RPS projections.

Land Use - Lot acreage adjusted per site plan.

Construction Phase - Construction phase timing adjusted based on applicant-provided questionnaire.

Demolition -

Grading -

Vehicle Trips - Trip generation rate adjusted for consistency with City-provided information.

Mobile Land Use Mitigation - Project would improve pedestrian network connectivity on-site.

Area Mitigation - No hearths.

Energy Mitigation - Title 24 exceedance applied to reflect compliance with 2019 CBSC.

Water Mitigation - Water conservation strategy applied to reflect complaince with 2019 CalGreen Code and MWELO.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	400.00
tblConstructionPhase	NumDays	230.00	400.00
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	10.00	80.00
tblLandUse	LotAcreage	3.18	4.06
tblProjectCharacteristics	CO2IntensityFactor	590.31	369.35
tblVehicleTrips	ST_TR	6.39	5.08
tblVehicleTrips	SU_TR	5.86	5.08
tblVehicleTrips	WD_TR	6.65	5.08

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

5,619.834 8	0000.0	9961.1	5,601.912 3	5,601.912 3	0000.0	4124.11	4484.1	0296'6	7918.01	1.6135	18.2032	0290'0	7219.42	7911.EE	1927.8	mumixeM
۲ 2'548.649	0000.0	0807.0	2 2'230.950	2 2'230.950	0000.0	2102.1	0.6526	9842.0	2.7364	r069.0	2.0463	0.0563	54.3476	18.4332	7699 [.] 8	5024
5,619.834 5,619.834	0000.0	9166.0	5,601.912 3	5,601.912 3	0000.0	4111.4	97470	8795.E	1244.7	6982.0	1 999.9	0290.0	7319.42	2195.01	8.7261	5023
4,098.460 2	0000.0	9961.1	۲,071.781 4,071.781	۲,071.781 4,071.781	0000.0	4134.11	1.4844	0296.6	7918.01	1.6135	2602.81	6140.0	21.1526	7911.65	3752.5	5022
٨eb/di						λep/qj								Үеаг		
CO2e	N2O	CH4	Total CO2	NBio- CO2	Bio- CO2	2.5M9 Total	Fxhaust 7.5 7	Fugitive PM2.5	0rM9 IstoT	tsustat €xhaust	Fugitive PM10	SO2	CO	XON	୨୦୪	

Mitigated Construction

2'€19.83¢	0000.0	3301.1 3561.1	5,601.912 5	5,601.912 5	0000.0	4134.11	1.4844	0296'6	7918.01	3613.I	18.2032	0290.0	24.9157	23111.88	1927.8	mumixeM
5,548.649	0000.0	0807.0	2 2,530.950	2 2'230.950	0000.0	2102.1	0.6526	9843.0	2.7364	٥69.0	2.0463	0.0563	54.3476	18.4332	7 699 [.] 8	5024
5,619.834 8	0000.0	9166.0	5,601.912 5	5,601.912 3	0000.0	4111.4	9445.0	8795.E	7 <u>.44</u> 21	6982.0	7 999 [.] 9	0290.0	24.9157	2192.01	1927.8	5023
4,098.460 2	0000.0	9961.1	۲,071.781 ۲	۲,071.781 4,071.781	0000.0	4134.11	1.4844	0296.6	7918.91	1.6135	2602.81	6140.0	21.1526	7911.EE	3.2375	5022
λερ/qj							лер/ql									Year
CO2e	N2O	CH4	Total CO2	NBio- CO2	Bio- CO2	PM2.5 Total	Fxhaust PM2.5	Fugitive 7.5M9	0rM9 IstoT	tsustat Exhaust	Fugitive PM10	ZOS	00	XON	BOB	

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category		lb/day											lb/c	day		
Area	5.2527	0.1809	15.7046	8.3000e- 004		0.0870	0.0870		0.0870	0.0870	0.0000	28.3022	28.3022	0.0273	0.0000	28.9843
Energy	0.0547	0.4676	0.1990	2.9800e- 003		0.0378	0.0378		0.0378	0.0378		596.9828	596.9828	0.0114	0.0109	600.5303
Mobile	1.6981	5.3878	17.7360	0.0590	5.2506	0.0424	5.2930	1.4031	0.0395	1.4426		5,975.613 2	5,975.613 2	0.2478		5,981.808 6
Total	7.0055	6.0363	33.6396	0.0628	5.2506	0.1672	5.4178	1.4031	0.1643	1.5674	0.0000	6,600.898 2	6,600.898 2	0.2865	0.0109	6,611.323 2

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category		Ib/day											lb/d	day		
Area	5.2527	0.1809	15.7046	8.3000e- 004		0.0870	0.0870		0.0870	0.0870	0.0000	28.3022	28.3022	0.0273	0.0000	28.9843
Energy	0.0520	0.4439	0.1889	2.8300e- 003		0.0359	0.0359		0.0359	0.0359		566.7128	566.7128	0.0109	0.0104	570.0805
Mobile	1.6442	5.1010	16.1291	0.0529	4.6783	0.0384	4.7167	1.2502	0.0358	1.2860		5,363.541 2	5,363.541 2	0.2259		5,369.187 4
Total	6.9488	5.7258	32.0226	0.0566	4.6783	0.1613	4.8396	1.2502	0.1587	1.4088	0.0000	5,958.556 2	5,958.556 2	0.2640	0.0104	5,968.252 2

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.81	5.14	4.81	9.88	10.90	3.54	10.67	10.90	3.44	10.12	0.00	9.73	9.73	7.87	5.03	9.73

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/15/2022	8/5/2022	5	60	
2	Site Preparation	Site Preparation	8/6/2022	11/25/2022	5	80	
3	Grading	Grading	11/26/2022	1/20/2023	5	40	
4	Paving	Paving	1/21/2023	3/17/2023	5	40	
5	Building Construction	Building Construction	3/18/2023	9/27/2024	5	400	
6	Architectural Coating	Architectural Coating	4/1/2023	10/11/2024	5	400	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 20

Acres of Paving: 4.06

Residential Indoor: 384,750; Residential Outdoor: 128,250; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 8,472 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	155.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	196.00	43.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	39.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2022

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/d	day		
Fugitive Dust		1 1 1	1		0.5816	0.0000	0.5816	0.0881	0.0000	0.0881			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.781 2	3,746.781 2	1.0524		3,773.092 0
Total	2.6392	25.7194	20.5941	0.0388	0.5816	1.2427	1.8242	0.0881	1.1553	1.2433		3,746.781 2	3,746.781 2	1.0524		3,773.092 0

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Hauling	0.0170	0.6050	0.1453	2.0000e- 003	0.0449	1.9800e- 003	0.0469	0.0123	1.8900e- 003	0.0142		214.1513	214.1513	0.0120		214.4507
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0561	0.0277	0.4133	1.1100e- 003	0.1141	7.5000e- 004	0.1149	0.0303	6.9000e- 004	0.0310		110.8487	110.8487	2.7500e- 003		110.9174
Total	0.0732	0.6326	0.5586	3.1100e- 003	0.1590	2.7300e- 003	0.1618	0.0426	2.5800e- 003	0.0451		325.0000	325.0000	0.0147		325.3681

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	day		
Fugitive Dust		1 1 1 1			0.5816	0.0000	0.5816	0.0881	0.0000	0.0881			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.781 2	3,746.781 2	1.0524		3,773.092 0
Total	2.6392	25.7194	20.5941	0.0388	0.5816	1.2427	1.8242	0.0881	1.1553	1.2433	0.0000	3,746.781 2	3,746.781 2	1.0524		3,773.092 0
3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0170	0.6050	0.1453	2.0000e- 003	0.0449	1.9800e- 003	0.0469	0.0123	1.8900e- 003	0.0142		214.1513	214.1513	0.0120		214.4507
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0561	0.0277	0.4133	1.1100e- 003	0.1141	7.5000e- 004	0.1149	0.0303	6.9000e- 004	0.0310		110.8487	110.8487	2.7500e- 003		110.9174
Total	0.0732	0.6326	0.5586	3.1100e- 003	0.1590	2.7300e- 003	0.1618	0.0426	2.5800e- 003	0.0451		325.0000	325.0000	0.0147		325.3681

3.3 Site Preparation - 2022

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/c	lay		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.061 9	3,686.061 9	1.1922		3,715.865 5
Total	3.1701	33.0835	19.6978	0.0380	18.0663	1.6126	19.6788	9.9307	1.4836	11.4143		3,686.061 9	3,686.061 9	1.1922		3,715.865 5

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0673	0.0332	0.4959	1.3400e- 003	0.1369	9.0000e- 004	0.1378	0.0363	8.3000e- 004	0.0372		133.0184	133.0184	3.3000e- 003		133.1009
Total	0.0673	0.0332	0.4959	1.3400e- 003	0.1369	9.0000e- 004	0.1378	0.0363	8.3000e- 004	0.0372		133.0184	133.0184	3.3000e- 003		133.1009

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/c	lay		
Fugitive Dust		1 1 1			18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		1 1 1	0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.061 9	3,686.061 9	1.1922		3,715.865 5
Total	3.1701	33.0835	19.6978	0.0380	18.0663	1.6126	19.6788	9.9 <mark>307</mark>	1.4836	11.4143	0.0000	3,686.061 9	3,686.061 9	1.1922		3,715.865 5

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0673	0.0332	0.4959	1.3400e- 003	0.1369	9.0000e- 004	0.1378	0.0363	8.3000e- 004	0.0372		133.0184	133.0184	3.3000e- 003		133.1009
Total	0.0673	0.0332	0.4959	1.3400e- 003	0.1369	9.0000e- 004	0.1378	0.0363	8.3000e- 004	0.0372		133.0184	133.0184	3.3000e- 003		133.1009

3.4 Grading - 2022

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	lay		
Fugitive Dust			, , ,		6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.046 4	2,872.046 4	0.9289		2,895.268 4
Total	1.9486	20.8551	15.2727	0.0297	6.5523	0.9409	7.4932	3.3675	0.8656	4.2331		2,872.046 4	2,872.046 4	0.9289		2,895.268 4

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0561	0.0277	0.4133	1.1100e- 003	0.1141	7.5000e- 004	0.1149	0.0303	6.9000e- 004	0.0310		110.8487	110.8487	2.7500e- 003		110.9174
Total	0.0561	0.0277	0.4133	1.1100e- 003	0.1141	7.5000e- 004	0.1149	0.0303	6.9000e- 004	0.0310		110.8487	110.8487	2.7500e- 003		110.9174

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675		1 1 1	0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4
Total	1.9486	20.8551	15.2727	0.0297	6.5523	0.9409	7.4932	3.3675	0.8656	4.2331	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0561	0.0277	0.4133	1.1100e- 003	0.1141	7.5000e- 004	0.1149	0.0303	6.9000e- 004	0.0310		110.8487	110.8487	2.7500e- 003		110.9174
Total	0.0561	0.0277	0.4133	1.1100e- 003	0.1141	7.5000e- 004	0.1149	0.0303	6.9000e- 004	0.0310		110.8487	110.8487	2.7500e- 003		110.9174

3.4 Grading - 2023

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675		1 1 1	0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129		2,872.691 0	2,872.691 0	0.9291		2,895.918 2
Total	1.7109	17.9359	14.7507	0.0297	6.5523	0.7749	7.3273	3.3675	0.7129	4.0804		2,872.691 0	2,872.691 0	0.9291		2,895.918 2

3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0525	0.0249	0.3804	1.0700e- 003	0.1141	7.3000e- 004	0.1148	0.0303	6.7000e- 004	0.0309		106.6812	106.6812	2.4700e- 003		106.7429
Total	0.0525	0.0249	0.3804	1.0700e- 003	0.1141	7.3000e- 004	0.1148	0.0303	6.7000e- 004	0.0309		106.6812	106.6812	2.4700e- 003		106.7429

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	lay		
Fugitive Dust		1	1 1 1		6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129	0.0000	2,872.691 0	2,872.691 0	0.9291		2,895.918 2
Total	1.7109	17.9359	14.7507	0.0297	6.5523	0.7749	7.3273	3.3675	0.7129	4.0804	0.0000	2,872.691 0	2,872.691 0	0.9291		2,895.918 2

3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	Jay							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0525	0.0249	0.3804	1.0700e- 003	0.1141	7.3000e- 004	0.1148	0.0303	6.7000e- 004	0.0309		106.6812	106.6812	2.4700e- 003		106.7429
Total	0.0525	0.0249	0.3804	1.0700e- 003	0.1141	7.3000e- 004	0.1148	0.0303	6.7000e- 004	0.0309		106.6812	106.6812	2.4700e- 003		106.7429

3.5 Paving - 2023

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	lay		
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.2659	1 1 1 1				0.0000	0.0000		0.0000	0.0000		 	0.0000			0.0000
Total	1.2987	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.584 1	2,207.584 1	0.7140		2,225.433 6

3.5 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0525	0.0249	0.3804	1.0700e- 003	0.1141	7.3000e- 004	0.1148	0.0303	6.7000e- 004	0.0309		106.6812	106.6812	2.4700e- 003		106.7429
Total	0.0525	0.0249	0.3804	1.0700e- 003	0.1141	7.3000e- 004	0.1148	0.0303	6.7000e- 004	0.0309		106.6812	106.6812	2.4700e- 003		106.7429

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	lay		
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.2659					0.0000	0.0000		0.0000	0.0000		 	0.0000			0.0000
Total	1.2987	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6

3.5 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0525	0.0249	0.3804	1.0700e- 003	0.1141	7.3000e- 004	0.1148	0.0303	6.7000e- 004	0.0309		106.6812	106.6812	2.4700e- 003		106.7429
Total	0.0525	0.0249	0.3804	1.0700e- 003	0.1141	7.3000e- 004	0.1148	0.0303	6.7000e- 004	0.0309		106.6812	106.6812	2.4700e- 003		106.7429

3.6 Building Construction - 2023

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	lay		
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997	1 1	0.6584	0.6584		2,555.209 9	2,555.209 9	0.6079		2,570.406 1
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209 9	2,555.209 9	0.6079		2,570.406 1

3.6 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0974	3.4830	0.9014	0.0103	0.2587	4.8900e- 003	0.2636	0.0744	4.6800e- 003	0.0791		1,093.915 0	1,093.915 0	0.0536		1,095.255 0
Worker	0.6854	0.3256	4.9702	0.0140	1.4910	9.5600e- 003	1.5005	0.3955	8.8100e- 003	0.4043		1,393.968 1	1,393.968 1	0.0322		1,394.773 4
Total	0.7828	3.8085	5.8716	0.0243	1.7497	0.0145	1.7641	0.4699	0.0135	0.4834		2,487.883 1	2,487.883 1	0.0858		2,490.028 3

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	day							lb/c	lay		
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1

3.6 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0974	3.4830	0.9014	0.0103	0.2587	4.8900e- 003	0.2636	0.0744	4.6800e- 003	0.0791		1,093.915 0	1,093.915 0	0.0536		1,095.255 0
Worker	0.6854	0.3256	4.9702	0.0140	1.4910	9.5600e- 003	1.5005	0.3955	8.8100e- 003	0.4043		1,393.968 1	1,393.968 1	0.0322		1,394.773 4
Total	0.7828	3.8085	5.8716	0.0243	1.7497	0.0145	1.7641	0.4699	0.0135	0.4834		2,487.883 1	2,487.883 1	0.0858		2,490.028 3

3.6 Building Construction - 2024

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/c	lay		
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.698 9	2,555.698 9	0.6044		2,570.807 7
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.698 9	2,555.698 9	0.6044		2,570.807 7

3.6 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0928	3.4177	0.8425	0.0102	0.2587	4.6600e- 003	0.2633	0.0744	4.4500e- 003	0.0789		1,087.519 4	1,087.519 4	0.0529		1,088.843 0
Worker	0.6436	0.2943	4.6107	0.0135	1.4910	9.3500e- 003	1.5003	0.3955	8.6100e- 003	0.4041		1,339.709 0	1,339.709 0	0.0291		1,340.435 5
Total	0.7364	3.7120	5.4532	0.0237	1.7496	0.0140	1.7636	0.4699	0.0131	0.4830		2,427.228 5	2,427.228 5	0.0820		2,429.278 5

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	day							lb/c	lay		
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.698 9	2,555.698 9	0.6044		2,570.807 7
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.698 9	2,555.698 9	0.6044		2,570.807 7

3.6 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0928	3.4177	0.8425	0.0102	0.2587	4.6600e- 003	0.2633	0.0744	4.4500e- 003	0.0789		1,087.519 4	1,087.519 4	0.0529		1,088.843 0
Worker	0.6436	0.2943	4.6107	0.0135	1.4910	9.3500e- 003	1.5003	0.3955	8.6100e- 003	0.4041		1,339.709 0	1,339.709 0	0.0291		1,340.435 5
Total	0.7364	3.7120	5.4532	0.0237	1.7496	0.0140	1.7636	0.4699	0.0131	0.4830		2,427.228 5	2,427.228 5	0.0820		2,429.278 5

3.7 Architectural Coating - 2023

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/c	lay		
Archit. Coating	6.0426	, , ,				0.0000	0.0000		0.0000	0.0000		1 1 1	0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e- 003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	6.2342	1.3030	1.8111	2.9700e- 003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1364	0.0648	0.9890	2.7800e- 003	0.2967	1.9000e- 003	0.2986	0.0787	1.7500e- 003	0.0805		277.3712	277.3712	6.4100e- 003		277.5314
Total	0.1364	0.0648	0.9890	2.7800e- 003	0.2967	1.9000e- 003	0.2986	0.0787	1.7500e- 003	0.0805		277.3712	277.3712	6.4100e- 003		277.5314

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	lay		
Archit. Coating	6.0426	, , ,				0.0000	0.0000		0.0000	0.0000		1 1 1	0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e- 003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	6.2342	1.3030	1.8111	2.9700e- 003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1364	0.0648	0.9890	2.7800e- 003	0.2967	1.9000e- 003	0.2986	0.0787	1.7500e- 003	0.0805		277.3712	277.3712	6.4100e- 003		277.5314
Total	0.1364	0.0648	0.9890	2.7800e- 003	0.2967	1.9000e- 003	0.2986	0.0787	1.7500e- 003	0.0805		277.3712	277.3712	6.4100e- 003		277.5314

3.7 Architectural Coating - 2024

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/c	lay		
Archit. Coating	6.0426					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e- 003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	6.2233	1.2188	1.8101	2.9700e- 003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1281	0.0586	0.9174	2.6800e- 003	0.2967	1.8600e- 003	0.2985	0.0787	1.7100e- 003	0.0804		266.5748	266.5748	5.7800e- 003		266.7193
Total	0.1281	0.0586	0.9174	2.6800e- 003	0.2967	1.8600e- 003	0.2985	0.0787	1.7100e- 003	0.0804		266.5748	266.5748	5.7800e- 003		266.7193

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	lay		
Archit. Coating	6.0426	, , ,				0.0000	0.0000		0.0000	0.0000		1 1 1	0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e- 003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	6.2233	1.2188	1.8101	2.9700e- 003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1281	0.0586	0.9174	2.6800e- 003	0.2967	1.8600e- 003	0.2985	0.0787	1.7100e- 003	0.0804		266.5748	266.5748	5.7800e- 003		266.7193
Total	0.1281	0.0586	0.9174	2.6800e- 003	0.2967	1.8600e- 003	0.2985	0.0787	1.7100e- 003	0.0804		266.5748	266.5748	5.7800e- 003		266.7193

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	day		
Mitigated	1.6442	5.1010	16.1291	0.0529	4.6783	0.0384	4.7167	1.2502	0.0358	1.2860		5,363.541 2	5,363.541 2	0.2259		5,369.187 4
Unmitigated	1.6981	5.3878	17.7360	0.0590	5.2506	0.0424	5.2930	1.4031	0.0395	1.4426		5,975.613 2	5,975.613 2	0.2478		5,981.808 6

4.2 Trip Summary Information

	Aver	age Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	965.20	965.20	965.20	2,476,808	2,206,836
Parking Lot	0.00	0.00	0.00		
Total	965.20	965.20	965.20	2,476,808	2,206,836

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	se %
Land Use	H-W or C-W H-S or C-C H-O or C-N			H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	H-W or C-W H-S or C-C H-O or C-N 10.00 5.00 6.50			46.50	12.50	41.00	86	11	3
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.566033	0.037143	0.208217	0.113428	0.016713	0.004955	0.018463	0.024036	0.001978	0.001883	0.005758	0.000618	0.000776
Parking Lot	0.566033	0.037143	0.208217	0.113428	0.016713	0.004955	0.018463	0.024036	0.001978	0.001883	0.005758	0.000618	0.000776

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/d	day			
NaturalGas Mitigated	0.0520	0.4439	0.1889	2.8300e- 003		0.0359	0.0359		0.0359	0.0359		566.7128	566.7128	0.0109	0.0104	570.0805
NaturalGas Unmitigated	0.0547	0.4676	0.1990	2.9800e- 003		0.0378	0.0378		0.0378	0.0378		596.9828	596.9828	0.0114	0.0109	600.5303

5.2 Energy by Land Use - NaturalGas

<u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/	day							lb/c	lay		
Apartments Mid Rise	5074.35	0.0547	0.4676	0.1990	2.9800e- 003		0.0378	0.0378		0.0378	0.0378		596.9828	596.9828	0.0114	0.0109	600.5303
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0547	0.4676	0.1990	2.9800e- 003		0.0378	0.0378		0.0378	0.0378		596.9828	596.9828	0.0114	0.0109	600.5303

Mitigated

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/e	day							lb/c	lay		
Apartments Mid Rise	4.81706	0.0520	0.4439	0.1889	2.8300e- 003		0.0359	0.0359		0.0359	0.0359		566.7128	566.7128	0.0109	0.0104	570.0805
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0520	0.4439	0.1889	2.8300e- 003		0.0359	0.0359		0.0359	0.0359		566.7128	566.7128	0.0109	0.0104	570.0805

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/d	day			
Mitigated	5.2527	0.1809	15.7046	8.3000e- 004		0.0870	0.0870		0.0870	0.0870	0.0000	28.3022	28.3022	0.0273	0.0000	28.9843
Unmitigated	5.2527	0.1809	15.7046	8.3000e- 004	 - - -	0.0870	0.0870	 - - - -	0.0870	0.0870	0.0000	28.3022	28.3022	0.0273	0.0000	28.9843

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/e	day							lb/d	lay		
Architectural Coating	0.6622					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.1160					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4744	0.1809	15.7046	8.3000e- 004		0.0870	0.0870		0.0870	0.0870		28.3022	28.3022	0.0273		28.9843
Total	5.2527	0.1809	15.7046	8.3000e- 004		0.0870	0.0870		0.0870	0.0870	0.0000	28.3022	28.3022	0.0273	0.0000	28.9843

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day											lb/d	day			
Architectural Coating	0.6622					0.0000	0.0000		0.0000	0.0000			0.0000		1 1 1	0.0000
Consumer Products	4.1160					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4744	0.1809	15.7046	8.3000e- 004		0.0870	0.0870		0.0870	0.0870		28.3022	28.3022	0.0273		28.9843
Total	5.2527	0.1809	15.7046	8.3000e- 004		0.0870	0.0870		0.0870	0.0870	0.0000	28.3022	28.3022	0.0273	0.0000	28.9843

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Boilers						
Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type	
User Defined Equipment						
Equipment Type	Number					
11.0 Vegetation						

Natomas Park Drive Apartments

Sacramento Metropolitan AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	353.00	Space	4.06	141,200.00	0
Apartments Mid Rise	190.00	Dwelling Unit	5.00	190,000.00	507

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2024
Utility Company	Sacramento Municipal Uti	lity District			
CO2 Intensity (Ib/MWhr)	369.35	CH4 Intensity (Ib/MWhr)	0.029	N2O Intensity ((Ib/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor adjusted per SMUD's RPS projections.

Land Use - Lot acreage adjusted per site plan.

Construction Phase - Construction phase timing adjusted based on applicant-provided questionnaire.

Demolition -

Grading -

Vehicle Trips - Trip generation rate adjusted for consistency with City-provided information.

Mobile Land Use Mitigation - Project would improve pedestrian network connectivity on-site.

Area Mitigation - No hearths.

Energy Mitigation - Title 24 exceedance applied to reflect compliance with 2019 CBSC.

Water Mitigation - Water conservation strategy applied to reflect complaince with 2019 CalGreen Code and MWELO.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	400.00
tblConstructionPhase	NumDays	230.00	400.00
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	10.00	80.00
tblLandUse	LotAcreage	3.18	4.06
tblProjectCharacteristics	CO2IntensityFactor	590.31	369.35
tblVehicleTrips	ST_TR	6.39	5.08
tblVehicleTrips	SU_TR	5.86	5.08
tblVehicleTrips	WD_TR	6.65	5.08

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

3 2'388.282	0000.0	1301.1	5,370.372 5	5,370.372 5	0000.0	4124.11	4484.1	0296'6	7918.61	1.6135	18.2032	7420.0	7261.42	33.1242	9079.8	mumixeM
785.325,3 8	0000.0	8707.0	5,307.692 5,307.692	5,307.692 5,307.692	0000.0	9102.1	0:6530	9842.0	8967.2	9069.0	2.0463	0.0541	23.6065	18.5485	2603.8	5024
5,388.282 5,388.282	0000.0	£1£6.0	5,370.372 6	5,370.372 6	0000.0	4111.4	6447.0	8795.E	7.4421	£787.0	1 999.8	2420.0	7261.42	4789.91	9029 [.] 8	5023
4,081.628 3	0000.0	1301.1	۱ 4'024.944	ا 4'024:944	0000.0	4134.11	1.4844	0296.6	7918.01	1.6135	2602.81	8140.0	2001.12	33.1242	3 [.] 2323	5022
		tet,	D/q							yei	D/91					Үеаг
CO2e	N2O	CH⊄	Total CO2	NBio- CO2	Bio- CO2	P.C.F Total	Fxhaust 7.5Mg	Fugitive PM2.5	0rM9 IstoT	tsustat DIM9	Fugitive PM10	SO2	CO	XON	вов	

Mitigated Construction

3 2'388'585	0000.0	1301.1	9 2,370.372	9 2'320.372	0000.0	4134.11	1.4844	0296'6	7918.01	3613.I	18.2032	2420.0	24.1327	33.1242	9029.8	mumixsM
5,325.387 8	0000.0	8707.0	5,307.692 5,307.692	0 2'302'692	0000.0	9102.1	0.6530	9842.0	8967.2	9069 [.] 0	2.0463	0.0541	23.6065	18.5485	2603.8	2024
5,388.282 3	0000.0	6166.0	5,370.372 6	5,370.372 6	0000.0	4111.4	6447.0	8795.E	1244.7	£787.0	1 999.9	2420.0	7261.42	4789.91	9029 [.] 8	5023
4,081.628 3	0000.0	1301.1	۱ 4'004.944	ا 4'004۔944	0000.0	4134.11	1.4844	0296.6	7918.01	1.6135	18.2032	8140.0	2001.12	33.1246	3.2323	5022
		yet	⊃/qI							Vet	p/qi					Year
CO2e	N2O	CH4	Total CO2	NBio- CO2	Bio- CO2	PM2.5 Total	Fxhaust 7.5Mg	Fugitive PM2.5	PM10 IstoT	PM10 Exhaust	Fugitive PM10	SO2	CO	XON	BOB	

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Area	5.2527	0.1809	15.7046	8.3000e- 004		0.0870	0.0870		0.0870	0.0870	0.0000	28.3022	28.3022	0.0273	0.0000	28.9843
Energy	0.0547	0.4676	0.1990	2.9800e- 003		0.0378	0.0378		0.0378	0.0378		596.9828	596.9828	0.0114	0.0109	600.5303
Mobile	1.2577	5.7411	16.2102	0.0533	5.2506	0.0428	5.2934	1.4031	0.0399	1.4430		5,405.429 7	5,405.429 7	0.2460		5,411.580 6
Total	6.5651	6.3896	32.1138	0.0571	5.2506	0.1676	5.4182	1.4031	0.1647	1.5678	0.0000	6,030.714 7	6,030.714 7	0.2848	0.0109	6,041.095 2

Mitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	day		
Area	5.2527	0.1809	15.7046	8.3000e- 004		0.0870	0.0870		0.0870	0.0870	0.0000	28.3022	28.3022	0.0273	0.0000	28.9843
Energy	0.0520	0.4439	0.1889	2.8300e- 003		0.0359	0.0359		0.0359	0.0359		566.7128	566.7128	0.0109	0.0104	570.0805
Mobile	1.2060	5.4136	14.9249	0.0478	4.6783	0.0388	4.7171	1.2502	0.0362	1.2864		4,852.219 8	4,852.219 8	0.2254		4,857.855 6
Total	6.5106	6.0384	30.8184	0.0515	4.6783	0.1617	4.8400	1.2502	0.1591	1.4092	0.0000	5,447.234 8	5,447.234 8	0.2636	0.0104	5,456.920 3

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.83	5.50	4.03	9.81	10.90	3.53	10.67	10.90	3.43	10.12	0.00	9.68	9.68	7.44	5.03	9.67

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/15/2022	8/5/2022	5	60	
2	Site Preparation	Site Preparation	8/6/2022	11/25/2022	5	80	
3	Grading	Grading	11/26/2022	1/20/2023	5	40	
4	Paving	Paving	1/21/2023	3/17/2023	5	40	
5	Building Construction	Building Construction	3/18/2023	9/27/2024	5	400	
6	Architectural Coating	Architectural Coating	4/1/2023	10/11/2024	5	400	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 20

Acres of Paving: 4.06

Residential Indoor: 384,750; Residential Outdoor: 128,250; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 8,472 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	155.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	196.00	43.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	39.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2022

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/d	day		
Fugitive Dust		1 1 1	, , ,		0.5816	0.0000	0.5816	0.0881	0.0000	0.0881			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.781 2	3,746.781 2	1.0524		3,773.092 0
Total	2.6392	25.7194	20.5941	0.0388	0.5816	1.2427	1.8242	0.0881	1.1553	1.2433		3,746.781 2	3,746.781 2	1.0524		3,773.092 0

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Hauling	0.0176	0.6269	0.1552	1.9600e- 003	0.0449	2.0500e- 003	0.0470	0.0123	1.9600e- 003	0.0143		210.8037	210.8037	0.0125		211.1167
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0518	0.0342	0.3510	9.8000e- 004	0.1141	7.5000e- 004	0.1149	0.0303	6.9000e- 004	0.0310		97.3592	97.3592	2.4100e- 003		97.4196
Total	0.0693	0.6611	0.5061	2.9400e- 003	0.1590	2.8000e- 003	0.1618	0.0426	2.6500e- 003	0.0452		308.1629	308.1629	0.0149		308.5363

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	day		
Fugitive Dust			1		0.5816	0.0000	0.5816	0.0881	0.0000	0.0881			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.781 2	3,746.781 2	1.0524		3,773.092 0
Total	2.6392	25.7194	20.5941	0.0388	0.5816	1.2427	1.8242	0.0881	1.1553	1.2433	0.0000	3,746.781 2	3,746.781 2	1.0524		3,773.092 0

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/c	day		
Hauling	0.0176	0.6269	0.1552	1.9600e- 003	0.0449	2.0500e- 003	0.0470	0.0123	1.9600e- 003	0.0143		210.8037	210.8037	0.0125		211.1167
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0518	0.0342	0.3510	9.8000e- 004	0.1141	7.5000e- 004	0.1149	0.0303	6.9000e- 004	0.0310		97.3592	97.3592	2.4100e- 003		97.4196
Total	0.0693	0.6611	0.5061	2.9400e- 003	0.1590	2.8000e- 003	0.1618	0.0426	2.6500e- 003	0.0452		308.1629	308.1629	0.0149		308.5363

3.3 Site Preparation - 2022

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.061 9	3,686.061 9	1.1922		3,715.865 5
Total	3.1701	33.0835	19.6978	0.0380	18.0663	1.6126	19.6788	9.9307	1.4836	11.4143		3,686.061 9	3,686.061 9	1.1922		3,715.865 5

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0621	0.0410	0.4212	1.1700e- 003	0.1369	9.0000e- 004	0.1378	0.0363	8.3000e- 004	0.0372		116.8311	116.8311	2.9000e- 003		116.9035
Total	0.0621	0.0410	0.4212	1.1700e- 003	0.1369	9.0000e- 004	0.1378	0.0363	8.3000e- 004	0.0372		116.8311	116.8311	2.9000e- 003		116.9035

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/c	lay		
Fugitive Dust		1 1 1 1			18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		1 1 1	0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.061 9	3,686.061 9	1.1922		3,715.865 5
Total	3.1701	33.0835	19.6978	0.0380	18.0663	1.6126	19.6788	9.9 <mark>307</mark>	1.4836	11.4143	0.0000	3,686.061 9	3,686.061 9	1.1922		3,715.865 5

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	Jay							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0621	0.0410	0.4212	1.1700e- 003	0.1369	9.0000e- 004	0.1378	0.0363	8.3000e- 004	0.0372		116.8311	116.8311	2.9000e- 003		116.9035
Total	0.0621	0.0410	0.4212	1.1700e- 003	0.1369	9.0000e- 004	0.1378	0.0363	8.3000e- 004	0.0372		116.8311	116.8311	2.9000e- 003		116.9035

3.4 Grading - 2022

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/c	lay		
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.046 4	2,872.046 4	0.9289		2,895.268 4
Total	1.9486	20.8551	15.2727	0.0297	6.5523	0.9409	7.4932	3.3675	0.8656	4.2331		2,872.046 4	2,872.046 4	0.9289		2,895.268 4

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0518	0.0342	0.3510	9.8000e- 004	0.1141	7.5000e- 004	0.1149	0.0303	6.9000e- 004	0.0310		97.3592	97.3592	2.4100e- 003		97.4196
Total	0.0518	0.0342	0.3510	9.8000e- 004	0.1141	7.5000e- 004	0.1149	0.0303	6.9000e- 004	0.0310		97.3592	97.3592	2.4100e- 003		97.4196

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	lay		
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4
Total	1.9486	20.8551	15.2727	0.0297	6.5523	0.9409	7.4932	3.3675	0.8656	4.2331	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4
3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0518	0.0342	0.3510	9.8000e- 004	0.1141	7.5000e- 004	0.1149	0.0303	6.9000e- 004	0.0310		97.3592	97.3592	2.4100e- 003		97.4196
Total	0.0518	0.0342	0.3510	9.8000e- 004	0.1141	7.5000e- 004	0.1149	0.0303	6.9000e- 004	0.0310		97.3592	97.3592	2.4100e- 003		97.4196

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675		1 1 1	0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129		2,872.691 0	2,872.691 0	0.9291		2,895.918 2
Total	1.7109	17.9359	14.7507	0.0297	6.5523	0.7749	7.3273	3.3675	0.7129	4.0804		2,872.691 0	2,872.691 0	0.9291		2,895.918 2

3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0485	0.0307	0.3216	9.4000e- 004	0.1141	7.3000e- 004	0.1148	0.0303	6.7000e- 004	0.0309		93.7046	93.7046	2.1600e- 003		93.7585
Total	0.0485	0.0307	0.3216	9.4000e- 004	0.1141	7.3000e- 004	0.1148	0.0303	6.7000e- 004	0.0309		93.7046	93.7046	2.1600e- 003		93.7585

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	lay		
Fugitive Dust		1	1 1 1		6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129	0.0000	2,872.691 0	2,872.691 0	0.9291		2,895.918 2
Total	1.7109	17.9359	14.7507	0.0297	6.5523	0.7749	7.3273	3.3675	0.7129	4.0804	0.0000	2,872.691 0	2,872.691 0	0.9291		2,895.918 2

3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	Jay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0485	0.0307	0.3216	9.4000e- 004	0.1141	7.3000e- 004	0.1148	0.0303	6.7000e- 004	0.0309		93.7046	93.7046	2.1600e- 003		93.7585
Total	0.0485	0.0307	0.3216	9.4000e- 004	0.1141	7.3000e- 004	0.1148	0.0303	6.7000e- 004	0.0309		93.7046	93.7046	2.1600e- 003		93.7585

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	lay		
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.2659					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2987	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.584 1	2,207.584 1	0.7140		2,225.433 6

3.5 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0485	0.0307	0.3216	9.4000e- 004	0.1141	7.3000e- 004	0.1148	0.0303	6.7000e- 004	0.0309		93.7046	93.7046	2.1600e- 003		93.7585
Total	0.0485	0.0307	0.3216	9.4000e- 004	0.1141	7.3000e- 004	0.1148	0.0303	6.7000e- 004	0.0309		93.7046	93.7046	2.1600e- 003		93.7585

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/c	day		
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.2659					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2987	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6

3.5 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0485	0.0307	0.3216	9.4000e- 004	0.1141	7.3000e- 004	0.1148	0.0303	6.7000e- 004	0.0309		93.7046	93.7046	2.1600e- 003		93.7585
Total	0.0485	0.0307	0.3216	9.4000e- 004	0.1141	7.3000e- 004	0.1148	0.0303	6.7000e- 004	0.0309		93.7046	93.7046	2.1600e- 003		93.7585

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	lay		
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997	1 1	0.6584	0.6584		2,555.209 9	2,555.209 9	0.6079		2,570.406 1
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209 9	2,555.209 9	0.6079		2,570.406 1

3.6 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1036	3.5180	1.0396	0.0101	0.2587	5.3200e- 003	0.2640	0.0744	5.0900e- 003	0.0795		1,065.676 5	1,065.676 5	0.0579		1,067.123 8
Worker	0.6339	0.4016	4.2020	0.0123	1.4910	9.5600e- 003	1.5005	0.3955	8.8100e- 003	0.4043		1,224.406 3	1,224.406 3	0.0282		1,225.111 3
Total	0.7375	3.9196	5.2415	0.0223	1.7497	0.0149	1.7645	0.4699	0.0139	0.4838		2,290.082 8	2,290.082 8	0.0861		2,292.235 1

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	Jay							lb/c	łay		
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1

3.6 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1036	3.5180	1.0396	0.0101	0.2587	5.3200e- 003	0.2640	0.0744	5.0900e- 003	0.0795		1,065.676 5	1,065.676 5	0.0579		1,067.123 8
Worker	0.6339	0.4016	4.2020	0.0123	1.4910	9.5600e- 003	1.5005	0.3955	8.8100e- 003	0.4043		1,224.406 3	1,224.406 3	0.0282		1,225.111 3
Total	0.7375	3.9196	5.2415	0.0223	1.7497	0.0149	1.7645	0.4699	0.0139	0.4838		2,290.082 8	2,290.082 8	0.0861		2,292.235 1

3.6 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/c	lay		
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.698 9	2,555.698 9	0.6044		2,570.807 7
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.698 9	2,555.698 9	0.6044		2,570.807 7

3.6 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0986	3.4508	0.9715	9.9800e- 003	0.2587	5.0400e- 003	0.2637	0.0744	4.8200e- 003	0.0792		1,059.551 4	1,059.551 4	0.0572		1,060.981 2
Worker	0.5969	0.3630	3.8850	0.0118	1.4910	9.3500e- 003	1.5003	0.3955	8.6100e- 003	0.4041		1,176.828 8	1,176.828 8	0.0254		1,177.463 5
Total	0.6955	3.8137	4.8565	0.0218	1.7496	0.0144	1.7640	0.4699	0.0134	0.4834		2,236.380 2	2,236.380 2	0.0826		2,238.444 7

Mitigated Construction On-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/c	lay		
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.698 9	2,555.698 9	0.6044		2,570.807 7
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.698 9	2,555.698 9	0.6044		2,570.807 7

3.6 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0986	3.4508	0.9715	9.9800e- 003	0.2587	5.0400e- 003	0.2637	0.0744	4.8200e- 003	0.0792		1,059.551 4	1,059.551 4	0.0572		1,060.981 2
Worker	0.5969	0.3630	3.8850	0.0118	1.4910	9.3500e- 003	1.5003	0.3955	8.6100e- 003	0.4041		1,176.828 8	1,176.828 8	0.0254		1,177.463 5
Total	0.6955	3.8137	4.8565	0.0218	1.7496	0.0144	1.7640	0.4699	0.0134	0.4834		2,236.380 2	2,236.380 2	0.0826		2,238.444 7

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Archit. Coating	6.0426					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e- 003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	6.2342	1.3030	1.8111	2.9700e- 003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1261	0.0799	0.8361	2.4500e- 003	0.2967	1.9000e- 003	0.2986	0.0787	1.7500e- 003	0.0805		243.6319	243.6319	5.6100e- 003		243.7722
Total	0.1261	0.0799	0.8361	2.4500e- 003	0.2967	1.9000e- 003	0.2986	0.0787	1.7500e- 003	0.0805		243.6319	243.6319	5.6100e- 003		243.7722

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	lay		
Archit. Coating	6.0426					0.0000	0.0000		0.0000	0.0000		1 1 1	0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e- 003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	6.2342	1.3030	1.8111	2.9700e- 003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1261	0.0799	0.8361	2.4500e- 003	0.2967	1.9000e- 003	0.2986	0.0787	1.7500e- 003	0.0805		243.6319	243.6319	5.6100e- 003		243.7722
Total	0.1261	0.0799	0.8361	2.4500e- 003	0.2967	1.9000e- 003	0.2986	0.0787	1.7500e- 003	0.0805		243.6319	243.6319	5.6100e- 003		243.7722

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/c	lay		
Archit. Coating	6.0426					0.0000	0.0000		0.0000	0.0000		1 1 1	0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e- 003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	6.2233	1.2188	1.8101	2.9700e- 003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1188	0.0722	0.7730	2.3500e- 003	0.2967	1.8600e- 003	0.2985	0.0787	1.7100e- 003	0.0804		234.1649	234.1649	5.0500e- 003		234.2912
Total	0.1188	0.0722	0.7730	2.3500e- 003	0.2967	1.8600e- 003	0.2985	0.0787	1.7100e- 003	0.0804		234.1649	234.1649	5.0500e- 003		234.2912

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	day		
Archit. Coating	6.0426	, , ,				0.0000	0.0000	, , ,	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e- 003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	6.2233	1.2188	1.8101	2.9700e- 003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1188	0.0722	0.7730	2.3500e- 003	0.2967	1.8600e- 003	0.2985	0.0787	1.7100e- 003	0.0804		234.1649	234.1649	5.0500e- 003		234.2912
Total	0.1188	0.0722	0.7730	2.3500e- 003	0.2967	1.8600e- 003	0.2985	0.0787	1.7100e- 003	0.0804		234.1649	234.1649	5.0500e- 003		234.2912

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	lay		
Mitigated	1.2060	5.4136	14.9249	0.0478	4.6783	0.0388	4.7171	1.2502	0.0362	1.2864		4,852.219 8	4,852.219 8	0.2254		4,857.855 6
Unmitigated	1.2577	5.7411	16.2102	0.0533	5.2506	0.0428	5.2934	1.4031	0.0399	1.4430		5,405.429 7	5,405.429 7	0.2460		5,411.580 6

4.2 Trip Summary Information

	Aver	age Daily Trip Ra	ite	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	965.20	965.20	965.20	2,476,808	2,206,836
Parking Lot	0.00	0.00	0.00		
Total	965.20	965.20	965.20	2,476,808	2,206,836

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.566033	0.037143	0.208217	0.113428	0.016713	0.004955	0.018463	0.024036	0.001978	0.001883	0.005758	0.000618	0.000776
Parking Lot	0.566033	0.037143	0.208217	0.113428	0.016713	0.004955	0.018463	0.024036	0.001978	0.001883	0.005758	0.000618	0.000776

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
NaturalGas Mitigated	0.0520	0.4439	0.1889	2.8300e- 003		0.0359	0.0359		0.0359	0.0359		566.7128	566.7128	0.0109	0.0104	570.0805
NaturalGas Unmitigated	0.0547	0.4676	0.1990	2.9800e- 003		0.0378	0.0378		0.0378	0.0378		596.9828	596.9828	0.0114	0.0109	600.5303

5.2 Energy by Land Use - NaturalGas

<u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/	day							lb/c	lay		
Apartments Mid Rise	5074.35	0.0547	0.4676	0.1990	2.9800e- 003		0.0378	0.0378		0.0378	0.0378		596.9828	596.9828	0.0114	0.0109	600.5303
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0547	0.4676	0.1990	2.9800e- 003		0.0378	0.0378		0.0378	0.0378		596.9828	596.9828	0.0114	0.0109	600.5303

Mitigated

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/c	lay		
Apartments Mid Rise	4.81706	0.0520	0.4439	0.1889	2.8300e- 003		0.0359	0.0359		0.0359	0.0359		566.7128	566.7128	0.0109	0.0104	570.0805
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0520	0.4439	0.1889	2.8300e- 003		0.0359	0.0359		0.0359	0.0359		566.7128	566.7128	0.0109	0.0104	570.0805

6.0 Area Detail

6.1 Mitigation Measures Area

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Natomas Park Drive Apartments - Sacramento Metropolitan AQMD Air District, Winter

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	day		
Mitigated	5.2527	0.1809	15.7046	8.3000e- 004		0.0870	0.0870		0.0870	0.0870	0.0000	28.3022	28.3022	0.0273	0.0000	28.9843
Unmitigated	5.2527	0.1809	15.7046	8.3000e- 004		0.0870	0.0870		0.0870	0.0870	0.0000	28.3022	28.3022	0.0273	0.0000	28.9843

6.2 Area by SubCategory

<u>Unmitigated</u>

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/e	day							lb/d	lay		
Architectural Coating	0.6622					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.1160					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4744	0.1809	15.7046	8.3000e- 004		0.0870	0.0870		0.0870	0.0870		28.3022	28.3022	0.0273		28.9843
Total	5.2527	0.1809	15.7046	8.3000e- 004		0.0870	0.0870		0.0870	0.0870	0.0000	28.3022	28.3022	0.0273	0.0000	28.9843

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/e	day							lb/d	day		
Architectural Coating	0.6622	, , ,				0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.1160					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4744	0.1809	15.7046	8.3000e- 004		0.0870	0.0870		0.0870	0.0870		28.3022	28.3022	0.0273		28.9843
Total	5.2527	0.1809	15.7046	8.3000e- 004		0.0870	0.0870		0.0870	0.0870	0.0000	28.3022	28.3022	0.0273	0.0000	28.9843

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Boilers						
Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type	
User Defined Equipment						
Equipment Type	Number					
11.0 Vegetation						

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Natomas Park Drive Apartments

Sacramento Metropolitan AQMD Air District, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	со	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	4	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	6	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	10	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

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Equipment Type	ROG	NOx	со	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
		U	nmitigated tons/yr				Unmitigated mt/yr							
Air Compressors	3.72200E-002	2.51970E-001	3.62120E-001	5.90000E-004	1.31500E-002	1.31500E-002	0.00000E+000	5.10651E+001	5.10651E+001	2.96000E-003	0.00000E+000	5.11392E+001		
Concrete/Industria I Saws	1.07300E-002	8.40300E-002	1.09940E-001	1.90000E-004	4.51000E-003	4.51000E-003	0.00000E+000	1.61297E+001	1.61297E+001	8.80000E-004	0.00000E+000	1.61517E+001		
Cranes	5.98200E-002	6.41160E-001	3.15930E-001	1.01000E-003	2.67300E-002	2.45900E-002	0.00000E+000	8.87157E+001	8.87157E+001	2.86900E-002	0.00000E+000	8.94330E+001		
Excavators	2.21600E-002	1.93750E-001	3.58080E-001	5.70000E-004	9.37000E-003	8.62000E-003	0.00000E+000	4.98973E+001	4.98973E+001	1.61400E-002	0.00000E+000	5.03007E+001		
Forklifts	5.90800E-002	5.53530E-001	6.85270E-001	9.20000E-004	3.31600E-002	3.05100E-002	0.00000E+000	8.05748E+001	8.05748E+001	2.60600E-002	0.00000E+000	8.12263E+001		
Generator Sets	5.91400E-002	5.26440E-001	7.33340E-001	1.32000E-003	2.39400E-002	2.39400E-002	0.00000E+000	1.13041E+002	1.13041E+002	4.78000E-003	0.00000E+000	1.13161E+002		
Graders	8.06000E-003	1.00620E-001	3.42200E-002	1.30000E-004	3.22000E-003	2.96000E-003	0.00000E+000	1.16323E+001	1.16323E+001	3.76000E-003	0.00000E+000	1.17263E+001		
Pavers	7.68000E-003	7.53100E-002	1.15330E-001	1.90000E-004	3.54000E-003	3.26000E-003	0.00000E+000	1.65187E+001	1.65187E+001	5.34000E-003	0.00000E+000	1.66522E+001		
Paving Equipment	6.83000E-003	6.41200E-002	1.02270E-001	1.60000E-004	3.12000E-003	2.87000E-003	0.00000E+000	1.43142E+001	1.43142E+001	4.63000E-003	0.00000E+000	1.44299E+001		
Rollers	6.15000E-003	6.44000E-002	7.40900E-002	1.00000E-004	3.54000E-003	3.26000E-003	0.00000E+000	9.22090E+000	9.22090E+000	2.98000E-003	0.00000E+000	9.29546E+000		
Rubber Tired Dozers	1.66280E-001	1.74623E+000	7.12830E-001	1.71000E-003	8.27500E-002	7.61300E-002	0.00000E+000	1.50055E+002	1.50055E+002	4.85300E-002	0.00000E+000	1.51268E+002		
Tractors/Loaders/ Backhoes	1.13500E-001	1.14935E+000	1.66474E+000	2.32000E-003	5.69100E-002	5.23600E-002	0.00000E+000	2.03805E+002	2.03805E+002	6.59100E-002	0.00000E+000	2.05453E+002		
Welders	4.90800E-002	2.80230E-001	3.34200E-001	5.10000E-004	1.02800E-002	1.02800E-002	0.00000E+000	3.76441E+001	3.76441E+001	3.98000E-003	0.00000E+000	3.77436E+001		

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	500	110			5		51 000		T (1000	0.11			
Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
		M	itigated tons/yr				Mitigated mt/yr						
Air Compressors	3.72200E-002	2.51970E-001	3.62120E-001	5.90000E-004	1.31500E-002	1.31500E-002	0.00000E+000	5.10650E+001	5.10650E+001	2.96000E-003	0.00000E+000	5.11391E+001	
Concrete/Industrial Saws	1.07300E-002	8.40300E-002	1.09940E-001	1.90000E-004	4.51000E-003	4.51000E-003	0.00000E+000	1.61297E+001	1.61297E+001	8.80000E-004	0.00000E+000	1.61517E+001	
Cranes	5.98200E-002	6.41160E-001	3.15930E-001	1.01000E-003	2.67300E-002	2.45900E-002	0.00000E+000	8.87156E+001	8.87156E+001	2.86900E-002	0.00000E+000	8.94329E+001	
Excavators	2.21600E-002	1.93750E-001	3.58080E-001	5.70000E-004	9.37000E-003	8.62000E-003	0.00000E+000	4.98972E+001	4.98972E+001	1.61400E-002	0.00000E+000	5.03007E+001	
Forklifts	5.90800E-002	5.53530E-001	6.85270E-001	9.20000E-004	3.31600E-002	3.05100E-002	0.00000E+000	8.05747E+001	8.05747E+001	2.60600E-002	0.00000E+000	8.12262E+001	
Generator Sets	5.91400E-002	5.26440E-001	7.33340E-001	1.32000E-003	2.39400E-002	2.39400E-002	0.00000E+000	1.13041E+002	1.13041E+002	4.78000E-003	0.00000E+000	1.13161E+002	
Graders	8.06000E-003	1.00620E-001	3.42200E-002	1.30000E-004	3.22000E-003	2.96000E-003	0.00000E+000	1.16323E+001	1.16323E+001	3.76000E-003	0.00000E+000	1.17263E+001	
Pavers	7.68000E-003	7.53100E-002	1.15330E-001	1.90000E-004	3.54000E-003	3.26000E-003	0.00000E+000	1.65186E+001	1.65186E+001	5.34000E-003	0.00000E+000	1.66522E+001	
Paving Equipment	6.83000E-003	6.41200E-002	1.02270E-001	1.60000E-004	3.12000E-003	2.87000E-003	0.00000E+000	1.43142E+001	1.43142E+001	4.63000E-003	0.00000E+000	1.44299E+001	
Rollers	6.15000E-003	6.44000E-002	7.40900E-002	1.00000E-004	3.54000E-003	3.26000E-003	0.00000E+000	9.22089E+000	9.22089E+000	2.98000E-003	0.00000E+000	9.29545E+000	
Rubber Tired Dozers	1.66280E-001	1.74623E+000	7.12830E-001	1.71000E-003	8.27500E-002	7.61300E-002	0.00000E+000	1.50054E+002	1.50054E+002	4.85300E-002	0.00000E+000	1.51268E+002	
Tractors/Loaders/Ba ckhoes	1.13500E-001	1.14935E+000	1.66474E+000	2.32000E-003	5.69100E-002	5.23600E-002	0.00000E+000	2.03805E+002	2.03805E+002	6.59100E-002	0.00000E+000	2.05453E+002	
Welders	4.90800E-002	2.80230E-001	3.34200E-001	5.10000E-004	1.02800E-002	1.02800E-002	0.00000E+000	3.76441E+001	3.76441E+001	3.98000E-003	0.00000E+000	3.77435E+001	

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Equipment Type	ROG	NOx	со	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e			
	Percent Reduction														
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17497E-006	1.17497E-006	0.00000E+000	0.00000E+000	1.17327E-006			
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23995E-006	1.23995E-006	0.00000E+000	0.00000E+000	1.23826E-006			
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23992E-006	1.23992E-006	0.00000E+000	0.00000E+000	1.22997E-006			
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20247E-006	1.20247E-006	0.00000E+000	0.00000E+000	1.19283E-006			
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.24108E-006	1.24108E-006	0.00000E+000	0.00000E+000	1.10802E-006			
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15002E-006	1.15002E-006	0.00000E+000	0.00000E+000	1.14881E-006			
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.71935E-006	1.71935E-006	0.00000E+000	0.00000E+000	1.70556E-006			
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21075E-006	1.21075E-006	0.00000E+000	0.00000E+000	1.20104E-006			
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.39722E-006	1.39722E-006	0.00000E+000	0.00000E+000	1.38601E-006			
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.08449E-006	1.08449E-006	0.00000E+000	0.00000E+000	1.07579E-006			
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19956E-006	1.19956E-006	0.00000E+000	0.00000E+000	1.18994E-006			
Tractors/Loaders/Ba ckhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17760E-006	1.17760E-006	0.00000E+000	0.00000E+000	1.21682E-006			
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.32823E-006	1.32823E-006	0.00000E+000	0.00000E+000	1.32473E-006			

Fugitive Dust Mitigation

CalEEMod Version: CalEEMod.2016.3.2

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input	
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	PM2.5 Reduction		
No	Water Exposed Area	PM10 Reduction	 PM2.5 Reduction	Frequency (per day)	

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I	No	Unpaved Road Mitigation	Moisture Content %		Vehicle Speed (mph)	0.00			
	No	Clean Paved Road	% PM Reduction	0.00					

		Unmitigated Mitigated			Percent Reduction		
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.06	0.02	0.06	0.02	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.34	0.09	0.34	0.09	0.00	0.00
Demolition	Fugitive Dust	0.02	0.00	0.02	0.00	0.00	0.00
Demolition	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grading	Fugitive Dust	0.14	0.07	0.14	0.07	0.00	0.00
Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.72	0.40	0.72	0.40	0.00	0.00
Site Preparation	Roads	0.01	0.00	0.01	0.00	0.00	0.00

Operational Percent Reduction Summary

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Category	ROG	NOx	со	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00	100.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	3.85	5.55	8.41	10.28	9.30	9.42	0.00	10.22	10.22	8.59	0.00	10.21
Natural Gas	5.11	5.06	5.07	3.70	5.07	5.07	0.00	5.07	5.07	4.76	4.97	5.07
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	20.00	20.00	20.00	20.06	20.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00	0.00	0.00	
No	Land Use	Increase Diversity	0.09	0.31		
No	Land Use	Improve Walkability Design	0.00	0.00		
No	Land Use	Improve Destination Accessibility	0.00	0.00		
Yes	Land Use	Increase Transit Accessibility	0.18	0.20		
No	Land Use	Integrate Below Market Rate Housing	0.00	0.00		
	Land Use	Land Use SubTotal	0.10			

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s Neighborhood Enhancements	Improve Pedestrian Network	1.00	Project Site			
Neighborhood Enhancements	Provide Traffic Calming Measures	0.00				
Neighborhood Enhancements	Implement NEV Network	0.00				
Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.01				
Parking Policy Pricing	Limit Parking Supply	0.00	0.00			
Parking Policy Pricing	Unbundle Parking Costs	0.00	0.00			
Parking Policy Pricing	On-street Market Pricing	0.00	0.00			
Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00				
Transit Improvements	Provide BRT System	0.00	0.00			
Transit Improvements	Expand Transit Network	0.00	0.00			
Transit Improvements	Increase Transit Frequency	0.00		0.00		
Transit Improvements	Transit Improvements Subtotal	0.00				
	Land Use and Site Enhancement Subtotal	0.11				
Commute	Implement Trip Reduction Program					
Commute	Transit Subsidy					
Commute	Implement Employee Parking "Cash Out"	4.50				
Commute	Workplace Parking Charge		0.00			
o Commute	Encourage Telecommuting and Alternative Work Schedules	0.00				
Commute	Market Commute Trip Reduction Option	0.00				
Commute	Employee Vanpool/Shuttle	0.00		2.00		
Commute	Provide Ride Sharing Program	10.00				
Commute	Commute Subtotal	0.00				
	od Version: CalEEMod.2016.3.2 s Neighborhood Enhancements o Neighborhood Enhancements o Neighborhood Enhancements o Neighborhood Enhancements o Parking Policy Pricing o Transit Improvements o Transit Improvements o Transit Improvements o Commute o Commute	bd Version: CalEEMod.2016.3.2 Page 8 of 11 s Neighborhood Enhancements Improve Pedestrian Network b Neighborhood Enhancements Provide Traffic Calming Measures b Neighborhood Enhancements Implement NEV Network Neighborhood Enhancements Neighborhood Enhancements Neighborhood Enhancements b Parking Policy Pricing Limit Parking Supply b Parking Policy Pricing Unbundle Parking Costs b Parking Policy Pricing On-street Market Pricing b Transit Improvements Provide BRT System b Transit Improvements Expand Transit Network b Transit Improvements Increase Transit Frequency commute Implement Trip Reduction Program commute Implement Employee Parking Charge commute Workplace Parking Charge commute Market Commute Trip Reduction Option commute Market Commute Trip Reduction Option commute Provide Ride Sharing Program commute Provide Ride Sharing Program	bd Version: CalEEMod.2016.3.2 Page 8 of 11 s Neighborhood Enhancements Improve Pedestrian Network 1.00 o Neighborhood Enhancements Provide Traffic Calming Measures 0.00 o Neighborhood Enhancements Implement NEV Network 0.00 o Neighborhood Enhancements Implement NEV Network 0.00 o Neighborhood Enhancements Neighborhood Enhancements 0.00 o Parking Policy Pricing Limit Parking Supply 0.00 o Parking Policy Pricing Unbundle Parking Costs 0.00 o Parking Policy Pricing On-street Market Pricing 0.00 o Parking Policy Pricing Provide BRT System 0.00 o Transit Improvements Expand Transit Network 0.00 o Transit Improvements Increase Transit Frequency 0.00 o Transit Improvements Transit Improvements Subtotal 0.11 o Commute Implement Trip Reduction Program 0.00 o Commute Implement Employee Parking "Cash Out" 4.50 o Commute Market Commute Trip Reduction Option 0.00 o Commute Encourage Telecommuting and Alternative Work Schedules 0.00 <td>bd Version: CalEEMod.2016.3.2 Page 8 of 11 Date: 5/. s Neighborhood Enhancements Improve Pedestrian Network 1.00 Project Site o Neighborhood Enhancements Implement NEV Network 0.00 o Neighborhood Enhancements Implement NEV Network 0.00 o Neighborhood Enhancements Neighborhood Enhancements Neighborhood Enhancements o Neighborhood Enhancements Neighborhood Enhancements 0.00 Parking Policy Pricing Limit Parking Supply 0.00 0.00 o Parking Policy Pricing On-street Market Pricing 0.00 0.00 o Parking Policy Pricing On-street Market Pricing 0.00 0.00 o Parking Policy Pricing Parking Policy Pricing Subtotal 0.00 0.00 o Transit Improvements Expand Transit Network 0.00 0.00 o Transit Improvements Increase Transit Frequency 0.00 0.00 o Commute Implement Trip Reduction Program 0.00 0.00 o Commute Implement Employee Parking 'Cash Out' 4.50 o Commute Implement Engloyee Parking 'Cash Out' 4.50 o Commute Implement Employee Parking 'Cash</td> <td>page 8 of 11 Date: 5/27/2021 11:03 AM s Neighborhood Enhancements Improve Pedestrian Network 1.00¹ Project Site 0 Neighborhood Enhancements Provide Traffic Calming Measures 0.00 1 Neighborhood Enhancements Implement NEV Network 0.00 1 Neighborhood Enhancements Implement NEV Network 0.00 1 Neighborhood Enhancements Neighborhood Enhancements Neighborhood Enhancements 1 Neighborhood Enhancements Neighborhood Enhancements 0.00 1 Parking Policy Pricing Limit Parking Supply 0.00 2 Parking Policy Pricing On-street Market Pricing 0.00 2 Parking Policy Pricing Parking Policy Pricing Network 0.00 2 Transit Improvements Provide BRT System 0.00 0.00 3 Transit Improvements Increase Transit Network 0.00 0.00 4 Transit Improvements Increase Transit Provide RT System 0.00 0.00 5 Commute Implement Trip Reduction Program 0.00 0.00 6 Commute Implement Trip Reduction Program 0.00 0.00 7 Commute Market Commute Trip Reduction Option 0.00<!--</td--></td>	bd Version: CalEEMod.2016.3.2 Page 8 of 11 Date: 5/. s Neighborhood Enhancements Improve Pedestrian Network 1.00 Project Site o Neighborhood Enhancements Implement NEV Network 0.00 o Neighborhood Enhancements Implement NEV Network 0.00 o Neighborhood Enhancements Neighborhood Enhancements Neighborhood Enhancements o Neighborhood Enhancements Neighborhood Enhancements 0.00 Parking Policy Pricing Limit Parking Supply 0.00 0.00 o Parking Policy Pricing On-street Market Pricing 0.00 0.00 o Parking Policy Pricing On-street Market Pricing 0.00 0.00 o Parking Policy Pricing Parking Policy Pricing Subtotal 0.00 0.00 o Transit Improvements Expand Transit Network 0.00 0.00 o Transit Improvements Increase Transit Frequency 0.00 0.00 o Commute Implement Trip Reduction Program 0.00 0.00 o Commute Implement Employee Parking 'Cash Out' 4.50 o Commute Implement Engloyee Parking 'Cash Out' 4.50 o Commute Implement Employee Parking 'Cash	page 8 of 11 Date: 5/27/2021 11:03 AM s Neighborhood Enhancements Improve Pedestrian Network 1.00 ¹ Project Site 0 Neighborhood Enhancements Provide Traffic Calming Measures 0.00 1 Neighborhood Enhancements Implement NEV Network 0.00 1 Neighborhood Enhancements Implement NEV Network 0.00 1 Neighborhood Enhancements Neighborhood Enhancements Neighborhood Enhancements 1 Neighborhood Enhancements Neighborhood Enhancements 0.00 1 Parking Policy Pricing Limit Parking Supply 0.00 2 Parking Policy Pricing On-street Market Pricing 0.00 2 Parking Policy Pricing Parking Policy Pricing Network 0.00 2 Transit Improvements Provide BRT System 0.00 0.00 3 Transit Improvements Increase Transit Network 0.00 0.00 4 Transit Improvements Increase Transit Provide RT System 0.00 0.00 5 Commute Implement Trip Reduction Program 0.00 0.00 6 Commute Implement Trip Reduction Program 0.00 0.00 7 Commute Market Commute Trip Reduction Option 0.00 </td	

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ſ	No	School Trip	Implement School Bus Program	0.00]
	Total VMT F		Total VMT Reduction	0.11		rr	

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
Yes	No Hearth	T I I I
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	100.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Exceed Title 24	7.00	
No	Install High Efficiency Lighting	0.00	
Yes	On-site Renewable	0.00	100.00

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Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator	r	15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Apply Water Conservation on Strategy	20.00	20.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value

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Institute Recycling and Composting Services Percent Reduction in Waste Disposed					

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AERMOD Model Options

Model Options

Pathway	Keyword	Description	Value
СО	TITLEONE	Project title 1	Natomas Park Drive Apartments
СО	TITLETWO	Project title 2	
СО	MODELOPT	Model options	DFAULT,CONC,NODRYDPLT,NOWETDPLT
СО	AVERTIME	Averaging times	1,ANNUAL
СО	URBANOPT	Urban options	
СО	POLLUTID	Pollutant ID	РМ25 Н1Н
СО	HALFLIFE	Half life	
СО	DCAYCOEF	Decay coefficient	
СО	FLAGPOLE	Flagpole receptor heights	1.8
СО	RUNORNOT	Run or Not	RUN
СО	EVENTFIL	Event file	F
СО	SAVEFILE	Save file	F
СО	INITFILE	Initialization file	
СО	MULTYEAR	Multiple year option	N/A
СО	DEBUGOPT	Debug options	N/A
СО	ERRORFIL	Error file	F
SO	ELEVUNIT	Elevation units	METERS
SO	EMISUNIT	Emission units	N/A
RE	ELEVUNIT	Elevation units	METERS
ME	SURFFILE	Surface met file	C:\Users\bshea\Desktop\METEOR~1\SACINT~1.SFC
ME	PROFFILE	Profile met file	C:\Users\bshea\Desktop\METEOR~1\SACINT~1.PFL
ME	SURFDATA	Surf met data info.	93225 2014
ME	UAIRDATA	U-Air met data info.	23230 2014
ME	SITEDATA	On-site met data info.	
ME	PROFBASE	Elev. above MSL	8.23
ME	STARTEND	Start-end met dates	
ME	WDROTATE	Wind dir. rot. adjust.	
ME	WINDCATS	Wind speed cat. max.	
ME	SCIMBYHR	SCIM sample params	
EV	DAYTABLE	Print summary opt.	N/A
OU	EVENTOUT	Output info. level	N/A

Appendix A

Source Parameter Tables

All Sources

I

Source ID /	Source Type	Description	UT	М	Elev.	Emiss. Rate	Emiss.	Release Height
Pollutant ID	source 15pe	Description	East (m)	North (m)	(m)	2	Units	(m)
HUNH2001	VOLUME		630216.7	4274621.1	0	0.0007987552	(g/s)	5
HUNH2002	VOLUME		630280.3	4274621.1	0	0.0007987552	(g/s)	5
HUNH2003	VOLUME		630216.7	4274684.7	0	0.0007987552	(g/s)	5
HUNH2004	VOLUME		630280.3	4274684.7	0	0.0007987552	(g/s)	5
HUNH2005	VOLUME		630216.7	4274748.3	0	0.0007987552	(g/s)	5
HUNH2006	VOLUME		630280.3	4274748.3	0	0.0007987552	(g/s)	5
HUNH2007	VOLUME		630280.3	4274812	0	0.0007987552	(g/s)	5

Volume Sources

Source ID /	Description	UTM		Elev.	Emiss. Rate	Release Height	Init. Lat. Dim.	Init. Vert. Dim.
Pollutant ID	Description	East (m)	North (m)	(m)	(g/s)	(m)	(m)	(m)
HUNH2001		630216.7	4274621.1	0	0.0007987552	5	29.59	1
HUNH2002		630280.3	4274621.1	0	0.0007987552	5	29.59	1
HUNH2003		630216.7	4274684.7	0	0.0007987552	5	29.59	1
HUNH2004		630280.3	4274684.7	0	0.0007987552	5	29.59	1
HUNH2005		630216.7	4274748.3	0	0.0007987552	5	29.59	1
HUNH2006		630280.3	4274748.3	0	0.0007987552	5	29.59	1
HUNH2007		630280.3	4274812	0	0.0007987552	5	29.59	1

BREEZE AERMOD Model Results

	Illah		U.	ТМ	Elev.	Elev. Hill Ht.		D	
Group ID	High	Avg. Conc.	East (m)	North (m)	(m)	(m)	(m)	кес. туре	Gria ID
ALL	1ST	0.10969	630341.70	4274709.60	0.00	0.00	1.80	DC	
	2ND	0.10933	630341.70	4274714.60	0.00	0.00	1.80	DC	
	3RD	0.10882	630341.70	4274719.60	0.00	0.00	1.80	DC	
	4TH	0.10813	630341.70	4274724.60	0.00	0.00	1.80	DC	
	5TH	0.10612	630342.10	4274643.30	0.00	0.00	1.80	DC	
	6TH	0.10197	630317.00	4274567.30	0.00	0.00	1.80	DC	
	7TH	0.10087	630302.00	4274557.30	0.00	0.00	1.80	DC	
	8TH	0.10066	630312.00	4274562.30	0.00	0.00	1.80	DC	
	9TH	0.09959	630346.70	4274694.60	0.00	0.00	1.80	DC	
	10TH	0.09936	630346.70	4274699.60	0.00	0.00	1.80	DC	

Max. Annual (4 YEARS) Results of Pollutant: PM25 (ug/m**3)

Highest Results of Pollutant: PM25

Avg.	Grp	High	Hiah	Turne	Val	Unite	Date	U	М	Elev.	Hill Ht.	Flag Ht. Rec	Rec.	Grid
Per.	ID		підп Туре	pe vai	Units	YYMMDDHH	East (m)	North (m)	(m)	(m)	(m)	Туре	ID	
1-HR	ALL	1ST	Avg. Conc.	5.49300	ug/m**3	14121409	630188.60	4274561.80	0.00	0.00	1.80	DC		

Summary of Total Messages

#	Message Type
0	Fatal Error Message(s)
6	Warning Message(s)
996	Informational Message(s)
43680	Hours Were Processed
452	Calm Hours Identified
544	Missing Hours Identified (1.25 Percent)

Error & Warning Messages						
Msg. Type Pathway Ref. # Description						
WARNING	СО	<u>W276</u>	Special proc for 1h-NO2/SO2 24hPM25 NAAQS disabled PM25 H1H			
WARNING	CO	<u>W363</u>	Multiyr 24h/Ann PM25 processing not applicable for PM25 H1H			

WARNING	ME	<u>W186</u>	THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

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Appendix A

AERMOD Model Options

Model Options

Pathway	Keyword	Description	Value
СО	TITLEONE	Project title 1	Natomas Park Drive Apartments
СО	TITLETWO	Project title 2	
СО	MODELOPT	Model options	DFAULT,CONC,NODRYDPLT,NOWETDPLT
СО	AVERTIME	Averaging times	1,ANNUAL
СО	URBANOPT	Urban options	
СО	POLLUTID	Pollutant ID	РМ25 Н1Н
СО	HALFLIFE	Half life	
СО	DCAYCOEF	Decay coefficient	
СО	FLAGPOLE	Flagpole receptor heights	1.8
СО	RUNORNOT	Run or Not	RUN
СО	EVENTFIL	Event file	F
СО	SAVEFILE	Save file	F
СО	INITFILE	Initialization file	
СО	MULTYEAR	Multiple year option	N/A
СО	DEBUGOPT	Debug options	N/A
СО	ERRORFIL	Error file	F
SO	ELEVUNIT	Elevation units	METERS
SO	EMISUNIT	Emission units	N/A
RE	ELEVUNIT	Elevation units	METERS
ME	SURFFILE	Surface met file	C:\Users\bshea\Desktop\METEOR~1\SACINT~1.SFC
ME	PROFFILE	Profile met file	C:\Users\bshea\Desktop\METEOR~1\SACINT~1.PFL
ME	SURFDATA	Surf met data info.	93225 2014
ME	UAIRDATA	U-Air met data info.	23230 2014
ME	SITEDATA	On-site met data info.	
ME	PROFBASE	Elev. above MSL	8.23
ME	STARTEND	Start-end met dates	
ME	WDROTATE	Wind dir. rot. adjust.	
ME	WINDCATS	Wind speed cat. max.	
ME	SCIMBYHR	SCIM sample params	
EV	DAYTABLE	Print summary opt.	N/A
OU	EVENTOUT	Output info. level	N/A

Appendix A

Source Parameter Tables

All Sources

I

Source ID / Pollutant ID	Source Type	Description	UT	М	Elev.	Emiss. Rate	Emiss. Units	Release Height
			East (m)	North (m)	(m)			(m)
HUNH2001	VOLUME		630216.7	4274621.1	0	0.00019018	(g/s)	5
HUNH2002	VOLUME		630280.3	4274621.1	0	0.00019018	(g/s)	5
HUNH2003	VOLUME		630216.7	4274684.7	0	0.00019018	(g/s)	5
HUNH2004	VOLUME		630280.3	4274684.7	0	0.00019018	(g/s)	5
HUNH2005	VOLUME		630216.7	4274748.3	0	0.00019018	(g/s)	5
HUNH2006	VOLUME		630280.3	4274748.3	0	0.00019018	(g/s)	5
HUNH2007	VOLUME		630280.3	4274812.0	0	0.00019018	(g/s)	5

Volume Sources

Source ID / Pollutant ID	Description	UTM		Elev.	Emiss. Rate	Release Height	Init. Lat. Dim.	Init. Vert. Dim.
		East (m)	North (m)	(m)	(g/s)	(m)	(m)	(m)
HUNH2001		630216.7	4274621.1	0	0.00019018	5	29.59	1
HUNH2002		630280.3	4274621.1	0	0.00019018	5	29.59	1
HUNH2003		630216.7	4274684.7	0	0.00019018	5	29.59	1
HUNH2004		630280.3	4274684.7	0	0.00019018	5	29.59	1
HUNH2005		630216.7	4274748.3	0	0.00019018	5	29.59	1
HUNH2006		630280.3	4274748.3	0	0.00019018	5	29.59	1
HUNH2007		630280.3	4274812.0	0	0.00019018	5	29.59	1
BREEZE AERMOD	Model	Results						
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			,				(5/		
Crown ID	Lliah	Ave Cone	U	ТМ	Elev.	Hill Ht.	Flag Ht.		0.1170
	High	Avg. conc.	East (m)	North (m)	(m)	(m)	(m)	кес. туре	Grid ID
ALL	1ST	0.02612	630341.70	4274709.60	0.00	0.00	1.80	DC	
	2ND	0.02603	630341.70	4274714.60	0.00	0.00	1.80	DC	
	3RD	0.02591	630341.70	4274719.60	0.00	0.00	1.80	DC	
	4TH	0.02575	630341.70	4274724.60	0.00	0.00	1.80	DC	
	5TH	0.02527	630342.10	4274643.30	0.00	0.00	1.80	DC	
	6TH	0.02428	630317.00	4274567.30	0.00	0.00	1.80	DC	
	7TH	0.02402	630302.00	4274557.30	0.00	0.00	1.80	DC	
	8TH	0.02397	630312.00	4274562.30	0.00	0.00	1.80	DC	
	9TH	0.02371	630346.70	4274694.60	0.00	0.00	1.80	DC	
	10TH	0.02366	630346.70	4274699.60	0.00	0.00	1.80	DC	

Max. Annual (4 YEARS) Results of Pollutant: PM25 (ug/m**3)

Highest Results of Pollutant: PM25

Avg.	Grp	Ula h	Turne	Val	Unite	Date	TU	М	Elev.	Hill Ht.	Flag Ht.	Rec.	Grid
Per.	ID	пign	туре	vai	Units	Units YYMMDDHH E	East (m)	North (m)	(m)	(m)	(m) (m) ^{Ty}	Туре	3 ID
1-HR	ALL	1ST	Avg. Conc.	1.30786	ug/m**3	14121409	630188.60	4274561.80	0.00	0.00	1.80	DC	

Summary of Total Messages

#	Message Type
0	Fatal Error Message(s)
6	Warning Message(s)
996	Informational Message(s)
43680	Hours Were Processed
452	Calm Hours Identified
544	Missing Hours Identified (1.25 Percent)

Error & Warning Messages					
Msg. Type	Pathway	Ref. #	Description		
WARNING	СО	<u>W276</u>	Special proc for 1h-NO2/SO2 24hPM25 NAAQS disabled PM25 H1H		
WARNING	СО	<u>W363</u>	Multiyr 24h/Ann PM25 processing not applicable for PM25 H1H		

WARNING	ME	<u>W186</u>	THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

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Appendix A

HARP2 - HRACalc (dated 19044) 5/6/2021 2:32:54 PM - Output Log GLCs loaded successfully Pollutants loaded successfully RISK SCENARIO SETTINGS Receptor Type: Resident Scenario: All Calculation Method: HighEnd ****** EXPOSURE DURATION PARAMETERS FOR CANCER Start Age: -0.25 Total Exposure Duration: 3 Exposure Duration Bin Distribution 3rd Trimester Bin: 0.25 0<2 Years Bin: 2 2<9 Years Bin: 1 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: ON ****** 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 Calculating cancer risk Cancer risk saved to: C:\Users\bshea\Desktop\HARP\Natomas Mit1_CancerRisk.csv Calculating chronic risk Chronic risk saved to: C:\Users\bshea\Desktop\HARP\Natomas Mit1_NCChronicRisk.csv Calculating acute risk Acute risk saved to: C:\Users\bshea\Desktop\HARP\Natomas Mit1_NCAcuteRisk.csv HRA ran successfully

 *HARP - HRACalc v19044 5/6/2021 2:32:54 PM - Cancer Risk - Input File: C:\Users\bshea\Desktop\HARP\Natomas Mit1_HRAInput.hra

 INDEX
 GRP1
 GRP2
 POLID
 POLABBREV
 CONC
 RISK_SUM
 SCENARIO
 DETAILS
 INH_RISK
 SOIL_RISK

 1
 9901
 DieselExhPM
 0.02612
 9.95E-06
 3YrCancerHighEnd_Inh_FAH16to70
 *
 9.95E-06
 0.00E+00

Appendix A

DERMAL_RISK MMILK_RISK WATER_RISK FISH_RISK CROP_RISK BEEF_RISK DAIRY_RISK PIG_RISK CHICKEN_RISK EGG_RISK 1ST_DRIVER 0.00E+00 0.00E+0000E+ 2ND_DRIVERPASTURE_CONCFISH_CONCWATER_CONCNA0.00E+000.00E+000.00E+00

 *HARP - HRACalc v19044 5/6/2021 2:32:54 PM - Chronic Risk - Input File: C:\Users\bshea\Desktop\HARP\Natomas Mit1_HRAInput.hra

 INDEX
 GRP1
 GRP2
 POLID
 POLABBREV
 CONC
 SCENARIO
 CV
 CNS
 IMMUN
 KIDNEY
 GILV

 1
 9901
 DieselExhPM
 0.02612
 NonCancerChronicHighEnd_Inh
 0.00E+00
 0.00E+00

 REPRO/DEVEL
 RESP
 SKIN
 EYE
 BONE/TEETH
 ENDO
 BLOOD
 ODOR
 GENERAL
 DETAILS
 INH_CONC
 SOIL_DOSE

 0.00E+00
 5.22E-03
 0.00E+00
 0.00E+00

DERMAL_DOSE MMILK_DOSE WATER_DOSE FISH_DOSE CROP_DOSE BEEF_DOSE DAIRY_DOSE PIG_DOSE CHICKEN_DOSE EGG_DOSE 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

Appendix A

1ST_DRIVER2ND_DRIVER3RD_DRIVERPASTURE_CONCFISH_CONCWATER_CONCINHALATIONNA0.00E+000.00E+000.00E+000.00E+00

 *HARP - HRACalc v19044 5/6/2021 2:32:54 PM - Acute Risk - Input File: C:\Users\bshea\Desktop\HARP\Natomas Mit1_HRAInput.hra

 INDEX
 GRP1
 GRP2
 POLID
 POLABBREV
 CONC
 SCENARIO
 CV
 CNS
 IMMUN
 KIDNEY
 GILV
 REPRO/DEVEL

 1
 9901
 DieselExhPM
 1.30786
 NonCancerAcute
 0.00E+00
 0.00E+00
 0.00E+00
 0.00E+00
 0.00E+00
 0.00E+00

 RESP
 SKIN
 EYE
 BONE/TEETH
 ENDO
 BLOOD
 ODOR
 GENERAL

 0.00E+00
 <td



June 14, 2021 Revised July 29, 2021

Mitchell McKinzie Demmon Partners 601 University Avenue, Suite 110 Sacramento, California 95825Via Email: mitchell@demmonpartners.com

PRELIMINARY ARBORIST FINDINGS FOR A CONCEPTUAL DEVELOPMENT PLAN

RE: 2450 Natomas Park Drive, City of Sacramento Jurisdiction

Executive Summary:

Demmon Partners contacted California Tree and Landscape Consulting, Inc. to inventory and evaluate the protected trees on the site or within 25' of development for the purpose of processing plans for site improvements¹. The property falls under the jurisdiction of the City of Sacramento. See Supporting Information Appendix A – Tree Location Map.

Cathie Bown, ISA Certified Arborist #WE-13086A, was on site January 12, 2021; Nicole Harrison, ISA Certified Arborist #WE-6500AM visited the site several times between January and June, 2021. A total of 143 trees were evaluated on the parcel and 13 trees from the neighboring properties are included due to their proximity to the proposed development². There are 53 trees on the parcel which are considered 'Private-Protected' by the City of Sacramento Tree Preservation Code Chapter 12.56, of which eight (8) are proposed for removal for the project. *A waiver of mitigation fees is proposed for five (5) of the trees*^{4,5}. *In addition, there are four (4) unprotected trees on the parcel to be preserved that should be considered as a credit for mitigation – See Table 2 below.*

Tree Species	Trees Inventoried	Trees located on the Parcel ²	Trees located on the Parcel Protected by Sacramento City Tree Preservation Code	Proposed for Removal
Coast Live Oak, Quercus agrifolia	10	8	8 (Private Protected)	3 ³
Coast Redwood, Sequoia sempervirens 3B	10	0		0
Deodar Cedar, Cedrus deodara	3	2	1 (Private Protected)	1
Flowering Ornamental Pear, Pyrus calleryana	35	35	0	26
Fremont Cottonwood, Populus fremontii	3	3	2 (Private Protected)	34
Holly Oak, Quercus ilex	9	9	0	3
Canary Island Pine, Pinus canariensis	4	4	3 (Private Protected)	4

Table 1 – Tree Inventory

¹ Preliminary Grading Plans by RSC Engineering, dated 4/9/2021; Sheet GR1

² CalTLC is not a licensed land surveyor. Tree ownership was not determined. Conclusions within this report are based on existing fences or other landmarks which may not represent the actual property boundary

³ Coast Live Oaks along the pathway beside the recent parking lot installation are all diseased and/or dying. Treatment may save some but most will require removal, up to 3 located on this parcel and 2 which are off-site. None of these trees are proposed for removal because of the development.

^{3B.} All Coast Redwood located offsite were not measured. It is assumed they will all meet the requirement for Private Protected trees. ⁴ The Cottonwood are high risk in a public place and are both recommended for removal. See attached Tree Risk Assessment.

Demmon Partners: 2450 Natomas Park Drive, City of Sacramento

Tree Species	Trees Inventoried	Trees located on the Parcel ²	Protected by Sacramento City Tree Preservation Code	Proposed for Removal
Maple, Acer sp.	8	8	0	8
Mediterranean Fan Palm, Chamaerops humilis	4	4	0	4
Queen Palm, Syagrus romanzoffiana	2	2	0	2
Red Oak, Quercus rubra	22	22	4 (Private Protected)	05
Sawleaf Zelkova, Zelkova serrata	1	1	0	0
Valley Oak, Quercus lobata	45	45	35 (Private Protected)	06
Total	156	143	53	54

See Appendices for specific information on each tree and preservation requirements and/or restrictions.

Tree	Common	Botanical	Total	Condition	Development Status ⁷	Mitigation	Running Total
2554	Fremont Cottonwood	Populus fremontii	25	2 Major Structure or Health Problems	Proposed for Removal with Waiver due to uncorrectable structural defect	No	
2556	Fremont Cottonwood	Populus fremontii	46	1 Extreme Structure or Health Problems	Proposed for Removal with Waiver due to High Risk	No	
2560	Coast Live Oak	Quercus agrifolia	25	0 - Dead	Remove with Waiver due to Condition - Dead/Diseased	No	
2561	Coast Live Oak	Quercus agrifolia	23	0 - Dead	Remove with Waiver due to Condition – Dead/Diseased	No	
2562	Coast Live Oak	Quercus agrifolia	19	2 Major Structure or Health Problems	Remove with Waiver due to Condition - Diseased	No	
2593	Canary Island Pine	Pinus canariensis	28	3 Fair - Minor Problems	Proposed for Removal	Yes	28
2595	Canary Island Pine	Pinus canariensis	31	3 Fair - Minor Problems	Proposed for Removal	Yes	59
2596	Canary Island Pine	Pinus canariensis	28	3 Fair - Minor Problems	Proposed for Removal	Yes	87
						Total	87
2579	Red Oak	Quercus rubra	21	3 Fair - Minor Problems	Preserved	(21)	66
2584	Red Oak	Quercus rubra	21	3 Fair - Minor Problems	Preserved	(21)	45
2586	Red Oak	Quercus rubra	22	3 Fair - Minor Problems	Preserved	(22)	23
2589	Red Oak	Quercus rubra	19	3 Fair - Minor Problems	Preserved	(21)	2
						Total	2

Table 2 – Mitigation Requirements

⁷ See Appendix 6 for Specific Information regarding application for fee waiver.



⁵ Minor revisions to the grading plan to relocate proposed storm drain will be required to preserve these trees.

⁶ Minor revisions to the grading plan and/or arborist onsite supervision during development may be required for trees closest to the development area.

<u>Appendix B</u> in this report is the detailed inventory and recommendations for the trees. The following terms and Table A – Ratings Description will further explain our findings.

The protected trees evaluated as part of this report have a numbered tag that was placed on each one that is $1-1/8" \times 1-3/8"$, green anodized aluminum, "acorn" shaped, and labeled: CalTLC, Auburn, CA with 1/4" pre-stamped tree number and Tree Tag. They are attached with a natural-colored aluminum 10d nail, installed at approximately 6' above ground level on the approximate north side of the tree. The tag should last $\sim 10 - 20+$ years depending on the species, before it is enveloped by the trees' normal growth cycle.

A Level 2 – Basic Visual Assessment was performed in accordance with the International Society of Arboriculture's best management practices. This assessment level is limited to the observation of conditions and defects which are readily visible. Additional limiting factors, such as blackberries, poison oak, and/or debris piled at the base of a tree can inhibit the visual assessment.

<u>Tree Location</u>: The GPS location of each tree was collected using the ESRI's ArcGIS collector application on an Apple iPhone or Samsung. The data was then processed in ESRI's ArcMap by Julie McNamara, M.S. GISci, to produce the tree location map.

<u>Tree Measurements</u>: DBH (diameter breast high) is normally measured at 4'6" (above the average ground height for "Urban Forestry"), but if that varies then the location where it is measured is noted. A Swedish caliper was used to measure the DBH for trees less than 23" in diameter and a steel diameter tape for trees greater than 23". A Stanley laser distance meter was used to measure distances. Canopy radius measurements may also have been estimated due to obstructions.

Terms

- Field Tag # The pre-stamped tree number on the tag which is installed at approximately 6' above ground level on the north side of the tree.
- City Tag # The number listed on the City of Sacramento tree inventory in the ARC GIS system found online at: saccity.maps.arcgis.com
- Species The species of a tree is listed by our local and correct common name and botanical name by genus (capitalized) and species (lower case). Oaks frequently cross-pollinate and hybridize, but the identification is towards the strongest characteristics.
- DBH Diameter breast high' is normally measured at 4'6" (above the average ground height for "Urban Forestry"), but if that varies then the location where it is measured is noted in the next column "measured at"
- DSH "Diameter at standard height" is the same as DBH except as follows (according to the City of Sacramento requirements): (1) For a tree that branches at or below 4.5', DSH means the diameter at the narrowest point between the grade and the branching point; and (2) For a tree with a common root system that branches at the ground, DSH means the sum of the diameter of the largest trunk plus one-half the cumulative diameter of the remaining trunks at 4.5' above natural grade.

Canopy The farthest extent of the crown composed of leaves and small twigs. Most trees are not evenly balanced.
 radius and This measurement represents the longest extension from the trunk to the outer canopy. The dripline
 Protection measurement is from the center point of the tree and is shown on the Tree Location Map as a circle. This measurement further defines the radius of the protection zone to be specified on any development plans unless otherwise indicated in the arborist recommendations, Appendix 2.



Critical Root The radius of the critical root zone is a circle equal to the trunk diameter" converted to' and factored by tree age, condition and health pursuant to the industry standard. Best Management Practices: Managing Trees During Construction, the companion publication to the Approved American National Standard, provides guidance regarding minimum tree root protection zones for long term survival. In instances where a tree is multi-stemmed the protected root zone is equal to the extrapolated diameter (sum of the area of each stem converted to a single stem) factored by tree age, condition and health.

Arborist Subjective to condition and is based on both the health and structure of the tree. All of the trees were rated for condition, per the recognized national standard as set up by the Council of Tree and Landscape Appraisers and the International Society of Arboriculture (ISA) on a numeric scale of 5 (being the highest) to 0 (the worst condition, dead) as in Chart A. The rating was done in the field at the time of the measuring and inspection.

Arborist Ratings		
No problem(s)	Excellent	5
No apparent problem(s)	Good	4
Minor problem(s)	Fair	3
Major problem(s)	Fair to Poor	2
Extreme problem(s)	Poor	1
Dead	Dead	0

<u>Rating #0:</u> This indicates a tree that has no significant sign of life.

<u>Rating #1:</u> The problems are extreme. This rating is assigned to a tree that has structural and/or health problems that no amount of work or effort can change. The issues may or may not be considered a dangerous situation.

<u>Rating #2:</u> The tree has major problems. If the option is taken to preserve the tree, its condition could be improved with correct arboricultural work including, but not limited to: pruning, cabling, bracing, bolting, guying, spraying, mistletoe removal, vertical mulching, fertilization, etc. If the recommended actions are completed correctly, hazard can be reduced and the rating can be elevated to a 3. If no action is taken the tree is considered a liability and should be removed.

<u>Rating #3:</u> The tree is in fair condition. There are some minor structural or health problems that pose no immediate danger. When the recommended actions in an arborist report are completed correctly the defect(s) can be minimized or eliminated.

<u>Rating #4:</u> The tree is in good condition and there are no apparent problems that a Certified Arborist can see from a visual ground inspection. If potential structural or health problems are tended to at this stage future hazard can be reduced and more serious health problems can be averted.

<u>Rating #5</u>: No problems found from a visual ground inspection. Structurally, these trees have properly spaced branches and near perfect characteristics for the species. Highly rated trees are not common in natural or developed landscapes. No tree is ever perfect especially with the unpredictability of nature, but with this highest rating, the condition should be considered excellent.

Notes: Provide notable details about each tree which are factors considered in the determination of the tree rating including: (a) condition of root crown and/or roots; (b) condition of trunk; (c) condition of limbs and structure; (d) growth history and twig condition; (e) leaf appearance; and (f) dripline environment. Notes also indicate if the standard tree evaluation procedure was not followed (for example - why DBH may have been measured at a location other than the standard 54"). Additionally, notes will list any evaluation limiting factors such as debris at the base of a tree.

Development Restrictions/Actions	Recommended actions to increase health and longevity.
Development	Projected development impacts are based solely on distance relationships between tree
Impacts	location and grading. Field inspections and findings during the project at the time of grading and trenching can change relative impacts. Closely followed guidelines and requirements can
	result in a higher chance of survival, while requirements that are overlooked can result in a

dramatically lower chance of survival. Impacts are measured as follows:



Impact Term:	Long Term Result of Impact:
Negligible	Tree is unlikely to show any symptoms. Chance of survival post development is excellent. Impacts to the Protected Root Zone are less than 5%.
Minor	Tree is likely to show minor symptoms. Chance of survival post development is good. Impacts to the Protected Root Zone are less than 15% and species tolerance is good.
Moderate	Tree is likely to show moderate symptoms. Chance of survival post development is fair. Impacts to the Protected Root Zone are less than 35% and species tolerance is good or moderate.
Severe	Tree is likely to show moderate symptoms annually and a pattern of decline. Chance of long-term survival post development is low. Impacts to the Protected Root Zone are up to 50% and species tolerance is moderate to poor.
Critical	Tree is likely to show moderate to severe symptoms annually and a pattern of decline. Chance of long-term survival post development is negligible. Impacts to the Protected Root Zone are up to 80%.

Discussion

Trees need to be protected from normal construction practices if they are to remain healthy and viable on the site. Our recommendations are based on experience and the County ordinance requirements to enhance tree longevity. This requires their root zones remain intact and viable despite the use of heavy equipment to install foundations, driveways, underground utilities, and landscape irrigation systems. Simply walking and driving on soil can have serious consequences for tree health. Tree Protection measures should be incorporated into the site plans in order to protect the trees.

Root Structure

The majority of a tree's roots are contained in a radius from the main trunk outward approximately two to three times the canopy of the tree. These roots are located in the top 6" to 3' of soil. It is a common misconception that a tree underground resembles the canopy. The correct root structure of a tree is in the drawing below. All plants' roots need both water and air for survival. Poor canopy development or canopy decline in mature trees after development is often the result of inadequate root space and/or soil compaction.



The reality of where roots are generally located

Our native oak trees are easily damaged or killed by having the soil within the <u>Protected Root Zone</u> (PRZ) disturbed or compacted. All of the work initially performed around protected trees that will be saved should be done by people rather than by wheeled or track type tractors. Oaks are fragile giants that can take little change in soil grade, compaction, or warm season watering. Don't be fooled into believing that warm season watering has no adverse effects



Demmon Partners: 2450 Natomas Park Drive, City of Sacramento

on native oaks. Decline and eventual death can take as long as 5-20 years with poor care and inappropriate watering. Oaks can live hundreds of years if treated properly during construction, as well as later with proper pruning, and the appropriate landscape/irrigation design.

Arborist Classifications

There are different types of Arborists:

Tree Removal and/or Pruning Companies: These companies may be licensed by the State of California to do business, but they do not necessarily know anything about trees;

Arborists: Arborist is a broad term. It is intended to mean someone with specialized knowledge of trees but is often used to imply knowledge that is not there.

ISA Certified Arborist: An International Society of Arboriculture Certified Arborist is someone who has been trained and tested to have specialized knowledge of trees. You can look up certified arborists at the International Society of Arboriculture website: isa-arbor.org.

Consulting Arborist: An American Society of Consulting Arborists Registered Consulting Arborist is someone who has been trained and tested to have specialized knowledge of trees and trained and tested to provide high quality reports and documentation. You can look up registered consulting arborists at the American Society of Consulting Arborists website: asca-consultants.org

RECOMMENDATIONS: Summary of Tree Protection Measures

The Owner and/or Developer should ensure the project arborist's protection measures are incorporated into the site plans and followed. Tree specific protection measures will be developed when the final grading plans are produced.

- 1. The project arborist is required to inspect the tree protection fencing prior to grading and/or grubbing for compliance with the required protection zones.
- 2. Clearance pruning should include removal of all the lower foliage that may interfere with equipment PRIOR to having grading or other equipment on site. The Project Arborist should approve the extent of foliage elevation and oversee the pruning to be performed by a contractor who is an ISA Certified Arborist.
- Chemical Stress Treatments to be performed by a licensed pesticide applicator under the project arborist supervision should include a (1) tree growth regulator, such as Paclobutrazol; (2) preventative leaf fungicide; and (3) preventative insecticides for leaf feeding insects and boring insects unless otherwise directed by the project arborist.
- 4. Hardwood mulch is required inside the protection fencing (see protection detail). Mulch composition is to be from onsite materials, such as trees to be removed, or only as approved by the project arborist. Decorative bark, including Cedar and Redwood, do not qualify.
- 5. Any and all work to be performed inside the protected root zone fencing shall be supervised by the project arborist.



- 6. All stumps within the root zone of trees to be preserved shall be ground out using a stump router or left in place. No trunk within the root zone of other trees shall be removed using a backhoe or other piece of grading equipment.
- 7. Trenching inside the protected root zone shall be by a hydraulic or air spade, placing pipes underneath the roots, or boring deeper trenches underneath the roots.
- 8. The project arborist will monitor the site during (and after) construction to ensure protection measures are followed and make recommendations for care of the trees on site, as needed.

Follow all of the General Development Guidelines, Appendix 3, for all trees not identified as requiring special preservation measures in the summary and in Appendix 2.

Report Prepared by:

Nicole Harrison ISA Certified Arborist #WC-6500AM, TRAQ ASCA Registered Consulting Arborist #719

Appendix 1 – Tree Location Map and Protection Plan (TPP1.0) Appendix 2 – Tree Data – All Trees; List of Protected Trees Appendix 3 – General Development Guidelines Appendix 4 – Site Photographs Appendix 5 – Fee Waiver Application Support

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California Tree & Landscape Consulting, Inc.

1243 High Street Auburn, CA 95603

TREE PROTECTION GENERAL REQUIREMENTS

- 1. The project arborist for this project is California Tree & Landscape Consulting. The primary contact information is Nicole Harrison (530) 305-0165. The project arborist may continue to provide expertise and make additional recommendations during the construction process if and when additional impacts occur or tree response is poor. Monitoring and construction oversight by the project arborist is recommended for all projects and required when a final letter of assessment is required by the jurisdiction.
- 2. The project arborist should inspect the exclusionary root protection fencing installed by the contractors prior to any grading and/or grubbing for compliance with the recommended protection zones. Additionally, the project arborist shall inspect the fencing at the onset of each phase of construction. The root protection zone for trees is specified as the 'canopy radius' in Appendix 2 in the arborist report unless otherwise specified by the arborist. Note 'dripline' is not an acceptable location for installation of tree protection fencing.
- 3. The project arborist should directly supervise any clearance pruning, irrigation, fertilization, placement of mulch and/or chemical treatments. If clearance pruning is required, the Project Arborist should approve the extent of foliage elevation and oversee the pruning to be performed by a contractor who is an ISA Certified Arborist. Clearance pruning should include removal of all the lower foliage that may interfere with equipment PRIOR to having grading or other equipment on site.
- 4. No trunk within the root protection zone of any trees shall be removed using a backhoe or other piece of grading equipment.
- 5. Clearly designate an area on the site that is outside of the protection area of all trees where construction materials may be stored, and parking can take place. No materials or parking shall take place within the protection zones of any trees on or off the site.
- 6. Any and all work to be performed inside the protected root zone fencing, including all grading and utility trenching, shall be approved and/or supervised by the project arborist.
- 7. Trenching, if required, inside the protected root zone shall be approved and/or supervised by the project arborist and may be required to be performed by hand, by a hydraulic or air spade, or other method which will place pipes underneath the roots without damage to the roots.
- 8. The root protection zone for trees is specified as the 'canopy radius' in Appendix 2 in the arborist report unless otherwise specified by the arborist. Note 'dripline' is not an acceptable location for installation of tree protection fencing.



Sheet No. **TPP 1.1**

2450 Natomas Park Drive Sacramento, Sacramento County, CA

Project Number: 1194-00006

Date: 6/14/2021



California Tree & Landscape Consulting, Inc.

1243 High Street Auburn, CA 95603

TREE PROTECTION GENERAL REQUIREMENTS

- 1. The project arborist for this project is California Tree & Landscape Consulting. The primary contact information is Nicole Harrison (530) 305-0165. The project arborist may continue to provide expertise and make additional recommendations during the construction process if and when additional impacts occur or tree response is poor. Monitoring and construction oversight by the project arborist is recommended for all projects and required when a final letter of assessment is required by the jurisdiction.
- 2. The project arborist should inspect the exclusionary root protection fencing installed by the contractors prior to any grading and/or grubbing for compliance with the recommended protection zones. Additionally, the project arborist shall inspect the fencing at the onset of each phase of construction. The root protection zone for trees is specified as the 'canopy radius' in Appendix 2 in the arborist report unless otherwise specified by the arborist. Note 'dripline' is not an acceptable location for installation of tree protection fencing.
- 3. The project arborist should directly supervise any clearance pruning, irrigation, fertilization, placement of mulch and/or chemical treatments. If clearance pruning is required, the Project Arborist should approve the extent of foliage elevation and oversee the pruning to be performed by a contractor who is an ISA Certified Arborist. Clearance pruning should include removal of all the lower foliage that may interfere with equipment PRIOR to having grading or other equipment on site.
- 4. No trunk within the root protection zone of any trees shall be removed using a backhoe or other piece of grading equipment.
- 5. Clearly designate an area on the site that is outside of the protection area of all trees where construction materials may be stored, and parking can take place. No materials or parking shall take place within the protection zones of any trees on or off the site.
- 6. Any and all work to be performed inside the protected root zone fencing, including all grading and utility trenching, shall be approved and/or supervised by the project arborist.
- 7. Trenching, if required, inside the protected root zone shall be approved and/or supervised by the project arborist and may be required to be performed by hand, by a hydraulic or air spade, or other method which will place pipes underneath the roots without damage to the roots.
- 8. The root protection zone for trees is specified as the 'canopy radius' in Appendix 2 in the arborist report unless otherwise specified by the arborist. Note 'dripline' is not an acceptable location for installation of tree protection fencing.



Sheet No. TPP 1.2

2450 Natomas Park Drive Sacramento, Sacramento County, CA

Project Number: 1194-00006

Date: 6/14/2021



California Tree & Landscape Consulting, Inc.

1243 High Street Auburn, CA 95603

TREE PROTECTION GENERAL REQUIREMENTS

- 1. The project arborist for this project is California Tree & Landscape Consulting. The primary contact information is Nicole Harrison (530) 305-0165. The project arborist may continue to provide expertise and make additional recommendations during the construction process if and when additional impacts occur or tree response is poor. Monitoring and construction oversight by the project arborist is recommended for all projects and required when a final letter of assessment is required by the jurisdiction.
- 2. The project arborist should inspect the exclusionary root protection fencing installed by the contractors prior to any grading and/or grubbing for compliance with the recommended protection zones. Additionally, the project arborist shall inspect the fencing at the onset of each phase of construction. The root protection zone for trees is specified as the 'canopy radius' in Appendix 2 in the arborist report unless otherwise specified by the arborist. Note 'dripline' is not an acceptable location for installation of tree protection fencing.
- 3. The project arborist should directly supervise any clearance pruning, irrigation, fertilization, placement of mulch and/or chemical treatments. If clearance pruning is required, the Project Arborist should approve the extent of foliage elevation and oversee the pruning to be performed by a contractor who is an ISA Certified Arborist. Clearance pruning should include removal of all the lower foliage that may interfere with equipment PRIOR to having grading or other equipment on site.
- 4. No trunk within the root protection zone of any trees shall be removed using a backhoe or other piece of grading equipment.
- 5. Clearly designate an area on the site that is outside of the protection area of all trees where construction materials may be stored, and parking can take place. No materials or parking shall take place within the protection zones of any trees on or off the site.
- 6. Any and all work to be performed inside the protected root zone fencing, including all grading and utility trenching, shall be approved and/or supervised by the project arborist.
- 7. Trenching, if required, inside the protected root zone shall be approved and/or supervised by the project arborist and may be required to be performed by hand, by a hydraulic or air spade, or other method which will place pipes underneath the roots without damage to the roots.
- 8. The root protection zone for trees is specified as the 'canopy radius' in Appendix 2 in the arborist report unless otherwise specified by the arborist. Note 'dripline' is not an acceptable location for installation of tree protection fencing.



TPP 1.3

Project Number: 1194-00006

Date: 6/14/2021

APPENDIX 2 – TREE DATA

Protected Trees are shown in Bold

Tree	Off- Site	Common	Botanical	Multi-	Total	DLR	Condition	Protected Notable Characteristics	Development Status
1		Maple	Acer sp.		5	6	3 Fair - Minor Problems	No	Proposed for Removal
2		Maple	Acer sp.		4	5	3 Fair - Minor Problems	No	Proposed for Removal
3		Maple	Acer sp.		3	4	3 Fair - Minor Problems	No	Proposed for Removal
4		Maple	Acer sp.		2	3	3 Fair - Minor Problems	No	Proposed for Removal
5		Holly Oak	Quercus ilex		5	6	3 Fair - Minor Problems	No	Proposed for Removal
6		Holly Oak	Quercus ilex		8	8	3 Fair - Minor Problems	No	Proposed for Removal
7		Holly Oak	Quercus ilex		1	1	3 Fair - Minor Problems	No	Proposed for Removal
8		Maple	Acer sp.		5	5	3 Fair - Minor Problems	No	Proposed for Removal
9		Maple	Acer sp.		5	5	3 Fair - Minor Problems	No	Proposed for Removal
10		Maple	Acer sp.		5	5	3 Fair - Minor Problems	No	Proposed for Removal
11		Maple	Acer sp.		4	4	3 Fair - Minor Problems	No	Proposed for Removal
12		Flowering Ornamental Pear	Pyrus calleryana		5	5	3 Fair - Minor Problems	No	Proposed for Removal
13		Flowering Ornamental Pear	Pyrus calleryana		4	4	3 Fair - Minor Problems	No	Proposed for Removal
14		Flowering Ornamental Pear	Pyrus calleryana		4	4	3 Fair - Minor Problems	No	Proposed for Removal
15		Flowering Ornamental Pear	Pyrus calleryana		5	5	3 Fair - Minor Problems	No	Proposed for Removal



Demmon Partners: 24	450 Natomas	Park Drive,	City of Sacramento
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Tree	Off- Site	Common	Botanical	Multi-	Total	DLR	Condition	Protected	Notable Characteristics Development Status
16		Flowering Ornamental Pear	Pyrus calleryana		8	5	3 Fair - Minor Problems	No	Proposed for Removal
17		Flowering Ornamental Pear	Pyrus calleryana		8	5	3 Fair - Minor Problems	No	Proposed for Removal
18		Queen Palm	Syagrus romanzoffiana		3	4	3 Fair - Minor Problems	No	Proposed for Removal
19		Queen Palm	Syagrus romanzoffiana		4	4	3 Fair - Minor Problems	No	Proposed for Removal
20		Mediterranean Fan Palm	Chamaerops humilis		7	5	3 Fair - Minor Problems	No	Proposed for Removal
21		Mediterranean Fan Palm	Chamaerops humilis		6	4	3 Fair - Minor Problems	No	Proposed for Removal
22		Mediterranean Fan Palm	Chamaerops humilis		8	8	3 Fair - Minor Problems	No	Proposed for Removal
23		Mediterranean Fan Palm	Chamaerops humilis		7	6	3 Fair - Minor Problems	No	Proposed for Removal
24	Yes	Coast Redwood	Sequoia sempervirens		28	12	3 Fair - Minor Problems	Yes	Located apx. 10' east of property line.
25	Yes	Coast Redwood	Sequoia sempervirens		30	14	3 Fair - Minor Problems	Yes	Located apx. 10' east of property line.
26	Yes	Coast Redwood	Sequoia sempervirens		31	15	3 Fair - Minor Problems	Yes	Located apx. 10' east of property line.
27-32	Yes	Coast Redwood	Sequoia sempervirens		+26	14	3 Fair - Minor Problems	Yes	Not Measured -no access, east of property line.Possible Impacts, Review in the during development for minor changes in locations of infiltrat



Demmon Partners: 2450 Natomas Park Drive, City of Sacramento	
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Tree	Off- Site	Common	Botanical	Multi-	Total	DLR	Condition	Protected	Notable Characteristics	Development Status
2501		Red Oak	Quercus rubra		18	28	3 Fair - Minor Problems	No	One-sided south. Codominant at 10' with included bark. Closing wound on north side.	
2502		Red Oak	Quercus rubra		19	20	3 Fair - Minor Problems	No	One-sided east. Multiple codominant stems with inclusions.	
2503		Red Oak	Quercus rubra		14	18	3 Fair - Minor Problems	No	One-sided southwest. Multiple codominant stems with inclusions.	
2504		Red Oak	Quercus rubra		17		3 Fair - Minor Problems	No	Buttressing roots. Multiple codominant stems with inclusions starting at 8'.	
2505		Red Oak	Quercus rubra		12	21	3 Fair - Minor Problems	No	One-sided west. Multiple codominant stems with inclusions. Multiple 2-inch limb failures.	
2506		Red Oak	Quercus rubra		8	17	3 Fair - Minor Problems	No	One-sided west. Codominant at 6' with included bark. Second codominant stems with included bark at 7'. Multiple small limb failures.	
2507		Valley Oak	Quercus lobata		20	21	3 Fair - Minor Problems	Yes	DBH measured at 2'. Codominant at 2.5' with included bark. Second limb 6". One-sided south. Poor structure. Multiple limb failures.	
2508		Valley Oak	Quercus Iobata		20	18	3 Fair - Minor Problems	Yes	Codominant at 12' with included bark. One-sided west.	
2509		Valley Oak	Quercus Iobata		13	25	2 Major Structure or Health Problems	Yes	One-sided east. Strong lean east. Large branch failure, possibly from another tree.	



June	14,	20	21
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Tree	Off- Site	Common	Botanical	Multi-	Total	DLR	Condition	Protected	Notable Characteristics	Development Status
2510		Valley Oak	Quercus Iobata		18		3 Fair - Minor Problems	Yes	Codominant at 7' with included bark. Second codominant stems at 8' with included bark with 4-inch limb failure. Deadwood in canopy.	
2511		Valley Oak	Quercus Iobata		18	18	3 Fair - Minor Problems	Yes	Phototropic growth. Competing with neighboring trees.	
2512		Valley Oak	Quercus Iobata		18	30	3 Fair - Minor Problems	Yes	One-sided west. Codominant at 7'. Leans west.	
2513		Valley Oak	Quercus Iobata		22	35	2 Major Structure or Health Problems	Yes	Strong lean west. One-sided with codominant stems at 5' with included bark. Multiple clearance pruning cuts.	
2514		Valley Oak	Quercus Iobata		15	20	3 Fair - Minor Problems	Yes	DBH measured at 1 foot. Second limb 9". Codominant with included bark. One-sided west.	
2515		Valley Oak	Quercus Iobata		25	30	3 Fair - Minor Problems	Yes	Codominant at 15' with included bark.	
2516		Valley Oak	Quercus Iobata		11	20	3 Fair - Minor Problems	No	One-sided west. Suppressed by neighboring trees.	
2517		Valley Oak	Quercus Iobata		8	20	3 Fair - Minor Problems	No	One-sided west. Suppressed by neighboring trees. Small branch failures.	
2518		Valley Oak	Quercus Iobata		12	20	3 Fair - Minor Problems	Yes	One-sided east. Suppressed by neighboring trees.	
2519		Valley Oak	Quercus Iobata		25	25	3 Fair - Minor Problems	Yes	Codominant at 5' with included bark. Multiple codominant stems with inclusions up canopy.	
2520		Valley Oak	Quercus Iobata		25	25	3 Fair - Minor Problems	Yes	Codominant at 5' with included bark. One-sided east. Small limb deadwood.	
2521		Valley Oak	Quercus Iobata		25	18	3 Fair - Minor Problems	Yes	One-sided east. Suppressed by neighboring trees.	



Tree	Off- Site	Common	Botanical	Multi-	Total	DLR	Condition	Protected	Notable Characteristics	Development Status
2522		Valley Oak	Quercus Iobata		18	25	3 Fair - Minor Problems	Yes	One-sided/leaning east.	
2523		Valley Oak	Quercus Iobata		17	20	3 Fair - Minor Problems	Yes	Multiple codominant stems at 12' with included bark. Branches crossing. Poor structure.	
2524		Valley Oak	Quercus Iobata		12	20	3 Fair - Minor Problems	Yes	Suppressed by neighboring trees. Thin canopy. Epicormic growth.	
2525		Valley Oak	Quercus lobata		29	20	3 Fair - Minor Problems	Yes	DBH measured at 3.5'. Codominant at 4' with included bark. Multiple codominant stems with inclusions throughout canopy. One-sided west.	
2526		Valley Oak	Quercus Iobata		8	5	1 Extreme Structure or Health Problems	No	Multiple branch failures. Topping cuts.	
2527		Valley Oak	Quercus lobata		10	20	3 Fair - Minor Problems	No	One-sided southwest.	
2528		Valley Oak	Quercus lobata		22	20	3 Fair - Minor Problems	Yes	Most of canopy on east side, codominant at 15' with included bark. Multiple codominant stems with inclusions throughout canopy. Small limb failures.	
2529		Valley Oak	Quercus Iobata		19	17	3 Fair - Minor Problems	Yes	One-sided west. Codominant at 5' with included bark.	
2530		Valley Oak	Quercus Iobata		23	20	3 Fair - Minor Problems	Yes	Multiple codominant stems at 10' and up with included bark. Majority of canopy on east side.	
2531		Valley Oak	Quercus Iobata		35	15	2 Major Structure or Health Problems	Yes	Multiple limb failures and bark defects.	
2532		Valley Oak	Quercus Iobata		13	22	3 Fair - Minor Problems	Yes	One-sided east. Codominant at 15' with included bark.	



Demmon Partners: 2450 Natomas Park Drive, City of Sacramento

Tree	Off- Site	Common	Botanical	Multi-	Total	DLR	Condition	Protected	Notable Characteristics	Development Status
2534		Valley Oak	Quercus Iobata		17	15	3 Fair - Minor Problems	Yes	Codominant at 5' with included bark. Poor structure.	
2535		Valley Oak	Quercus		10	20	3 Fair - Minor Problems	No	One-sided east. Suppressed by	
			lobata						neighboring trees.	
2536		Valley Oak	Quercus		17	15	3 Fair - Minor Problems	Yes	Codominant at 15' with included bark.	
			lobata						Poor structure, growing into canopy of neighboring trees. Small limb limb deadwood	
2537		Valley Oak	Quercus		27	17	3 Fair - Minor Problems	Yes	DBH measured at 3'. Codominant at 3.5'	
			lobata						with included bark. One-sided west.	
2538		Valley Oak	Quercus		8	10	3 Fair - Minor Problems	No	One-sided east. Epicormic growth.	
			lobata							
2539		Valley Oak	Quercus		25	20	3 Fair - Minor Problems	Yes	Multiple codominant stems with	
			lobata						included bark. Poor structure.	
2540		Valley Oak	Quercus		13	20	3 Fair - Minor Problems	Yes	One-sided west.	
			lobata							
2541		Valley Oak	Quercus Iobata		19	15	3 Fair - Minor Problems	Yes		
2542		Sawleaf	Zelkova		22	20	3 Fair - Minor Problems	No	DBH measured at 3'. Codominant at 3.5'	
		Zelkova	serrata						with included bark. One-sided west with	
									branches 3' from ground.	
2543		Valley Oak	Quercus		9	10	3 Fair - Minor Problems	No	One-sided east.	
			lobata							
2544		Valley Oak	Quercus		7	15	3 Fair - Minor Problems	No	One-sided west. Suppressed by	
			lobata						neighboring trees.	
2545		Valley Oak	Quercus		16	20	3 Fair - Minor Problems	Yes	One-sided east. Suppressed by	
			lobata						neighboring trees.	
2546		Valley Oak	Quercus		26	18	3 Fair - Minor Problems	Yes	Codominant at 5' with included bark.	
			lobata						Crossing branches.	



Demmon Partners: 2450 Natomas Park Drive, City of Sacramento

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Tree	Off- Site	Common	Botanical	Multi-	Total	DLR	Condition	Protected	Notable Characteristics	Development Status
2547		Valley Oak	Quercus lobata		10	20	3 Fair - Minor Problems	No	Codominant at 5' with included bark. Poor structure.	
2548		Valley Oak	Quercus lobata		18	25	3 Fair - Minor Problems	Yes	One-sided west. Codominant at 10' with included bark, 4-6" branch failures.	
2549		Coast Live Oak	Quercus agrifolia		18	15	3 Fair - Minor Problems	Yes	One-sided west with correction at top of canopy. Mild trunk damage from minor vandalism.	
2550		Valley Oak	Quercus lobata		25	20	3 Fair - Minor Problems	Yes	Codominant at 4.5' with included bark. One-sided east.	
2551		Valley Oak	Quercus lobata		14	20	3 Fair - Minor Problems	Yes	Codominant at 1 foot. Second branch at 6". One-sided east.	
2552		Coast Live Oak	Quercus agrifolia		16	15	3 Fair - Minor Problems	Yes	Bark damage on north side. Codominant at 10 and 11' with included bark.	
2553		Fremont Cottonwood	Populus fremontii		11	20	2 Major Structure or Health Problems	No	Splits at 6". Second branch at 9". Multiple closing pruning cuts, epicormic growth. Poor structure. Leans east.	Proposed for Removal
2554		Fremont Cottonwood	Populus fremontii	25	25	35	2 Major Structure or Health Problems	Yes	Very large multi stem. Only able to measure one. Multiple large pruning cuts. Multiple large limb failures. Poor structure.	Proposed for Removal with Waiver due to uncorrectible structural defect
2555		Valley Oak	Quercus lobata		10	15	3 Fair - Minor Problems	No	Leans southwest. Suppressed by neighboring Cottonwood.	
2556		Fremont Cottonwood	Populus fremontii		46	25	1 Extreme Structure or Health Problems	Yes	Leans west. One-sided canopy, small limb failures high up in canopy.	Proposed for Removal with Waiver due to High Risk



Demmon Pa	rtners: 24	150 Natomas Park D	rive, City of Sacrame	nto						June 14, 2021
Tree	Off-	Common	Botanical	Multi-	Total	DLR	Condition	Protected	Notable Characteristics	Development Status
	Site									
2557	Yes	Coast Live Oak	Quercus agrifolia		27	20	2 Major Structure or Health Problems	Yes	Codominant at 10' with included bark. Multiple codominant stems up canopy. Bark damage on north and south sides.	Treat for Disease
2558		Coast Live Oak	Quercus agrifolia		16	15	3 Fair - Minor Problems	Yes	Codominant at 10' with included bark. Small branch deadwood.	Treat for Disease
2559	Yes	Coast Live Oak	Quercus agrifolia		24	22	3 Fair - Minor Problems	Yes	Multiple codominant stems, first one at 10' with included bark. Multiple closing pruning cuts, borer bark damage to lower trunk.	Treat for Disease
2560		Coast Live Oak	Quercus agrifolia		25	20	0 - Dead	Yes	Multiple codominant stems starting at 10' with included bark. Leaves are brown and dry. Tree is 90% dead, suspect SOD.	<i>Remove with Waiver due to Condition - Dead due to Disease</i>
2561		Coast Live Oak	Quercus agrifolia		23	25	0 - Dead	Yes	Multiple codominant stems starting at 10'. Leaves are brown and dry. Borer damage on bark. Tree is 90% dead, suspect SOD.	<i>Remove with Waiver due to Condition - Dead due to Disease</i>
2562		Coast Live Oak	Quercus agrifolia		19	15	2 Major Structure or Health Problems	Yes	Codominant at 8' with included bark. Leans southwest. Failure at top of canopy. Bug bark damage.	Remove with Waiver due to Condition - Diseased
2563		Coast Live Oak	Quercus agrifolia		21	20	2 Major Structure or Health Problems	Yes	Slight lean southwest. Bug bark damage.	Diseased - Treat or Remove
2564		Coast Live Oak	Quercus agrifolia		24	20	3 Fair - Minor Problems	Yes	Leans southwest.	Diseased - Treat
2565	Yes	Deodar Cedar	Cedrus deodara		32	25	3 Fair - Minor Problems	Yes	Slight lean southwest. Small branch deadwood.	
2566	Yes	Coast Redwood	Sequoia sempervirens		47	15	3 Fair - Minor Problems	Yes		



Tree	Off- Site	Common	Botanical	Multi-	Total	DLR	Condition	Protected	Notable Characteristics	Development Status
2567		Deodar Cedar	Cedrus deodara		26	15	3 Fair - Minor Problems	Yes		
2568- 39421		Valley Oak	Quercus Iobata		53	45	3 Fair - Minor Problems	Yes	8=inch branch failure in canopy southwest side. Large cavity on northeast side from large limb failure.	
2569		Deodar Cedar	Cedrus deodara		20	25	3 Fair - Minor Problems	No	Leans slightly west. Trunk flare is over utility entry/ supporting roots growing around manhole.	Proposed for Removal
2570		Holly Oak	Quercus ilex		8	15	3 Fair - Minor Problems	No	Leans southwest. One-sided canopy suppressed by neighboring tree.	
2571		Holly Oak	Quercus ilex		15	25	3 Fair - Minor Problems	No	One-sided west. Suppressed by neighboring trees.	
2572		Holly Oak	Quercus ilex		19	25	3 Fair - Minor Problems	No	Multiple codominant stems starting at 9'. Leans west. One-sided canopy suppressed by neighboring Redwoods.	
2573		Holly Oak	Quercus ilex		13	25	3 Fair - Minor Problems	No	Multiple codominant stems starting at 10'. Leans west. Suppressed by neighboring Redwoods.	
2574		Holly Oak	Quercus ilex		14	20	3 Fair - Minor Problems	No	2 foot closing trunk wound on north side. Leans west. One-sided canopy suppressed by neighboring Redwoods.	
2575		Holly Oak	Quercus ilex		18	25	3 Fair - Minor Problems	No	Multiple codominant stems starting at 10'. One-sided canopy west. Suppressed by neighboring Redwoods.	
2576		Red Oak	Quercus rubra		25	20	3 Fair - Minor Problems	Yes	Multiple codominant stems starting at 15'. Small limb failures.	



_										June 14, 202.
Tree	Off- Site	Common	Botanical	Multi-	Total	DLR	Condition	Protected	Notable Characteristics	Development Status
2577		Red Oak	Quercus rubra		17	20	3 Fair - Minor Problems	No	Codominant at 6' with included bark. Most of canopy on south side. Small limb failures.	
2578		Red Oak	Quercus rubra		13	17	3 Fair - Minor Problems	No	Multiple codominant stems starting at 10'. One-sided north.	Impacted, move storm drain 8-10-2021
2579		Red Oak	Quercus rubra		21	25	3 Fair - Minor Problems	No	Multiple codominant stems starting at 10'. Small limb failures.	Preserve for Mitigation Credit
2580		Red Oak	Quercus rubra		17	20	3 Fair - Minor Problems	No	Multiple codominant stems with including bark starting at 10'.	Preserve for Mitigation Credit
2581		Red Oak	Quercus rubra		25	25	3 Fair - Minor Problems	Yes	Multiple codominant stems starting at 10'.	
2582		Red Oak	Quercus rubra		27	25	3 Fair - Minor Problems	Yes	Multiple codominant stems starting at 10'. Small limb failures.	
2583		Red Oak	Quercus rubra		11	17	3 Fair - Minor Problems	No	Codominant at 6' with multiple codominant stems at 7 and 8'. One-sided north.	Impacted, move storm drain
2584		Red Oak	Quercus rubra		21	20	3 Fair - Minor Problems	No	Multiple codominant stems starting at 10'.	Preserve for Mitigation Credit
2585		Red Oak	Quercus rubra		25	17	3 Fair - Minor Problems	Yes	Small limb failure south and west sides. Most of canopy on north side. Multiple codominant starting at 6'.	Impacted, move storm drain
2586		Red Oak	Quercus rubra		22	20	3 Fair - Minor Problems	No	Multiple codominant starting at 6'. One- sided canopy southwest.	Preserve for Mitigation Credit
2587		Flowering Ornamental Pear	Pyrus calleryana		13	12	3 Fair - Minor Problems	No	Codominant at 6' with included bark. One-sided north. Small limb failures.	Proposed for Removal
2588		Flowering Ornamental Pear	Pyrus calleryana		17	15	3 Fair - Minor Problems	No	Multiple codominant stems at 6'.	Proposed for Removal



Tree Off- Site	Common	Botanical	Multi-	Total	DLR	Condition	Protected	Notable Characteristics	Development Status
2589	Red Oak	Quercus rubra		19	15	3 Fair - Minor Problems	No	Codominant at 12'. Multiple small limb failures. Borer damage.	Preserve for Mitigation Credit
2590	Red Oak	Quercus rubra		22	25	3 Fair - Minor Problems	No	Multiple codominant stems starting at 10'. Small limb failures.	
2591	Red Oak	Quercus rubra		11	20	3 Fair - Minor Problems	No	Codominant at 6' with included bark. Uneven canopy. Small branch failures on north side with woodpecker damage. One-sided south.	
2592	Flowering Ornamental Pear	Pyrus calleryana		9	6	2 Major Structure or Health Problems	No	In parking lot island. Leans east. Multiple cankers throughout trunk.	Proposed for Removal
2593	Canary Island Pine	Pinus canariensis		28	10	3 Fair - Minor Problems	Yes	Surfacing girdling roots.	Proposed for Removal
2594	Canary Island Pine	Pinus canariensis		20	15	3 Fair - Minor Problems	No	Suppressed by surrounding trees.	Proposed for Removal
2595	Canary Island Pine	Pinus canariensis		31	15	3 Fair - Minor Problems	Yes	Suppressed by neighboring trees.	Proposed for Removal
2596	Canary Island Pine	Pinus canariensis		28	17	3 Fair - Minor Problems	Yes	Suppressed by surrounding trees.	Proposed for Removal
597	Red Oak	Quercus rubra		15	17	3 Fair - Minor Problems	No	One-sided north. Multiple codominant stems starting at 8'.	Impacted, move storm drain
2598	Red Oak	Quercus rubra		15	20	3 Fair - Minor Problems	No	One-sided north. Suppressed by neighboring trees.	Impacted, move storm drain
599	Flowering Ornamental Pear	Pyrus calleryana		12	15	3 Fair - Minor Problems	No	Multiple codominant starting at 7'.	Proposed for Removal
2600	Flowering Ornamental Pear	Pyrus calleryana		9	12	3 Fair - Minor Problems	No	Codominant at 6' with included bark.	Proposed for Removal



Tree	Off- Site	Common	Botanical	Multi-	Total	DLR	Condition	Protected	Notable Characteristics	Development Status
2601		Flowering Ornamental Pear	Pyrus calleryana		10	10	3 Fair - Minor Problems	No	Multiple codominant stems starting at 6'. Small branch failures. Surfacing roots, mistletoe.	Proposed for Removal
2602		Flowering Ornamental Pear	Pyrus calleryana		12	13	3 Fair - Minor Problems	No	Multiple codominant stems starting at 10'. Small pruning cuts on north side.	Proposed for Removal
2603		Flowering Ornamental Pear	Pyrus calleryana		13	12	3 Fair - Minor Problems	No	Multiple codominant stems starting at 6'. Multiple pruning cuts.	Proposed for Removal
2604		Flowering Ornamental Pear	Pyrus calleryana		11	10	3 Fair - Minor Problems	No	Multiple codominant stems starting at 6'. Multiple pruning cuts.	Proposed for Removal
2605		Flowering Ornamental Pear	Pyrus calleryana		8	8	3 Fair - Minor Problems	No	Codominant at 10' with included bark.	Proposed for Removal
2606		Flowering Ornamental Pear	Pyrus calleryana		11	10	3 Fair - Minor Problems	No	Multiple codominant stems starting at 7'. Multiple pruning cuts. One-sided canopy west.	Proposed for Removal
2607		Flowering Ornamental Pear	Pyrus calleryana		10	8	3 Fair - Minor Problems	No	Multiple codominant stems starting at 7'. Multiple pruning cuts.	Proposed for Removal
2608		Flowering Ornamental Pear	Pyrus calleryana		12	15	3 Fair - Minor Problems	No	Multiple codominant stems starting at 9'. Multiple pruning cuts.	Proposed for Removal
2609		Flowering Ornamental Pear	Pyrus calleryana		11	12	3 Fair - Minor Problems	No	Parking lot tree. Multiple codominant stems with included bark starting at 9'.	Proposed for Removal
2610		Flowering Ornamental Pear	Pyrus calleryana		10	12	3 Fair - Minor Problems	No	Parking lot tree. Multiple codominant stems starting at 9'.	Proposed for Removal
2611		Flowering Ornamental Pear	Pyrus calleryana		9	10	3 Fair - Minor Problems	No	Parking lot tree. Multiple codominant stems starting at 6'.	Proposed for Removal



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Tree	Off- Site	Common	Botanical	Multi-	Total	DLR	Condition	Protected	Notable Characteristics	Development Status
2612		Flowering Ornamental Pear	Pyrus calleryana		13	15	3 Fair - Minor Problems	No	Parking lot tree. Multiple codominant stems starting at 9'.	Proposed for Removal
2613		Flowering Ornamental Pear	Pyrus calleryana		19	20	3 Fair - Minor Problems	No	Multiple codominant stems with included bark starting at 6'. 5-inch branch failures high up in canopy.	
2614		Flowering Ornamental Pear	Pyrus calleryana		16	22	3 Fair - Minor Problems	No	Multiple codominant stems with included bark starting at 6'. One-sided canopy southwest.	
2615		Flowering Ornamental Pear	Pyrus calleryana		12	17	3 Fair - Minor Problems	No	Multiple codominant stems starting at 10'.	
2616		Flowering Ornamental Pear	Pyrus calleryana		18	20	3 Fair - Minor Problems	No	Multiple codominant stems starting at 10'. One-sided canopy west.	
2617		Flowering Ornamental Pear	Pyrus calleryana		18	17	3 Fair - Minor Problems	No	Multiple codominant stems starting at 6'. One-sided canopy west.	
2618		Flowering Ornamental Pear	Pyrus calleryana		16	17	3 Fair - Minor Problems	No	Codominant starting at 6'. One-sided canopy west.	
2619		Flowering Ornamental Pear	Pyrus calleryana		15	17	3 Fair - Minor Problems	No	Multiple codominant stems starting at 7'. One-sided canopy west. Suppressed by neighboring trees.	
2620		Flowering Ornamental Pear	Pyrus calleryana		12	15	3 Fair - Minor Problems	No	Multiple codominant stems starting at 8'. One-sided canopy west. Suppressed by neighboring trees.	
2621		Flowering Ornamental Pear	Pyrus calleryana		22	20	3 Fair - Minor Problems	No	Multiple codominant stems starting at 10'. One-sided canopy west. Multiple small to medium branch failures.	


Tree	Off-	Common	Botanical	Multi-	Total	DLR	Condition	Protected	Notable Characteristics	Development Status
	Site									
2622		Flowering Ornamental Pear	Pyrus calleryana		11	12	3 Fair - Minor Problems	No	Multiple codominant stems starting at 5'.	Proposed for Removal
2623		Flowering Ornamental Pear	Pyrus calleryana		11	15	3 Fair - Minor Problems	No	Multiple codominant stems starting at 5'. One-sided canopy northeast.	Proposed for Removal
2624		Flowering Ornamental Pear	Pyrus calleryana		15	15	3 Fair - Minor Problems	No	Multiple codominant stems starting at 5'. Epicormic tree.	Proposed for Removal

LIST OF PROTECTED TREES

Tree	Off- Site	Species Common Name	Botanical Name	Multi- Stem Dia.	Total DSH	DLR	Condition	Notable Characteristics	Development Status
24	Yes	Coast Redwood	Sequoia sempervirens		28	12	3 Fair - Minor Problems	Located apx. 10' east of property line.	Preserved (When all arborist recommendations are followed)
25	Yes	Coast Redwood	Sequoia sempervirens		30	14	3 Fair - Minor Problems	Located apx. 10' east of property line.	Preserved (When all arborist recommendations are followed)
26	Yes	Coast Redwood	Sequoia sempervirens		31	15	3 Fair - Minor Problems	Located apx. 10' east of property line.	Preserved (When all arborist recommendations are followed)
27	Yes	Coast Redwood	Sequoia sempervirens		26	14	3 Fair - Minor Problems	Located apx. 10' east of property line.	Preserved (When all arborist recommendations are followed)
2507		Valley Oak	Quercus Iobata		20	21	3 Fair - Minor Problems	DBH measured at 2'. Codominant at 2.5' with included bark. Second limb 6". One-sided south. Poor structure. Multiple limb failures.	Preserved
2508		Valley Oak	Quercus Iobata		20	18	3 Fair - Minor Problems	Codominant at 12' with included bark. One- sided west.	Preserved



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Tree	Off- Site	Species Common Name	Botanical Name	Multi- Stem Dia.	Total DSH	DLR	Condition	Notable Characteristics	Development Status
2509		Valley Oak	Quercus lobata		13	25	2 Major Structure or Health Problems	One-sided east. Strong lean east. Large branch failure, possibly from another tree.	Preserved
2510		Valley Oak	Quercus Iobata		18		3 Fair - Minor Problems	Codominant at 7' with included bark. Second codominant stems at 8' with included bark with 4-inch limb failure. Deadwood in canopy.	Preserved
2511		Valley Oak	Quercus Iobata		18	18	3 Fair - Minor Problems	Phototropic growth. Competing with neighboring trees.	Preserved
2512		Valley Oak	Quercus Iobata		18	30	3 Fair - Minor Problems	One-sided west. Codominant at 7'. Leans west.	Preserved
2513		Valley Oak	Quercus Iobata		22	35	2 Major Structure or Health Problems	Strong lean west. One-sided with codominant stems at 5' with included bark. Multiple clearance pruning cuts.	Preserved
2514		Valley Oak	Quercus Iobata		15	20	3 Fair - Minor Problems	DBH measured at 1 foot. Second limb 9". Codominant with included bark. One-sided west.	Preserved
2515		Valley Oak	Quercus lobata		25	30	3 Fair - Minor Problems	Codominant at 15' with included bark.	Preserved
2518		Valley Oak	Quercus lobata		12	20	3 Fair - Minor Problems	One-sided east. Suppressed by neighboring trees.	Preserved
2519		Valley Oak	Quercus Iobata		25	25	3 Fair - Minor Problems	Codominant at 5' with included bark. Multiple codominant stems with inclusions up canopy.	Preserved
2520		Valley Oak	Quercus Iobata		25	25	3 Fair - Minor Problems	Codominant at 5' with included bark. One- sided east. Small limb deadwood.	Preserved (When all arborist recommendations are followed)
2521		Valley Oak	Quercus lobata		25	18	3 Fair - Minor Problems	One-sided east. Suppressed by neighboring trees.	Preserved (When all arborist recommendations are followed)



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Tree	Off- Site	Species Common Name	Botanical Name	Multi- Stem Dia.	Total DSH	DLR	Condition	Notable Characteristics	Development Status
2522		Valley Oak	Quercus Iobata		18	25	3 Fair - Minor Problems	One-sided/leaning east.	Preserved (When all arborist recommendations are followed)
2523		Valley Oak	Quercus Iobata		17	20	3 Fair - Minor Problems	Multiple codominant stems at 12' with included bark. Branches crossing. Poor structure.	Preserved (When all arborist recommendations are followed)
2524		Valley Oak	Quercus Iobata		12	20	3 Fair - Minor Problems	Suppressed by neighboring trees. Thin canopy. Epicormic growth.	Preserved
2525		Valley Oak	Quercus Iobata		29	20	3 Fair - Minor Problems	DBH measured at 3.5'. Codominant at 4' with included bark. Multiple codominant stems with inclusions throughout canopy. One-sided west.	Preserved
2528		Valley Oak	Quercus Iobata		22	20	3 Fair - Minor Problems	Most of canopy on east side, codominant at 15' with included bark. Multiple codominant stems with inclusions throughout canopy. Small limb failures.	Preserved (When all arborist recommendations are followed)
2529		Valley Oak	Quercus Iobata		19	17	3 Fair - Minor Problems	One-sided west. Codominant at 5' with included bark.	Preserved
2530		Valley Oak	Quercus Iobata		23	20	3 Fair - Minor Problems	Multiple codominant stems at 10' and up with included bark. Majority of canopy on east side.	Preserved
2531		Valley Oak	Quercus Iobata		35	15	2 Major Structure or Health Problems	Multiple limb failures and bark defects.	Preserved
2532		Valley Oak	Quercus Iobata		13	22	3 Fair - Minor Problems	One-sided east. Codominant at 15' with included bark.	Preserved (When all arborist recommendations are followed)
2534		Valley Oak	Quercus lobata		17	15	3 Fair - Minor Problems	Codominant at 5' with included bark. Poor structure.	Preserved (When all arborist recommendations are followed)



Development Status Tree Off-Botanical Multi-Total DLR Condition Notable Characteristics Species DSH Site Common Name Stem Name Dia. 2536 Valley Oak Quercus 17 15 3 Fair - Minor Problems Codominant at 15' with included bark. Poor Preserved (When all arborist recommendations are followed) lobata structure, growing into canopy of neighboring trees. Small limb limb deadwood. 2537 Valley Oak Quercus 27 17 3 Fair - Minor Problems DBH measured at 3'. Codominant at 3.5' with Preserved lobata included bark. One-sided west. Preserved (When all arborist 2539 Valley Oak Quercus 25 20 3 Fair - Minor Problems Multiple codominant stems with included lobata bark. Poor structure. recommendations are followed) Valley Oak 3 Fair - Minor Problems 2540 Quercus 13 20 One-sided west. Preserved lobata Preserved (When all arborist Valley Oak 15 2541 Quercus 19 3 Fair - Minor Problems lobata recommendations are followed) 2545 Valley Oak Quercus 16 20 3 Fair - Minor Problems One-sided east. Suppressed by neighboring Preserved lobata trees. 2546 Valley Oak Quercus 26 18 3 Fair - Minor Problems Codominant at 5' with included bark. Crossing Preserved lobata branches. 25 3 Fair - Minor Problems 2548 Valley Oak Quercus 18 One-sided west. Codominant at 10' with Preserved included bark, 4-6" branch failures. lobata One-sided west with correction at top of 2549 Coast Live Quercus 18 15 3 Fair - Minor Problems Preserved agrifolia canopy. Mild trunk damage from minor Oak vandalism. 2550 Codominant at 4.5' with included bark. One-Quercus 25 20 3 Fair - Minor Problems Preserved Valley Oak lobata sided east. Valley Oak Codominant at 1 foot. Second branch at 6". 2551 Quercus 14 20 3 Fair - Minor Problems Preserved One-sided east. lobata 3 Fair - Minor Problems Bark damage on north side. Codominant at 10 2552 Coast Live Quercus 16 15 Preserved agrifolia Oak and 11' with included bark.



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June 14, 2021

Demmon	Partners: 2	450 Natomas Park	< Drive, City of S	Sacramento					June 14, 202
Tree	Off- Site	Species Common Name	Botanical Name	Multi- Stem Dia.	Total DSH	DLR	Condition	Notable Characteristics	Development Status
2554		Fremont Cottonwood	Populus fremontii	25	25	35	2 Major Structure or Health Problems	Very large multi stem. Only able to measure one. Multiple large pruning cuts. Multiple large limb failures. Poor structure.	Proposed for Removal with Waiver due to uncorrectible structural defect
2556		Fremont Cottonwood	Populus fremontii		46	25	1 Extreme Structure or Health Problems	Leans west. One-sided canopy, small limb failures high up in canopy.	Proposed for Removal with Waiver due to High Risk
2557	Yes	Coast Live Oak	Quercus agrifolia		27	20	2 Major Structure or Health Problems	Codominant at 10' with included bark. Multiple codominant stems up canopy. Bark damage on north and south sides.	Treat for Disease
2558		Coast Live Oak	Quercus agrifolia		16	15	3 Fair - Minor Problems	Codominant at 10' with included bark. Small branch deadwood.	Treat for Disease
2559	Yes	Coast Live Oak	Quercus agrifolia		24	22	3 Fair - Minor Problems	Multiple codominant stems, first one at 10' with included bark. Multiple closing pruning cuts, borer bark damage to lower trunk.	Treat for Disease
2560		Coast Live Oak	Quercus agrifolia		25	20	0 - Dead	Multiple codominant stems starting at 10' with included bark. Leaves are brown and dry. Tree is 90% dead, suspect SOD.	Remove with Waiver due to Condition - Dead due to Disease
2561		Coast Live Oak	Quercus agrifolia		23	25	0 - Dead	Multiple codominant stems starting at 10'. Leaves are brown and dry. Borer damage on bark. Tree is 90% dead, suspect SOD.	Remove with Waiver due to Condition - Dead due to Disease
2562		Coast Live Oak	Quercus agrifolia		19	15	2 Major Structure or Health Problems	Codominant at 8' with included bark. Leans southwest. Failure at top of canopy. Bug bark damage.	Remove with Waiver due to Condition - Diseased



Tree	Off- Site	Species Common	Botanical Name	Multi- Stem	Total DSH	DLR	Condition	Notable Characteristics	Development Status
2563		Coast Live Oak	Quercus agrifolia	Dia.	21	20	2 Major Structure or Health Problems	Slight lean southwest. Bug bark damage.	Diseased - Treat or Remove
2564		Coast Live Oak	Quercus agrifolia		24	20	3 Fair - Minor Problems	Leans southwest.	Diseased - Treat
2565	Yes	Deodar Cedar	Cedrus deodara		32	25	3 Fair - Minor Problems	Slight lean southwest. Small branch deadwood.	Preserved
2566	Yes	Coast Redwood	Sequoia sempervirens		47	15	3 Fair - Minor Problems		Preserved
2567		Deodar Cedar	Cedrus deodara		26	15	3 Fair - Minor Problems		Preserved (When all arborist recommendations are followed)
2568- 39421		Valley Oak	Quercus Iobata		53	45	3 Fair - Minor Problems	8=inch branch failure in canopy southwest side. Large cavity on northeast side from large limb failure.	Preserved
2576		Red Oak	Quercus rubra		25	20	3 Fair - Minor Problems	Multiple codominant stems starting at 15'. Small limb failures.	Impacted, move storm drain
2581		Red Oak	Quercus rubra		25	25	3 Fair - Minor Problems	Multiple codominant stems starting at 10'.	Preserved
2582		Red Oak	Quercus rubra		27	25	3 Fair - Minor Problems	Multiple codominant stems starting at 10'. Small limb failures.	Preserved
2585		Red Oak	Quercus rubra		25	17	3 Fair - Minor Problems	Small limb failure south and west sides. Most of canopy on north side. Multiple codominant starting at 6'.	Impacted, move storm drain
2593		Canary Island Pine	Pinus canariensis		28	10	3 Fair - Minor Problems	Surfacing girdling roots.	Proposed for Removal
2595		Canary Island Pine	Pinus canariensis		31	15	3 Fair - Minor Problems	Suppressed by neighboring trees.	Proposed for Removal
2596		Canary Island Pine	Pinus canariensis		28	17	3 Fair - Minor Problems	Suppressed by surrounding trees.	Proposed for Removal



APPENDIX 3 - GENERAL PRACTICES FOR TREE PROTECTION

Definitions

<u>Root zone</u>: The roots of trees grow fairly close to the surface of the soil, and spread out in a radial direction from the trunk of tree. A general rule of thumb is that they spread 2 to 3 times the radius of the canopy, or 1 to 1 ½ times the height of the tree. It is generally accepted that disturbance to root zones should be kept as far as possible from the trunk of a tree.

<u>Inner Bark</u>: The bark on large valley oaks and coast live oaks is quite thick, usually 1" to 2". If the bark is knocked off a tree, the inner bark, or cambial region, is exposed or removed. The cambial zone is the area of tissue responsible for adding new layers to the tree each year, so by removing it, the tree can only grow new tissue from the edges of the wound. In addition, the wood of the tree is exposed to decay fungi, so the trunk present at the time of the injury becomes susceptible to decay. Tree protection measures require that no activities occur which can knock the bark off the trees.

Methods Used in Tree Protection:

No matter how detailed Tree Protection Measures are in the initial Arborist Report, they will not accomplish their stated purpose unless they are applied to individual trees and a Project Arborist is hired to oversee the construction. The Project Arborist should have the ability to enforce the Protection Measures. The Project Arborist should be hired as soon as possible to assist in design and to become familiar with the project. He must be able to read and understand the project drawings and interpret the specifications. He should also have the ability to cooperate with the contractor, incorporating the contractor's ideas on how to accomplish the protection measures, wherever possible. It is advisable for the Project Arborist to be present at the Pre-Bid tour of the site, to answer questions the contractors may have about Tree Protection Measures. This also lets the contractors know how important tree preservation is to the developer.

<u>Root Protection Zone (RPZ)</u>: Since in most construction projects it is not possible to protect the entire root zone of a tree, a Root Protection Zone is established for each tree to be preserved. The minimum Root Protection Zone is the area underneath the tree's canopy (out to the dripline, or edge of the canopy), plus 1'. The Project Arborist must approve work within the RPZ.

<u>Irrigate, Fertilize, Mulch</u>: Prior to grading on the site near any tree, the area within the Tree Protection fence should be fertilized with 4 pounds of nitrogen per 1000 square', and the fertilizer irrigated in. The irrigation should percolate at least 24" into the soil. This should be done no less than 2 weeks prior to grading or other root disturbing activities. After irrigating, cover the RPZ with at least 12" of leaf and twig mulch. Such mulch can be obtained from chipping or grinding the limbs of any trees removed on the site. Acceptable mulches can be obtained from nurseries or other commercial sources. Fibrous or shredded redwood or cedar bark mulch shall not be used anywhere on site.

<u>Fence</u>: Fence around the Root Protection Zone and restrict activity therein to prevent soil compaction by vehicles, foot traffic or material storage. The fenced area shall be off limits to all construction equipment, unless there is express written notification provided by the Project Arborist, and impacts are discussed and mitigated prior to work commencing.

No storage or cleaning of equipment or materials, or parking of any equipment can take place within the fenced off area, known as the RPZ.

The fence should be highly visible, and stout enough to keep vehicles and other equipment out. I recommend the fence be made of orange plastic protective fencing, kept in place by t-posts set no farther apart than 6'.

In areas of intense impact, a 6' chain link fence is preferred.

In areas with many trees, the RPZ can be fenced as one unit, rather than separately for each tree.



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Where tree trunks are within 3' of the construction area, place 2" by 4" boards vertically against the tree trunks, even if fenced off. Hold the boards in place with wire. Do not nail them directly to the tree. The purpose of the boards is to protect the trunk, should any equipment stray into the RPZ.

<u>Elevate Foliage</u>: Where indicated, remove lower foliage from a tree to prevent limb breakage by equipment. Low foliage can usually be removed without harming the tree, unless more than 25% of the foliage is removed. Branches need to be removed at the anatomically correct location in order to prevent decay organisms from entering the trunk. For this reason, a contractor who is an ISA Certified Arborist should perform all pruning on protected trees.⁸

<u>Expose and Cut Roots</u>: Breaking roots with a backhoe, or crushing them with a grader, causes significant injury, which may subject the roots to decay. Ripping roots may cause them to splinter toward the base of the tree, creating much more injury than a clean cut would make. At any location where the root zone of a tree will be impacted by a trench or a cut (including a cut required for a fill and compaction), the roots shall be exposed with either a backhoe digging radially to the trunk, by hand digging, or by a hydraulic air spade, and then cut cleanly with a sharp instrument, such as chainsaw with a carbide chain. Once the roots are severed, the area behind the cut should be moistened and mulched. A root protection fence should also be erected to protect the remaining roots, if it is not already in place. Further grading or backhoe work required outside the established RPZ can then continue without further protection measures.

<u>Protect Roots in Deeper Trenches:</u> The location of utilities on the site can be very detrimental to trees. Design the project to use as few trenches as possible, and to keep them away from the major trees to be protected. Wherever possible, in areas where trenches will be very deep, consider boring under the roots of the trees, rather than digging the trench through the roots. This technique can be quite useful for utility trenches and pipelines.

<u>Protect Roots in Small Trenches:</u> After all construction is complete on a site, it is not unusual for the landscape contractor to come in and sever a large number of "preserved" roots during the installation of irrigation systems. The Project Arborist must therefore approve the landscape and irrigation plans. The irrigation system needs to be designed so the main lines are located outside the root zone of major trees, and the secondary lines are either laid on the surface (drip systems), or carefully dug with a hydraulic or air spade, and the flexible pipe fed underneath the major roots.

Design the irrigation system so it can slowly apply water (no more than $\frac{1}{2}$ " to $\frac{1}{2}$ " of water per hour) over a longer period of time. This allows deep soaking of root zones. The system also needs to accommodate infrequent irrigation settings of once or twice a month, rather than several times a week.

Monitoring Tree Health During and After Construction: The Project Arborist should visit the site at least twice a month during construction to be certain the tree protection measures are being followed, to monitor the health of impacted trees, and make recommendations as to irrigation or other needs. After construction is complete, the arborist should monitor the site monthly for one year and make recommendations for care where needed. If longer term monitoring is required, the arborist should report this to the developer and the planning agency overseeing the project.

⁸ International Society of Arboriculture (ISA), maintains a program of Certifying individuals. Each Certified Arborist has a number and must maintain continuing education credits to remain Certified.



Appendix 4 – Site Photographs



Historical Google Street View. Looking West at grove of valley oak along the west property line.



Photo by Nicole Harrison, June 15, 2021. Looking approximately North at the grove of valley oak along the west property line. Some of these trees are in close proximity to existing infrastructure and will require arborist supervision during development to prevent and /or evaluate root damage.





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Historical Google Street Views. Looking South. Note Offsite Coast Redwood along the east property line.

Photo by Nicole Harrison, June 16, 2021. Looking approximately North at the Holly oak in a planter behind the curb along the east property line. Most of the offsite Coast Redwood trees are protected by the retention of these trees. Removal of these trees and installation of the infiltration system should require arborist supervision to prevent and/or evaluate root damage to the off site trees.







Historical Google Street Views. Looking West at City Tree 39421

Photo by Nicole Harrison, April 9, 2021. Looking east at the canopy of City tree 39421 that encroaches into the development area. Some pruning may be required for clearance. An initial assessment indicates it will be less than 5% of the canopy and (3) pruning wounds approximately 6" diameter may be required.





Demmon Partners: 2450 Natomas Park Drive, City of Sacramento



Photos by Nicole Harrison. Above April 9, 2021. The walking path that roughly follows the west side of the property from Natomas Park Drive to West El Camino has several mature coast live oak in poor health. All of these trees are diseased and may die and require removal within the next year or two.



Tree 2562 with evidence of Hypoxylon, a secondary fungus associated with Sudden Oak Death (Phytophthora Ramorum)

Recently dead from disease

Tree 2557, showing classic symptoms of disease and root failure, upper crown thinning.



Appenidix 6 – Fee Waiver

2554	Fremont Cottonwood	Populus fremontii	25 Multi- bark b	2 Major Structure or Health Problems stem structu	Proposed for Removal with Waiver due to uncorrectable structural defect ure with included ms	
			Broker	n branches ł y above the	nanging in the walking path	
2556	Fremont Cottonwood	Populus fremontii	46	1 Extreme Structure or Health Problems	Proposed for Removal with Waiver due to High Risk	See Attached Tree Risk Assessment form
2560	Coast Live Oak	Quercus agrifolia	25	0 - Dead	Remove with Waiver due to Condition - Dead/Diseased	Tree is Dead



Demmo	n Partners: 24	50 Natomas	Park D	rive, City of Sa	acramento	June 14, 2021
2561	Coast Live Oak	Quercus agrifolia	23	0 - Dead	Remove with Waiver due to Condition – Dead/Diseased	<image/>
2562	Coast Live Oak	Quercus agrifolia	19	2 Major Structure or	Remove with Waiver due to	
	-	, - , -		Health Problems	Condition - Diseased	Tree is Dying



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This datasheet was produced by the International Society of Arboriculture (ISA) and is intended for use by Tree Risk Assessment Qualified (TRAQ) arborists - 2013

Page 2 of 2



Shows Lean toward schood yard

Appendix B Scanned with CamScanner



Two Codominant stems could fail onto school Scanned with CamScanner



Old Failures and rams head connection

Appendix B Scanned with CamScanner



865 Cotting Lane, Suite A Vacaville, California 95688 (707) 447-4025, fax 447-4143



8798 Airport Road Redding, California 96002 (530) 222-0832, fax 222-1611

KC ENGINEERING COMPANY A SUBSIDIARY OF MATERIALS TESTING, INC.

> Project No. VV3853 8 June 2015

Mr. Charlie Demmon Demmon Partners 1451 River Park Drive, Suite 121 Sacramento, CA 95815

Subject:

Proposed Natomas Park Drive Apartments Natomas Park Drive & Garden Highway Sacramento, California GEOTECHNICAL EXPLORATION REPORT

Dear Mr. Demmon:

In accordance with your authorization, **KC ENGINEERING COMPANY** has explored the geotechnical conditions of the surface and subsurface soils at the subject site of the proposed multi-family apartment project to be located on Natomas Park Drive in Sacramento, California.

The accompanying report presents our conclusions and recommendations based on our exploration. Our findings indicate that the proposed multi-family apartment project is geotechnically feasible for construction on the subject site provided the recommendations of this report are carefully followed and are incorporated into the project plans and specifications.

Should you have any questions relating the contents of this letter or require additional information, please contact our office at your convenience.

Reviewed GE 2585 EXP. 6-30-David V. Cymanski, G.E. **Principal Engineer**

Copies: 1 email to Client, 3 mail

Respectfully Submitted, KC ENGINEERING CO. Eric S. Smith, P.E. Project Engineer

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GEOTECHNICAL EXPLORATION

Purpose and Scope

The purpose of the geotechnical exploration for the proposed multi-family apartment project in Sacramento, California was to determine the surface and subsurface soil conditions at the subject site. Based on the results of the exploration, geotechnical criteria were established for the grading of the site, the design of foundations, pavement sections and the construction of other related facilities on the property.

In accordance with your authorization, our exploration services included the following tasks:

- a. A review of available geotechnical and geologic literature concerning the site and vicinity;
- b. Site reconnaissance by the Geotechnical Engineer;
- c. Drilling of five exploratory borings and sampling of the subsurface soils.
- d. Laboratory testing of the samples obtained to determine their engineering characteristics;
- e. Analysis of the data and formulation of conclusions and recommendations; and
- f. Preparation of this written report.

Site Location and Description

The subject site is located on the northwest corner of Natomas Park Drive and Garden Highway in Sacramento, California, as shown on Figure 1, "Aerial Vicinity Map". The property is a vacant lot approximately 10.93 acres, and is about a half a mile north of the American River and Discovery Park. The site is bounded by Natomas Park Drive on the north and east, Garden Highway on the south and a small dense wooded area followed by a commercial office building on the west. The topography of the site is relatively flat, with the exception of the south boundary and southeast corner of the property that contains the Garden Highway embankment with a slope approximately 2H:1V (horizontal to vertical) of about 15 feet high. The lot contains an electrical tower in the northwest corner of the property with a transmission line running in the north/south direction along the western half of the site. Remnants of an asphalt paved parking lot, from a previous development is located at the north side of the lot and the north and east perimeter of the property contains a concrete pedestrian sidewalk. Vegetation on the site consists of native grass, weeds, bushes and mature trees surrounding the perimeter of the property.

The above description is based on a reconnaissance of the site by the Geotechnical Engineer, a review of a Google Aerial image dated 7/2/14 and a review of a Conceptual Site Plan prepared by

LPAS dated 2/12/15. The Google Aerial image was used as the basis for our "Aerial Vicinity Map", and the Conceptual Site Plan used as our "Site Plan" included as Figures 1 and 2, respectively, in the Appendix.

Proposed Development

Based on our review of the conceptual site plan by LPAS, the proposed project is planned to be a multi-family apartment project consisting of a 251-unit apartment community. The proposed apartment structures are expected to be three-stories, constructed of wood framing with slab on grade floors. Structural building loads are anticipated to be typical of similar construction. The complex is also expected to include a leasing/clubhouse, fitness center and swimming pool. Additional improvements consist of underground utilities, paved roadway and parking areas, lighting and landscaping. Grading is expected to consist of fill of 1 to 2 feet for achieving design grade for the building pads and on the order of 4 feet or less for constructing driveway entrances.

Field Exploration

The field exploration was performed on 12 May 2015 and included a reconnaissance of the site and the drilling of 5 exploratory test borings at the approximate locations shown on Figure 2, "Site Plan" included in the Appendix.

The borings were drilled to a maximum depth of 45.0 feet below the existing ground surface. The drilling was performed with truck-mounted Mobile B-24 rig using a power-driven, 4-inch diameter continuous flight solid auger. Visual classifications were made from the auger cuttings and the samples in the field. As the drilling proceeded, representative disturbed tube samples were obtained by driving a 3-inch O.D., California Modified split-tube sampler, containing thin brass liners, into the boring bottom in accordance with ASTM D3550. Disturbed samples were also obtained by driving a 2-inch O.D., split-barrel SPT sampler into the boring bottom in accordance with ASTM D1586. The samplers were driven into the in-situ soils under the impact of a 140 pound hammer having a free fall of 30 inches. The number of blows required to advance the sampler 12 inches into the soil were adjusted to the standard penetration resistance (N-Value). The raw blow counts obtained using the California sampler were corrected to equivalent N-Values using Burmister's (1948) energy and diameter correction formula. When the sampler was withdrawn from the boring bottom, the brass liners containing the relatively undisturbed samples were removed, examined for identification purposes, labeled and sealed to preserve the natural or in-situ moisture content.

The samples were then transported to our laboratory for testing. Classifications made in the field were verified in the laboratory after further examination and testing. The stratification of the soils,

descriptions, location of undisturbed soil samples and standard penetration resistance are shown on the respective "Log of Test Boring" contained within the Appendix.

Laboratory Testing

The laboratory testing program was directed towards providing sufficient information for the determination of the engineering characteristics of the site soils so that the recommendations outlined in this report could be formulated. The laboratory test results are presented on the respective Boring Logs and data sheets in the Appendix.

Moisture content and dry density tests (ASTM D2937) were performed on representative relatively undisturbed soil samples in order to determine the consistency of the soil and the moisture variation throughout the explored soil profile as well as estimate the compressibility of the underlying soils.

The strength parameters of the foundation soils were determined from a direct shear test (ASTM D3080) performed on a selected relatively undisturbed soil sample and an unconfined compression tests (ASTM D2166) performed on a relatively undisturbed samples. Standard field penetration resistance (N-Values) also assisted in the determination of strength and bearing capacity. The standard penetration resistances are recorded on the respective "Logs of Test Boring" in the Appendix.

In order to assist in the identification and classification of the subsurface soils, sieve analysis tests (ASTM D6913 & D422) and Atterberg Limits tests (ASTM D4318) were performed on selected soil samples. The Atterberg Limits test results were used to estimate the expansion potential of the near surface soils. The results also aided in our liquefaction analysis.

One laboratory consolidation test (ASTM D2435) was performed on a sample of the underlying clayey soil deposits to determine their compressibility. The result was used to estimate the potential settlement of the proposed improvements.

Two R-Value tests (Cal Test 301) were performed on bulk samples to assist in pavement section design. The bulk samples were obtained from the upper 2 feet at the locations shown on Figure 2.

Representative bulk samples of the near surface soils were obtained to evaluate the presence and concentration of water soluble sulfates in accordance with California Test Method 417. These test results were used to identify the corrosion potential of the soils to concrete. A discussion is presented in the Foundation section of this report.

Subsurface Conditions

Based on our field exploration and laboratory testing, the subsurface soil conditions vary across the site. The surficial soil in Borings 1 through 4, consist of a moderately expansive, stiff, silt layer 3 feet below the surface in Boring 1, and firm to stiff sandy clay and silty clay layer 3 to 5 feet below the surface in Boring 2 through 4. Below the surficial soil layer, in Borings 1 through 4, firm to very stiff silty clay and sandy clay layers extend 37 to 42 feet below the surface, underlain by very dense, poorly graded gravel and rounded stone with little sand until boring termination. In Boring 5, a 6 inch asphalt and aggregate pavement section exists at the surface, underlain by firm to very stiff, moderately expansive silty clay to 38 feet below grade, underlain by very dense, poorly graded, gravel and rounded stone.

The groundwater level encountered in the borings ranged from 15.5 to 16.0 feet below the ground surface. Fluctuations in the groundwater level can occur with variations in seasonal rainfall, subsurface stratification, and irrigation on the site and vicinity.

A more thorough description and stratification of the soils encountered along with the results of the laboratory tests are presented on the respective "Log of Test Boring" in the Appendix. The approximate location of the borings is shown on Figure 2, "Site Plan," in the Appendix.

Site Geology

According to the Preliminary Geologic Map of the Sacramento 30' x 60' Quadrangle¹, the geologic deposits underlying the site are mapped as Holocene aged alluvium deposits. The alluvium deposits consist of varying layers of sands, gravels, silts and clays. The subsurface deposits encountered during our exploration resemble the alluvium deposits.

Geo-Hazards

Seismicity

The site is not located within an Alquist-Priolo Special Studies Zone². There are no known active or inactive faults crossing the site as mapped and/or recognized by the State of California. Earthquake related ground shaking should be expected during the design life of the structures at the site. However, Sacramento is located in a moderate seismically-active region and earthquake

¹ Gutierrez, C. 2011, Geologic Map of the Sacramento 30' x 60' Quadrangle, California Geological Survey.

² Hart, E.W. and Bryant, W.A., 1997, *Fault-Rupture Hazard Zones in California, Alquist-Priolo Earthquake Fault Zoning Act with Index to Earthquake Fault Zones Maps*, California Department of Conservation, Division of Mines and Geology, Special Publication 42, Interim Revision 2007.

related ground shaking could be expected during the design life of structures constructed on the site. The California Geological Survey has defined an active fault as one that has had surface displacement in the last 11,000 years, or has experienced earthquakes in recorded history.

Based on our review of the Fault Activity Map of California³ and the USGS Fault Database⁴, the nearest active faults are the Dunnigan Fault, Great Valley 4 Fault and Foothills Fault System located approximately 21.7 miles northwest, 30.0 miles west and 30.7 miles east of the site, respectively.

Structures at the site should be designed to withstand the anticipated ground accelerations. Based on the USGS Seismic Design Maps⁵ website and ASCE 7-10, the 2013 CBC earthquake design values are as follows.

Site Class: D Design Spectral Response Accelerations: $S_{DS} = 0.566; S_{D1} = 0.354g$

Fault Rupture

The site is not located within an Alquist-Priolo Earthquake Fault Zone. Based on our review of geologic maps, no known active or inactive faults cross or project toward the subject site. In addition, no evidence of active faulting was visible on the site during our site reconnaissance. Therefore, it is our opinion that there is no potential for fault-related surface rupture at the subject site.

Landsliding

The subject site and immediate vicinity is relatively flat and therefore, not subject to seismicallyinduced landslide hazards. With regards to the landside levee slope embankment, no signs of loose colluvial soils were present or evidence of slope instability was observed. Therefore, the potential for landsliding hazards to occur on the levee is very unlikely.

³ Jennings, C.W. and Bryant, W.A., 2010, *Fault Activity Map of California*, California Geological Survey Geologic Data Map No. 6, scale 1:750,000.

⁴ U.S. Geological Survey and California Geological Survey, 2006, Quaternary Fault and Fold Database for the United States, accessed 6/1/15, from USGS web site: http://earthquake.usgs.gov/regional/qfaults/.

⁵ <u>http://geohazards.usgs.gov/designmaps/us/application.php</u>, accessed 6/1/15

Liquefaction

Soil liquefaction is a phenomenon in which loose and saturated cohesionless soils are subject to a temporary, but essentially total loss of shear strength, due to pore pressure build-up under the reversing cyclic shear stresses associated with earthquakes. Soils typically found most susceptible to liquefaction are saturated and loose, fine to medium grained sand having a uniform particle range and less than 35% fines passing the No. 200 sieve, and a corrected standard penetration blow count (N_1)₆₀ less than 30. According to Special Publication 117A by the California Geological Society, the assessment of hazards associated with potential liquefaction of soil deposits at a site must consider translational site instability (i.e. lateral spreading, etc.) and more localized hazards such as bearing failure and settlement. The acceptable factor of safety against liquefaction is recommended in SP117 to be 1.3 or greater.

The data used for evaluating liquefaction potential of the subsurface soils consisted of the in-situ Standard Penetration Resistance values $(N_1)_{60}$ values, the unit weights, gradations, in-situ moisture contents, the groundwater level, and the location of the site to the nearest active fault and the predicted ground surface acceleration. The soil materials encountered on the property consists primarily of cohesive silty and sandy clays with a range of 69% to 98% fines passing the No. 200 sieve. Given the high percentage of fines found throughout the soil profile, it is our opinion that the site soils are not subject to liquefaction hazards.

Settlement Considerations

It is noted that firm to stiff silty clay layers were encountered at varying depths in all the borings. In order to determine the compressibility and potential settlement of these soils, a laboratory consolidation test (ASTM D2435) was performed on a relatively undisturbed soil sample. The result is presented in the Appendix. The sample was found to be over-consolidated but may still have the potential for settlement to exist under current conditions and proposed structure loads. Therefore, we performed a settlement analysis.

Our analysis revealed that up to 1 inch of long-term consolidation settlement may occur across the site due to the proposed development. Differential settlement can be assumed to be approximately one-half of the total or approximately $\frac{1}{2}$ inch across the structure footprints. The anticipated differential settlement values from consolidation should be considered by the Structural Engineer and incorporated in the design of the foundation system.

DISCUSSIONS, CONCLUSIONS, AND RECOMMENDATIONS

<u>General</u>

From a geotechnical point of view, the proposed multi-family apartment project is feasible for construction on the subject site provided the recommendations presented in this report are incorporated into the project plans and specifications.

All grading and foundation plans for the development should be reviewed by *KC ENGINEERING CO*. prior to contract bidding or submittal to governmental agencies to ensure that the geotechnical recommendations contained herein are incorporated and utilized in design.

KC ENGINEERING CO. should be notified at least two working days prior to site clearing, grading, and/or foundation operations on the property. This will give the Soil Engineer ample time to discuss the geotechnical characteristics of the site that may be encountered in the field.

Field observation and testing during the grading and/or foundation operations shall be provided by representatives of *KC ENGINEERING CO*. to enable them to form an opinion regarding the adequacy of the site preparation, the acceptability of fill materials, and the extent to which the earthwork construction and the degree of compaction comply with the specification requirements.

Geotechnical Considerations

The primary geotechnical considerations for the property are the presence of moderately expansive near surface soil conditions and the potential for consolidation settlement. The sites soils are subject to heave and shrink movements with changes in moisture content. These movements may affect foundations, concrete flatwork and pavements. In addition, the potential for total settlement at much as 1 inch and differential settlement of 0.5 inches may exist due to the varying layers of firm to stiff material found.

It is the opinion of **KC ENGINEERING COMPANY** that the proposed apartment structures may be supported on a properly designed and constructed well-reinforced, deepened and interconnected spread footing foundation system. Alternatively, the structures may be supported on thickened post-tension slab foundations to minimize the effects of total and differential settlement. Grading, foundation design, and drainage recommendations are presented herein.

Grading

Grading activities during the rainy season will be hampered by excessive moisture. Grading activities may be performed during the wet/rainy season, however, achieving proper compaction may be difficult due to excessive moisture resulting in project delays to grade the site and/or use of lime treatment. Grading performed during the dry months will minimize the occurrence of the above problems.

The surface of the site in areas to be graded should be stripped to remove all existing surface vegetation and/or other deleterious materials. It is estimated that stripping depths of approximately 1 to 2 inches may be necessary depending on actual conditions at the time of development.

In the building pad and adjacent flatwork areas plus an additional 5 horizontal feet, we recommend that the surface soils be over excavated 12 inches and the bottom 12 inches scarified and moisture conditioned and compacting to a minimum degree of relative compaction of 90% at least 3 percent above optimum moisture content as determined by ASTM D1557 Laboratory Test Procedure. After processing and compacting the bottom 12 inches, the site may be brought to the desired finished grades by placing engineered fill in lifts of 8 to 12 inches in uncompacted thickness, moisture conditioned and compacted to a relative compaction of 90% at 3% or more above optimum moisture content in accordance with the aforementioned test procedure. In all other cut and fill areas, we recommend that the upper 12 inches be scarified, moisture conditioned and compacted as noted above. All soils encountered during our investigation are suitable for use as engineered fill when placed and compacted at the recommended moisture content.

All fill material should be approved by the Soil Engineer. The material should be a soil or soilrock mixture which is free from excessive organic matter or other deleterious substances. The fill material should not contain rocks or lumps over 6 inches in greatest dimension and not more than 15% larger than $2-\frac{1}{2}$ inches. All soils encountered during our investigation, except any excessive organic contaminated materials, would be suitable for use as engineered fill and trench backfill when placed and compacted at the recommended moisture content.

Should import material be used to establish the proper grading for the proposed development, the import material should be approved by the Soil Engineer before it is brought to the site and meet the following requirements:

- a. Have an R-Value of not less than 25;
- b. Have a Plasticity Index not higher than 12;
- c. Not more than 15% passing the No. 200 sieve;
- d. No rocks larger than 6 inches in maximum size;

Prior to compaction, each layer should be spread evenly and should be thoroughly blade mixed during the spreading to obtain uniformity of material in each layer. The fill should be brought to a water content that will permit proper compaction by either (a) aerating the material if it is too wet, or (b) spraying the material with water if it is too dry. Compaction should be performed by footed rollers or other types of approved compaction equipment and methods. Compaction equipment should be of such design that they will be able to compact the fill to the specified density. Rolling of each layer should be continuous over its entire area and the equipment should make sufficient trips to ensure that the required density has been obtained. No ponding or jetting is permitted.

The standard test used to define maximum densities and optimum moisture content of all compaction work shall be the Laboratory Test procedure ASTM D1557 and field tests shall be expressed as a relative compaction in terms of the maximum dry density and optimum moisture content obtained in the laboratory by the foregoing standard procedure. Field density and moisture tests shall be made in each compacted layer by the Soil Engineer of Record in accordance with Laboratory Test Procedure ASTM D6938. When footed rollers are used for compaction, the density and moisture tests shall be taken in the compacted material below the surface disturbed by the roller. When these tests indicate that the compaction requirements on any layer of fill, or portion thereof, have not been met, the particular layer, or portion thereof, shall be reworked until the compaction requirements have been met.

Surface Drainage

A very important factor affecting the performance of structures, flatwork and pavements is the proper design, implementation, and maintenance of surface drainage, as well as maintaining uniform moisture conditions around the structures. Ponded water will cause swelling and/or loss of soil strength and may also seep under structures. Should surface water be allowed to seep under the structures, differential foundation movement resulting in structural damage and/or standing water under the slab may occur. This may cause dampness to the floor which may result in mildew, staining, and/or warping of floor coverings. To minimize the potential for the above problems, dampproofing and/or waterproofing should be provided as required by Section 1805 of the 2013 CBC. In addition, the following surface drainage measures are recommended and must be maintained by the property owner in perpetuity:

a) Liberal building pad slopes and drainage must be provided by the project Civil Engineer to remove all storm water from the pads and to prevent storm and/or irrigation water from ponding adjacent to the structure foundations. The finished pad grade around the structures should be compacted and sloped 5% away from the exterior

foundations and as required in Section 1804.3 of the 2013 CBC. All hardscapes constructed adjacent to the structures must have positive drainage.

- b) Enclosed or trapped planter areas adjacent to the structure foundation should be avoided if possible. Where enclosed planter areas are constructed, these areas must be provided with adequate measures to drain surface water (irrigation and rainfall) away from the foundation or other improvements. Positive surface gradients and/or controlled drainage area inlets should be provided. Care should be taken to adequately slope surface grades away from the structure foundation and into area inlets. Drainage area inlets should be piped to a suitable discharge facility.
- c) The construction of continuous roof gutters is recommended. The downspouts should be connected to a closed pipe system to carry storm water away from the structures. In doing this, the possibility of soil saturation adjacent to the foundation and engineered fills is reduced. Downspout water may be allowed to discharge directly onto concrete or asphalt hardscape surfaces provided positive drainage is provided as designed by the Civil Engineer and maintained.
- d) Over-irrigation of plants is a common source of water migrating beneath a structure. Consequently, the amount of irrigation should not be any more than the amount necessary to support growth of the plants. Foliage requiring little irrigation (drip system) is recommended for the areas immediately adjacent to the structure.
- e) Site drainage should be designed by the project Civil Engineer. Civil engineering, hydraulic engineering, and surveying expertise is necessary to design proper surface drainage to assure that the flow of water is directed away from the foundations and other site improvements.
- f) Landscape mounds or concrete flatwork should not be constructed to block or obstruct the surface drainage paths. The Landscape Architect or other landscaper should be made aware of these landscaping recommendations and should implement them as designed. The surface drainage facilities should be constructed by the contractor as designed by the Civil Engineer.

Foundations

Based on the results of the field and laboratory testing program, the sites near surface foundation soils are considered moderately expansive and subject to consolidation settlement. Provided that the site is graded as recommended above, the proposed structures may be founded on deepened,

well-reinforced and inter-connected spread footing foundation system or a thickened post-tension foundation. Recommendation for both are provided below.

Spread-Footings

A continuous spread footing should be placed around the perimeter of the structures and any interior foundations should be continuously connected to the perimeter. Isolated footings should not be utilized unless connected with embedded reinforced tie-beams. All footings should extend to a minimum depth of 24 inches below lowest adjacent pad grade (i.e., trenching depth below interior slab subgrade soil). At this depth, the recommended design bearing pressure for the continuous footings should not exceed 2,000 p.s.f. due to dead plus live loads. The above allowable pressures may be increased by 1/3 due to transient loads which include wind and seismic. All foundations must be adequately reinforced to provide structural continuity and resist the anticipated loads as determined by the project Structural Engineer. However, continuous footings are to be reinforced with a minimum of four No. 5 bars, two at the top and two near the bottom of the footing. Additional reinforcement will be as required by the structural engineer and in accordance with structural building code requirements. Foundations designed in accordance with the above criteria are expected to experience a total settlement of less than 1.0 inch with less than 0.5 of an inch of differential settlement across the structure footprint.

To accommodate lateral building loads, the passive resistance of the foundation soil can be utilized. The passive soil pressures can be assumed to act against the front face of the footing below a depth of 1 foot below the ground surface. It is recommended that a passive pressure equivalent to that of a fluid weighing 200 p.c.f. be used. For design purposes, an allowable friction coefficient of 0.32 can be assumed at the base of the spread footings. These two modes of resistance should not be added unless the frictional component is reduced by 50 percent since the mobilization of the passive resistance requires some horizontal movement, effectively reducing the frictional resistance.

A bulk sample of the near surface soil was collected and transported to Sunland Analytical in Rancho Cordova for testing of water soluble sulfates in accordance with California Test Method 417. The testing indicates a sulfate content of 34.31 ppm and 27.28 ppm (mg/kg) for the samples collected. It is noted that the sulfate test results indicate "not-applicable" or "S0" sulfate exposure to concrete as identified in Section 1904.1 of the 2013 California Building Code and Tables 4.2.1 and 4.3.1 of ACI 318-11 Building Code Requirements for Structural Concrete. No cement type restriction is required, however, we do recommend that a Type I/II cement be utilized.

Post-Tension

Post-tensioned slabs should be a minimum 10 inches in thickness (for uniform thickness slabs) and designed using the following criteria which is based on the design method of the "Standard Requirements for Design of Shallow Post-Tensioned Concrete Foundations on Expansive Soils", dated May 2008, Third Edition, prepared by the Post Tensioning Institute:

Edge Moisture Variation Distance:		
e _m (Edge Lift)	=	4.0 feet
e _m (Center Lift)	=	7.5 feet
Differential Movement:		
y _m (Edge Lift)	=	1.35 inches
y _m (Center Lift)	=	-0.95 inches
Estimated Differential Settlement:	=	0.5 inches

In addition to the recommendations and guidelines in the Third Edition by the PTI, the following recommendations should also be incorporated into the design and construction for the above structural mat foundation systems:

- a) An allowable bearing capacity of 1,000 p.s.f. may be utilized and may be increased by one-third to resist short-term wind and seismic loading.
- b) To resist lateral loading, a coefficient of friction between the perimeter concrete thickened edge and the soil of 0.32 may be used.
- c) All areas to receive slabs should be thoroughly wetted and soaked to over optimum moisture content and to seal any desiccation cracks prior to placing the underslab components. This work should be performed under the observation of the Soil Engineer and approved prior to concrete placement.
- d) The reinforcement and/or cables shall be placed in the center of the slab unless otherwise designated by the Structural Engineer.
- e) A vapor retarder membrane should be installed between the prepared building pad and the interior slab to minimize moisture condensation under the floor coverings and/or upward vapor transmission. The vapor barrier membrane should be a minimum 15-mil extruded polyolefin plastic that complies with ASTM E1745 Class A and have a

permeance of less than 0.01 perms per ASTM E96 or ASTM F1249. It is noted that polyethylene films (visqueen) do not meet these specifications. The vapor barrier must be adequately lapped and taped/sealed at penetrations and seems in accordance with ASTM E1643 and the manufacturer's specifications. The vapor retarder must be placed continuously across the slab area.

- f) The slabs should be thickened a minimum of 12 inches wide at the edges and extend below pad grade at least 4 inches to create frictional resistance for lateral loading, to provide additional edge rigidity, and to minimize moisture infiltration under the slab.
- g) Water vapor migrating to the surface of the concrete can adversely affect floor covering adhesives. Provisions should be provided in the concrete mix design to minimize moisture emissions. This should include the selection of a water-cement ratio which inhibits water permeation (0.45 max). Additional suitable admixtures to limit water transmission may also be utilized. The slabs should not be subjected to rainfall or cleaning water prior to placement of the floor coverings. In addition, we recommend that a Type I/II cement be utilized in the concrete mix to provide an additional protection against sulfate attack.
- h) Exterior porches and attached covered patios areas should also be designed as part of the same post-tension foundation system.
- i) We recommend that appropriate provisions be provided by the Structural Engineer and Contractor to minimize slab cracking, such as curing measures and/or admixtures to minimize concrete shrinkage and curling. American Concrete Institute and CBC methods and guidelines of curing, such as wet curing or membrane curing, are recommended to minimize plastic and drying shrinkage cracking and curling.
- j) The foundation plans, specifications, calculations and concrete mix designs should be provided to the Structural Engineer and the Soils Engineer for review prior to construction to ensure conformance with the above recommendations.

Slab-on-Grade Construction

Interior and exterior concrete flatwork, including garage floors, driveways and non-structural detached patios and flatwork may experience some cracking due to finishing and curing methods as well as moisture variations within the underlying clay soils. To reduce the potential cracking of the slabs-on-grade, the following recommendations are made:

- a) All areas to receive slabs should be thoroughly soaked to seal any desiccation cracks prior to placing concrete. This work should be done under the observation of the Soil Engineer.
- b) Slabs should be underlain by a minimum of 4 inches of angular gravel or clean crushed rock material placed between the finished subgrade and the slabs to serve as a capillary break between the subsoil and the slab. The gravel should not have more that 10% passing the No. 4 sieve per CBC Section 1805.4.1.
- c) All Slabs and driveways should be a minimum of 5 inches thick and reinforced with a minimum of No. 4 rebar spaced 18 inches center to center, each way. The actual slab thickness and reinforcement should be determined by the project structural engineer in accordance with the structural requirements and the anticipated loading conditions. The reinforcement shall be placed in the center of the slab unless otherwise designated by the design engineer.
- d) A vapor retarder membrane should be installed between the prepared building pad and the interior slab to minimize moisture condensation under the floor coverings and/or upward vapor transmission. The vapor barrier membrane should be a minimum 15-mil extruded polyolefin plastic that complies with ASTM E1745 Class A and have a permeance of less than 0.01 perms per ASTM E96 or ASTM F1249. It is noted that polyethylene films (visqueen) do not meet these specifications. The vapor barrier must be adequately lapped and taped/sealed at penetrations and seems in accordance with ASTM E1643 and the manufacturer's specifications. The vapor retarder must be placed continuously across the slab area.
- e) Garage floors and slabs for driveways, and exterior flatwork should be placed structurally independent of the foundations. A 30-pound felt strip, expansion joint material, or other positive separator should be provided around the edge of all floating slabs to prevent bonding to the foundation. In addition, we do recommend that exterior slabs where adjacent to buildings be rebar doweled to the perimeter foundation to minimize vertical deflections. A doweling detail should be provided by the Structural Engineer.
- f) Exterior slabs should be provided with crack control saw cut joints or tool joints to allow for expansion and contraction of the concrete. In general, contraction joints should be spaced no more than 20 times the slab thickness in each direction. The layout of the joints should be determined by the project Structural Engineer and/or Architect.
g) We recommend that appropriate provisions be provided by the Structural Engineer and Contractor to minimize slab cracking, such as curing measures and/or admixtures to minimize concrete shrinkage and curling. American Concrete Institute and CBC methods and guidelines of curing, such as wet curing or membrane curing, are recommended to minimize plastic and drying shrinkage cracking and curling.

Pavement Areas

The roadways are anticipated to consist of either asphalt concrete (AC) or Portland cement concrete (PCC) surfaces. Recommendations for both pavement surfaces are presented below. We emphasize that the performance of the pavement is critically dependent upon adequate and uniform compaction of the subgrade soils, as well as engineered fill and utility trench backfill within the limits of pavements. Pavements will typically have poor performance and shorter life where water is allowed to migrate into the aggregate base and subgrade soils. The main source of water into a pavement section is landscape planters constructed within or adjacent to pavement areas. Where this is planned, it is recommended to extend the curbs into the soil subgrade at least 2 inches. The construction of all pavements should conform to the requirements set forth by the latest Standard Specifications of the Department of Transportation of the State of California (Caltrans) and/or City of Sacramento.

R-Value: Bulk samples were obtained of the near surface soils within the planned roadways that are relatively representative of the anticipated subgrade soils. The samples were tested in accordance with the California Test Method 301 to determine the R-Value for the site soils. R-Values of 19 and 21 were determined for the two samples obtained as shown in the Appendix. Due to anticipated soil variations, we recommend a maximum R-Value of 15 for design.

Preparation of Subgrade: After underground utilities have been placed in the areas to receive pavement and removal of excess material has been completed, the upper 8 inches of the subgrade soil shall be scarified, moisture conditioned and compacted to a minimum relative compaction of 95% at a moisture content at 3% or more above optimum in accordance with the grading recommendations specified in this report. Prior to placement of aggregate baserock, it is recommended that the subgrade be proof rolled and observed for deflection by the Soils Engineer. Should deflection and/or pumping conditions be encountered, stabilization recommendations will be provided based on field conditions.

Aggregate Base: All aggregate base material placed subsequently should also be compacted to a minimum relative compaction of 95% based on the ASTM Test Procedure D1557. Aggregate base should meet the minimum requirements of Caltrans Class 2 per Section 26. The recommended

aggregate base thicknesses for asphalt concrete pavements are noted in the table below. The minimum aggregate base thickness for Portland cement concrete PCC alley and roadway pavements is 6 compacted inches.

Asphalt Concrete: Bulk samples of the surface soils were obtained from the proposed roadway locations for R-Value testing (California Test Method 301). Based on the lowest R-Value of 15 and a range of traffic indices provided by the City Street Design Table 3.01, the recommended pavement sections were calculated in accordance with Topic 608 of the California Department of Transportation Highway Design Manual. The appropriate traffic index (TI) and any minimum pavement sections should be determined by the Civil Engineer in conformance with the City of Sacramento Specifications.

Traffic Condition	Traffic Index	Asphalt Concrete	Class II Aggregate Base ¹
	(TI)	(inches)	(inches)
Parking Stalls	4.5	3.0	6.5
Driveways	6.0	3.0	11.5

NOTES:

(1) Minimum R-Value = 78 per Section 26

(2) All layers in compacted thickness to CalTrans Standard Specifications.

Portland Cement Concrete: Where PCC pavement areas are utilized, the concrete should be poured on the compacted aggregate base layer. The concrete section should be designed by the project Structural Engineer. We recommend a minimum of 7 inches thick PCC reinforced with a minimum of No. 4 rebar spaced at 16 inches on center, each way, underlain by 6 inches of compacted Class 2 aggregate base. Additional reinforcement may be required by the Structural Engineer.

Retaining Walls

Any retaining walls that are to be constructed such as site walls should be designed to resist lateral pressures exerted from a media having an equivalent fluid weight as noted in the following table. Walls should be founded on spread footings as noted above.

Gradient of	Equiva	lent Fluid Weight (p.c.f.)	Coefficient
Back Slope	Unrestrained	Restrained	Passive	Of Friction
	Condition (Active)	Condition (Active) Condition (At Rest)		
Horizontal	60	80	200	0.32

It should be noted that the effects of any surcharge or compaction loads behind the walls must be accounted for in the design of the walls. In addition, an earthquake load of $15H^2$ applied at 0.6H where H = wall height, from the bottom of the wall is applicable. Restrained conditions should be used where framing or other structural members rests on top or is connected to the top of walls.

The above criteria are based on fully drained conditions. In order to achieve fully-drained conditions, a drainage filter blanket should be placed behind the wall. The blanket should be a minimum of 12 inches thick and should extend the full height of the wall. If the excavated area behind the wall exceeds 12 inches, the entire excavated space behind the 12-inch blanket should consist of compacted engineered fill or blanket material. The drainage blanket material may consist of either granular crushed rock or drain pipe fully encapsulated in geotextile filter fabric (Mirafi 140N or equivalent) or Class II permeable material that meets CalTrans Specification, Section 68. A 4-inch diameter SDR35 perforated drain pipe should be installed in the bottom of the drainage blanket and should be underlain by 4 inches of filter type material. Piping with a minimum gradient of 2% shall be provided to discharge water that collects behind the walls to an adequately controlled discharge system away from the structure foundations.

If mechanically stabilized earth, segmental retaining walls such as Keystone walls are utilized, the design and construction of these proposed flexible modular retaining wall systems should conform to the recommendations of the manufacturer and/or Keystone Retaining Wall Systems or the National Concrete Masonry Association (NCMA). The following soil parameters would be applicable for design using on-site soil materials within the reinforced, retained and bearing zones: $\varphi = 26$ degrees, c = 50 p.s.f., $\gamma = 120$ p.c.f. The wall backfill within the reinforced zone may consist of the on-site soil materials provided it has a maximum Liquid Limit of 40 and a maximum Plasticity Index of 20. The wall embedment should conform to the recommendations by Keystone or NCMA.

Swimming Pools

The pool walls should be designed to resist a lateral soil pressure exerted from a media having an equivalent fluid weight of 80 p.c.f. In addition, the pool shell should be designed to be as rigid and uniform as possible.

A gravel blanket consisting of an eight (8) inch thick layer of clean gravel, under the pool shell is recommended. A hydrostatic relief valve should be installed in the bottom of the pool shell to prevent damage during future maintenance. The gravel should be placed as high up the pool wall as practical. A perforated pipe should be placed in the lowest section of the gravel and be discharge to daylight or a sump. Water proofing should be provided around the pool walls.

It is recommended that the pool deck/flatwork adjacent to the pool areas be reinforced, as designed by the project structural engineer, and cantilevered over the pool bond beam in lieu of the standard coping. Minimum slab-on-grade recommendations are provided above. This will eliminate construction expansion joints between the pool coping and deck slab, which is a continuing maintenance problem. A watertight seal should be placed beneath the concrete slab at the contact with the pool bond beam. Alternatively, the surrounding deck slabs may be structurally connected to the pool shell.

The surrounding concrete flatwork (pool decking) should have positive surface drainage and be provided with an adequate number of surface drains and conduit system to remove surface runoff from rainfall and pool splash. In addition, all concrete flatwork should be provided with construction joints at regular intervals to provide for expansion and contraction of the slab components.

The Soil Engineer should review the pool plans and calculations prior to construction and observe the pool excavation at the completion of excavating activities.

Underground Utility and Excavations

Groundwater was encountered at depths ranging from 15.5 to 16.0 feet below the existing ground surface. Shallower groundwater levels may be encountered. Therefore, depending on the time of year of underground construction groundwater will likely be encountered, especially in deeper utilities. Temporary dewatering and shoring are the responsibility of the Contractor.

Should groundwater be encountered, the utility construction should begin at its lowest point and proceed uphill. The utility trench should be over-excavated 6 to 12 inches below the Sacramento required pipe bedding material. Crushed aggregate drainrock (3/4") should be placed in the bottom of the trench followed by filter fabric and the City standard bedding material. A sump area should be excavated at the lowest point of the open excavation/trench to facilitate pumping of collected water. The collected water should be pumped to a City approved discharge facility.

Utility excavations extending underneath all new traffic areas must be backfilled with native or approved import material and compacted to relative compaction of 90% to within 18 inches of the subgrade. The upper 18 inches should be compacted to 95% relative compaction in accordance with Laboratory Test Procedure ASTM D1557. Backfilling and compaction of these excavations must meet the requirements set forth by the City of Sacramento.

Applicable safety standards require that excavations in excess of 5 feet must be properly shored or that the walls of the excavation slope back to provide safety for installation of lines. If excavation

wall sloping is performed, the inclination should vary with the soil type. The soils at the site are considered to be OSHA Type B. However, should groundwater be encountered, a Type C soil should be used. During excavation operations, the underground contractor should consult with the Soil Engineer for additional recommendations as deemed necessary.

With respect to state-of-the-art construction or local requirements, utility lines are generally bedded with granular materials. These materials can convey surface or subsurface water beneath the structures. It is, therefore, recommended that all utility trenches which possess the potential to transport water be sealed with a compacted impervious cohesive soil material or lean concrete where the trench enters/exits the building perimeter. This impervious seal should extend a minimum of 2 feet away from the building perimeter.

LIMITATIONS AND UNIFORMITY OF CONDITIONS

1. It should be noted that it is the responsibility of the owner or his representative to notify *KC ENGINEERING CO.*, or the Soil Engineer of Record, a minimum of two working days before any clearing, grading, or foundation excavation operations can commence at the site.

2. The recommendations of this report are based upon the assumption that the soil conditions do not deviate from those disclosed in the borings and from a reconnaissance of the site. Should any variations or undesirable conditions be encountered during the development of the site, *KC ENGINEERING CO.*, or the Soil Engineer of Record, will provide supplemental recommendations as dictated by the field conditions.

3. This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information and recommendations contained herein are brought to the attention of the Architect and Engineer for the project and incorporated into the plans and that the necessary steps are taken to see that the Contractor and Subcontractors carry out such recommendations in the field.

4. At the present date, the findings of this report are valid for the property investigated. With the passage of time, significant changes in the conditions of a property can occur due to natural processes or works of man on this or adjacent properties. In addition, legislation or the broadening of knowledge may result in changes in applicable standards. Changes outside of our control may render this report invalid, wholly or partially. Therefore, this report should not be considered valid after a period of two (2) years without our review, nor should it be used, or is it applicable, for any properties other than those investigated.

5. Not withstanding, all the foregoing applicable codes must be adhered to at all times.

APPENDIX

Aerial Vicinity Map

<u>Site Plan</u>

Log of Test Borings

Subsurface Exploration Legend

Laboratory Test Results

USGS Seismic Design Criteria





KC ENGINEERING COMPANY

865 Cotting Lane, Suite A Vacaville, CA 95688 707.447.4025 Project No. VV3853 Proposed Natomas Park Drive Apartments Natomas Park Drive & Garden Highway Sacramento, California Figure 1 – AERIAL VICINITY MAP





ONSULTA

Project No. VV3853		
Proposed Natomas Park Drive Apartments		
Natomas Park Drive & Garden Highway		
Sacramento, California		
Figure 2 – SITE PLAN	Appen	dix C

	LOG OF TEST BORING BORING NO.: 1								
	PROJECT: Proposed Natomas Park Dr. Apts PROJECT NO.: VV3853 CLIENT: Demmon Partners DATE: 5/12/15 LOCATION: Natomas Park Drive & Garden HighwayELEVATION: n/a DRILLER: Hillside Drilling LOGGED BY: ES DRILL RIG: Mobile B-24 BORING DIAMETER: 4" DEPTH TO WATER: INITIAL \vert 16 FINAL: \vert : AFTER: HRS								
ДЕРТН	SAMPLE NO.	SAMPLER	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION	SOIL CLASSIFICATION	CONVERTED SPT BLOW COUNT (BLOWS/FT.)	DRY DENSITY (PCF)	MOISTURE CONTENT (PERCENT)	ADDITIONAL TESTS AND REMARKS (LL, PI, UCC, ø&c, Gradation)
0 — -				Brown SILT; moist, stiff. (NATIVE)	- 				
-	1-1			Brown Silty CLAY; moist, very stiff.	CL	11	85.5	23.0	LL=48% PI=18 <200=96%
5	1-2					17	89.6	21.8	
- 10 — -	1-3			As Above, stiff.		14			Qp=2.5 tsf
-	1_4			Gray & Reddish Brown Silty CLAY; moist, firm.		7	77 7	40.0	On=1 5 tsf
15 — - -	1-4			<u>-</u>	<u>Z</u>			-0.0	
- 20 — -	1-5			As Above, stiff.		14			Qp=2.7 tsf
- 25 — -				Brown Sandy CLAY; moist, stiff.					
т	his i	nfo	rmati	on pertains only to this boring and is not necessarily in	licativ	ve of the	e whole	e site.	

	LOG OF TEST BORING BORING NO.: 1								
	PRO CLIE OC. DRIL DRIL DEP	JE NT AT LE L	CT: ION R: RIG	Proposed Natomas Park Dr. AptsPROJECDemmon PartnersDATE: 4I: Natomas Park Drive & Garden HighwayELEVATHillside DrillingLOGGEI: Mobile B-24BORING• WATER: INITIAL \ \ I6FINAL: 4	CT N 5/12/ 1ON D BY 6 DIA ¥:	O.: V 15 : n/a ': ES METE	TV385 ER: 4 AFTE	53 4" E R :	HRS
DEPTH	SAMPLE NO.	SAMPLER	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION	SOIL CLASSIFICATION	CONVERTED SPT BLOW COUNT (BLOWS/FT.)	DRY DENSITY (PCF)	MOISTURE CONTENT (PERCENT)	ADDITIONAL TESTS AND REMARKS (LL, PI, UCC, ø&c, Gradation)
- - 30 — -	1-6			As Above		10	97.8	27.0	Qp=2.0 tsf <200=74%
- 35 — -				Increased Drill Resistance					
- 40 — - -	1-7			No Recovery Drill Chatter Gravel & Rounded Stone, Poorly Graded w/ little sand; wet, very dense	GP	11			4" Cave-In
- 45 — - -	1-8			Boring Terminated @ 45'. Groundwater encountered @ 16'.		50-6"			
50 —									
55 — T	his i	nfo	rmati	on pertains only to this boring and is not necessarily indi	cativ	e of the	e whole	e site.	

	LOG OF TEST BORING BORING NO.: 2									
F () [] [] []	PROJECT: Proposed Natomas Park Dr. AptsPROJECT NO.: VV3853CLIENT: Demmon PartnersDATE: 5/12/15LOCATION: Natomas Park Drive & Garden HighwayELEVATION: n/aDRILLER: Hillside DrillingLOGGED BY: ESDRILL RIG: Mobile B-24BORING DIAMETER: 4"DEPTH TO WATER: INITIAL \vee 15.5FINAL: \vee : AFTER: HRS									
рертн	SAMPLE NO.	SAMPLER	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION		SOIL CLASSIFICATION	CONVERTED SPT BLOW COUNT (BLOWS/FT.)	DRY DENSITY (PCF)	MOISTURE CONTENT (PERCENT)	ADDITIONAL TESTS AND REMARKS (LL, PI, UCC, ø&c, Gradation)
0 — - -	2-1			Brown Sandy CLAY; moist, stiff. (NATIVE)		CL	14	98.7	18.1	
- 5 — -	2-2			Brown & Gray Silty CLAY; moist, stiff.		CL	10	93.7	23.7	UCC=4430 psf
- - 10 — -	2-3			As Above, very stiff.			16			
- - 15 - - -	2-4			Gray & Reddish Brown Silty CLAY; moist, firm.	∑ <u>−</u>	CL	7	80.8	37.4	<200=87%
- 20 — -				Bluish Gray & Brown Silty CLAY; moist, stiff.		CL				
- 25 - -	2-5						14	110.8	12.0	Qp=3.5tsf <200=91%
Т	his i	.nfor	mati	on pertains only to this boring and is not necessar	ily indi	cativ	e of the	whole	site.	

LOG OF TEST BORING BORING NO.: 2								
PROJECT: Proposed Natomas Park Dr. Apts PROJECT NO.: VV3853 CLIENT: Demmon Partners DATE: 5/12/15 LOCATION: Natomas Park Drive & Garden HighwayELEVATION: n/a DRILLER: Hillside Drilling LOGGED BY: ES DRILL RIG: Mobile B-24 BORING DIAMETER: 4" DEPTH TO WATER: INITIAL \vert 15.5 FINAL: \vert : AFTER: HRS								
DEPTH SAMPLE NO. SAMPLER GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION	SOIL CLASSIFICATION	CONVERTED SPT BLOW COUNT (BLOWS/FT.)	DRY DENSITY (PCF)	MOISTURE CONTENT (PERCENT)	ADDITIONAL TESTS AND REMARKS (LL, PI, UCC, ø&c, Gradation)		
O Ø Ø O	As Above, firm. Drill Resistance (Chatter) Gravel w/ Sand; wet, very dense. Boring Terminated @ 42'. Water Encountered @ 15.5'.	GP	7 50-6"	<u>u</u>	A site.			

	LOG OF TEST BORING BORING NO.: 3									
F () [[[PROJECT: Proposed Natomas Park Dr. AptsPROJECT NO.: VV3853CLIENT: Demmon PartnersDATE: 5/12/15LOCATION: Natomas Park Drive & Garden HighwayELEVATION: n/aDRILLER: Hillside DrillingLOGGED BY: ESDRILL RIG: Mobile B-24BORING DIAMETER: 4"DEPTH TO WATER: INITIAL \ \ 16'FINAL: \ \: AFTER: HRS									
рертн	SAMPLE NO.	SAMPLER	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION		SOIL CLASSIFICATION	CONVERTED SPT BLOW COUNT (BLOWS/FT.)	DRY DENSITY (PCF)	MOISTURE CONTENT (PERCENT)	ADDITIONAL TESTS AND REMARKS (LL, PI, UCC, ø&c, Gradation)
0 - - -	3-1			Brown Silty CLAY; moist, firm. (NATIVE)		CL	5	76.1	38.9	Qp=3.5 tsf c=227 psf Ø=21.8 deg
5 - - - -	3-2						13			Qp=2.5 tsf
10 - - - -	3-3			As Above, firm.			7	87.8	30.2	<200=80%
15 - - - -					Ā					
20 -				Bluish Gray & Brown Silty CLAY; moist, very stiff.		CL				
25 -	3-4						22			Pc' =3095 psf Qp=2.5 tsf
r 1	his i	nfo	rmati	on pertains only to this boring and is not necessar	ily indi	cativ	e of the	whole	e site.	

PROJECT: Proposed Natomas Park Dr. Apts DATE: 5/12/15 LOCATION: Natomas Park Drive & Garden HighwayELEVATION: n/a DRILLER: Hillside Drilling LOGGED BY: ES DRILL RIG: Mobile B-24 BORING DIAMETER: 4" DEPTH TO WATER: INITIAL ♥ 16' FINAL: ♥: AFTER: HRS	LOG OF TEST BORING BORING NO.: 3								
30 1	PROJEC CLIENT: LOCATIC DRILLER DRILL RI DEPTH T	T: Proposed Natomas Park Dr. AptsPROJEDemmon PartnersDATE:N: Natomas Park Drive & Garden HighwayELEVA: Hillside DrillingLOGGEG: Mobile B-24BORING: O WATER: INITIAL \ \ I6'FINAL:	CT N 5/12/ TION ⊡ BN G DIA ¥:	0.: V 15 : n/a : ES METE	TV385 ER: AFTE	53 4" :R:	HRS		
30 - 35 - 55 - 57 -	DEPTH SAMPLE NO. SAMPLER	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION	SOIL CLASSIFICATION	CONVERTED SPT BLOW COUNT (BLOWS/FT.)	DRY DENSITY (PCF)	MOISTURE CONTENT (PERCENT)	ADDITIONAL TESTS AND REMARKS (LL, PI, UCC, ø&c, Gradation)		
40 - GP 50-6"	30 - 35 - 35 - 40 -	Drill Resistance (Chatter) GRAVEL w/ Sand; wet, very dense. Boring Terminated @ 38.5'. Groundwater encountered @ 16'.	GP	50-6"					
45 -	45								

	LOG OF TEST BORING BORING NO.: 4									
F () [] [] []	PROJECT: Proposed Natomas Park Dr. Apts PROJECT NO.: VV3853 CLIENT: Demmon Partners DATE: 5/12/15 LOCATION: Natomas Park Drive & Garden HighwayELEVATION: n/a DRILLER: Hillside Drilling LOGGED BY: ES DRILL RIG: Mobile B-24 BORING DIAMETER: 4" DEPTH TO WATER: INITIAL \vert 15.5' FINAL: \vert : AFTER: HRS									
рертн	SAMPLE NO.	SAMPLER	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION		SOIL CLASSIFICATION	CONVERTED SPT BLOW COUNT (BLOWS/FT.)	DRY DENSITY (PCF)	MOISTURE CONTENT (PERCENT)	ADDITIONAL TESTS AND REMARKS (LL, PI, UCC, ø&c, Gradation)
0 — -	4-1			Brown Sandy CLAY w/ silt; moist, stiff. (NATIVE)		CL	10	84.1	29.4	<200=71%
- - 5 — -				Gray & Reddish Brown Silty CLAY; moist, firm to stiff.		CL				
-	4-2			As Above			8	81.7	35.2	UCC=2710 psf Qp=3.0 tsf
10 - - 15 -										
- - 20 — -	4-3			Bluish Gray & Brown Silty CLAY; moist, stiff.		CL	14	89.8	31.9	Qp=2.0 tsf
- - 25 -				Gray & Brown Sandy CLAY; moist, firm to stiff.		CL				
т	his i		rmati	on pertains only to this boring and is not necessarily	indi	cativ	e of the	e whole	site.	

	LOG OF TEST BORING BORING NO.: 4								
PF CL LC DF DF DE	BOKING NO.: 4 PROJECT: Proposed Natomas Park Dr. Apts PROJECT NO.: VV3853 CLIENT: Demmon Partners DATE: 5/12/15 LOCATION: Natomas Park Drive & Garden HighwayELEVATION: n/a DRILLER: Hillside Drilling LOGGED BY: ES BORING DIAMETER: 4" DEPTH TO WATER: INITIAL 15.5' FINAL: \vec{15.5'								
DEPTH	SAMPLE NO.	SAMPLER GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION	SOIL CLASSIFICATION	CONVERTED SPT BLOW COUNT (BLOWS/FT.)	DRY DENSITY (PCF)	MOISTURE CONTENT (PERCENT)	ADDITIONAL TESTS AND REMARKS (LL, PI, UCC, ø&c, Gradation)	
- 4 30 - 4 30	1-4		As Above Drill Resistance (Chatter) GRAVEL w/ Sand; wet, very dense. Boring Terminated @ 43'. Groundwater encountered @ 15.5'.	GP	8	85.2	36.6	Qp=1.7 tsf <200=69%	
- - - - - - - - - 55 - Thi	.s in	format	ion pertains only to this boring and is not necessarily indi	cativ	e of the	e whole	site.		

	LOG OF TEST BORING BORING NO.: 5									
F C L C C	PROJECT: Proposed Natomas Park Dr. Apts PROJECT NO.: VV3853 CLIENT: Demmon Partners DATE: 5/12/15 LOCATION: Natomas Park Drive & Garden HighwayELEVATION: n/a DRILLER: Hillside Drilling LOGGED BY: ES DRILL RIG: Mobile B-24 BORING DIAMETER: 4" DEPTH TO WATER: INITIAL \vec{16} 16'									
рертн	SAMPLE NO.	SAMPLER	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION		SOIL CLASSIFICATION	CONVERTED SPT BLOW COUNT (BLOWS/FT.)	DRY DENSITY (PCF)	MOISTURE CONTENT (PERCENT)	ADDITIONAL TESTS AND REMARKS (LL, PI, UCC, ø&c, Gradation)
0 — - - -	5-1			[_] 2" Asphalt, 4" Agg. Base Brown Silty CLAY; moist, firm to stiff.		CL	7	67.3	47.3	LL=58% Pl=18 Qp=1.5 tsf
5	5-2			As Above, stiff.			9	83.3	33.7	
10 — - - -	5-3			As Above			10	86.4	34.3	Qp=3.0 tsf
15 — - - - 20 — -	5-4			Bluish Gray & Brown Silty CLAY; moist, very stiff.	<u> </u>	CL	18			
- 25 — - - 1	his i	nfo	rmati	on pertains only to this boring and is not neces	sarily indi	cativ	e of the	e whole	e site.	

	LOG OF TEST BORING BORING NO.: 5									
	BORING NO.: 5 PROJECT: Proposed Natomas Park Dr. Apts PROJECT NO.: VV3853 CLIENT: Demmon Partners DATE: 5/12/15 LOCATION: Natomas Park Drive & Garden HighwayELEVATION: n/a DRILLER: Hillside Drilling DRILL RIG: Mobile B-24 BORING DIAMETER: 4" DEPTH TO WATEP: INITIAL ∞ 16' 16'									
DEPTH	SAMPLE NO.	SAMPLER	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION		SOIL CLASSIFICATION	CONVERTED SPT BLOW COUNT (BLOWS/FT.)	DRY DENSITY (PCF)	MOISTURE CONTENT (PERCENT)	ADDITIONAL TESTS AND REMARKS (LL, PI, UCC, ø&c, Gradation)
- 30 — - -	5-5			Brown Silty CLAY; moist, firm.		CL	7	92.4	31.4	On=1 5 tef
	5-5			Drill Resistance (Chatter) Boring Terminated @ 38'. Groundwater encountered @ 16'.			,	92.4	51.4	<200=72%
40 - - - 45 —										
- 55 — T	his i	nfo	ormati	on pertains only to this boring and is not necessarily	indi	cativ	e of the	e whole	e site.	

UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS			SYMBOLS		TYPICAL NAMES		
uo	GRAVEL More than half	Clean gravels (<5% fines)	GW		Well graded gravels, gravel-sand mixtures, little or no fines (Cu \geq 4 & 1 \leq Cc \leq 3)		
DILS	of coarse fraction is		GP		Poorly graded gravels, gravel-sand mixtures, little or no fines (Cu < 4 and/or 1>Cc>3)		
3D S(l is re ieve	larger than No. 4 sieve	Gravel with fines	GM		Silty gravels and gravel-sand-silt mixtures (PI<4 or below "A" line)		
AINE nateria 200 Si		(5-12% fines)	GC		Clayey gravels and gravel-sand-clay mixtures (PI>7 & on or above "A" line)		
E GR	SAND Half or more	Clean sands (<5% fines)	SW		Well graded sands, gravelly sands, little or no fines (Cu>6 & 1 <cc<3)< td=""></cc<3)<>		
ARSI an hal the	of the coarse fraction is		SP		Poorly graded sands, gravelly sands, little or no fines (Cu<6 and/or 1>Cc>3)		
CO2 ore this	smaller than No. 4 sieve	Sand with fines	SM		Silty sands and gravel-sand-silt mixtures (PI<4 or below "A" line)		
Ŵ		(5-12% fines)	SC		Clayey sands and gravel-sand-clay mixtures (PI>7 & on or above "A" line)		
LS rial	SILTS AN Liquid Limit is	D CLAYS s less than 50%	ML		Inorganic silts with gravel and sand having slight plasticity (PI<4 or below "A" line)		
SOI mate o. 200	-		CL		Inorganic clays of low to med. plasticity with gravel and sand (PI>7 & on or above "A" line)		
NED of the han N			OL		Organic silts and clays of low plasticity		
GRAI more	SILTS AND CLAYS Liquid Limit is 50% or m	D CLAYS s 50% or more	MH		Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts (PI below "A" line)		
NE C ulf or 1 is sma			СН		Inorganic clays of high plasticity, fat clays (PI on or above "A" line)		
Η			OH		Organic silts and clays of medium to high plasticity		
HIGHLY ORGANIC SOILS			Pt		Peat and other highly organic soils		



MTI-KC ENGINEERING COMPANY 865 Cotting Lane, Ste A, Vacaville, CA 95688 8798 Airport Road, Redding, CA 96002

SAMPLER AND LAB TESTING LEGEND

Auger M Bulk Sample, taken from auger cuttings California Sampler Bulk/Grab Sample Pitcher Standard Penetration Test Shelby Tube Ν No Recovery LL=Liquid Limit (%) PI=Plasticity Index Φ=Friction Angle C=Cohesion UCC=Unconfined Compression R value=Resistance Value

Consol=Consolidation Test

SOIL GRAIN SIZE U.S. STANDARD SIEVE OPENINGS



RELATIVE DENSITY (Coarse-grained soils)

SANDS & GRAVELS	BLOWS/FOOT ¹
Very Loose	0-4
Loose	4 – 10
Medium Dense	10-30
Dense	30 - 50
Very Dense	> 50

CONSISTENCY (Fine-grained soils)

	· ·	<i>,</i>
SILTS & CLAYS	STRENGTH ²	BLOWS/FOOT ¹
Very Soft	< 500	0-2
Soft	500 - 1,000	2-4
Firm	1,000 – 2,000	4-8
Stiff	2,000 - 4,000	8-15
Very Stiff	4,000 - 8,000	15-30
Hard	> 8,000	>30

1-Number of blows of 140 pound hammer falling 30 inches to drive a 2-inch O.D. split spoon sampler (ASTM D1586)

2 - Unconfined compressive strength in lb/ft² as determined by lab testing or approximated by the standard penetration test (ASTM D1586) or pocket penetrometer.

WEATHERING (Bedrock)

Fresh	No visible sign of decomposition or discoloration; rings under
	hammer impact
Slightly	Slight discoloration inwards from open fractures; little or no
weathered	effect on normal cementation; otherwise similar to Fresh
Moderately weathered	Discoloration throughout; weaker minerals decomposed; strength somewhat less than fresh rock but cores can not be broken by hand or scraped with knife; texture preserved; cementation little to not affected; fractures may contain filling
Highly	Most minerals somewhat decomposed; specimens can be
weathered	broken by hand with effort or shaved with knife; texture
	becoming indistinct but fabric preserved; faint fractures
Completely	Minerals decomposed to soil but fabric and structure
weathered	preserved; specimens can be easily crumbled or penetrated

BEDDING (Bedroo	k) SPACING (inches)	
------------------------	--------------	---------	--

· · · · · · · · · · · · · · · · · · ·	· · ·
Very thickly bedded	> 48
Thickly bedded	24 to 48
Thin bedded	2.5 to 24
Very thin bedded	5/8 to 2.5
Laminated	1/8 to 5/8
Thinly laminated	<1/8

STRENGTH (Bedrock)

Plastic	Very low strength
Friable	Crumbles easily by rubbing with fingers
Weak	An unfractured specimen will crumble under light
	hammer blows
Moderately strong	Specimen will withstand a few heavy hammer blows
	before breaking
Strong	Specimen will withstand a few heavy ringing blows and
	will yield with difficulty only dust and small flying
	fragments
Very strong	Specimen will resist heavy ringing hammer blows and
	will yield with difficulty only dust and small flying
	fragments

FRACTURING (Bedrock) SPACING (inches)

· · · ·	
Very little fractured	> 48
Occasionally fractured	12 to 48
Moderately fractured	6 to 12
Closely fractured	1 to 6
Intensely fractured	5/8 to 1
Crushed	<5/8



Materials Testing, Inc.

8798 Airport Road Redding, California 96002 (530) 222-1116, fax 222-1611 865 Cotting Lane, Suite A Vacaville, California 95688 (707) 447-4025, fax 447-4143

Client: Demmon Partners 1451 River Park Drive, Suite 121 Sacramento, CA 95815

Client No.:	VV3853-001
Report No.:	0300-001
Date:	06/02/15

Project: Proposed Natomas Park Drive Apartments Sacramento, California

Submitted by: KC Engineering

Density of Soil in Place by the Drive-Cylinder Method (ASTM D2937) and Liquid Limit, Plastic Limit & Plasticity Index of Soils (ASTM D4318)

Sample	Description	Dry	Moisture	Liquid	Plastic	Plastic
#		Density	Content	Limit	Limit	Index
		p.c.f.	%			
1-1 @ 2.0'	Brown Silt	85.5	23.0	48	30	18
1-2 @ 4.5'	Brown Silty Clay (visual)	89.6	21.8			
1-4 @ 14.5'	Brown Silty Clay (visual)	77.7	40.0			
1-6 @ 29.5'	Brown Sandy Clay (visual)	97.8	27.0			
2-1 @ 2.0'	Brown Sandy Clay (visual)	98.7	18.1			
2-2 @ 4.5'	Brown Silty Clay (visual)	93.7	23.7			
2-4 @ 14.5'	Brown Silty Clay (visual)	80.8	37.4			
2-5 @ 24.5'	Dark Brown Silty Clay	110.8	12.0			
	(visual)					
3-1 @ 3.0'	Brown Silty Clay (visual)	76.1	38.9			
3-3 @ 13.0'	Brown Silty Clay (visual)	87.8	30.2			
4-1 @ 2.0'	Brown Sandy Clay with silt	84.1	29.4			
	(visual)					
4-2 @ 8.0'	Brown Silty Clay (visual)	81.7	35.2			
4-3 @ 18.0'	Brown Silty Clay (visual)	89.8	31.9			
4-4 @ 29.0'	Brown Sandy Clay (visual)	85.2	36.6			
5-1 @ 2.0'	Brown Silty Clay (visual)	67.3	47.3	58	40	18
5-2 @ 6.0'	Brown Silty Clay (visual)	83.3	33.7			
5-3 @ 11.0'	Brown Silty Clay (visual)	86.4	34.3			
5-5 @ 34.0'	Brown Silty Clay (visual)	92.4	31.4			

Construction Materials Testing and Quality Control Services
Soil - Concrete - Asphalt - Steel - Masonry



























Materials Testing, Inc.

8798 Airport Road Redding, California 96002 (530) 222-1116, fax 222-1611

865 Cotting Lane, Suite A Vacaville, California 95688 (707) 447-4025, fax 447-4143

Demmon Partners	Client No:	VV3853-001
1451 River Park Drive, Suite 121	Report No:	0300-014
Sacramento, CA 95815	Date:	06/02/15
	Demmon Partners 1451 River Park Drive, Suite 121 Sacramento, CA 95815	Demmon PartnersClient No:1451 River Park Drive, Suite 121Report No:Sacramento, CA 95815Date:

Project: Proposed Natomas Park Drive Apartments Sacramento, California

Submitted by: KC Engineering

"R" VALUE TEST REPORT (ASTM D2844)

Sample:	R-1
Description:	Brown Sandy Clay with Gravel
Location:	South Half of Site

SIEVE ANALYSIS

Sieve Size	1-1/2"	1"	3/4"	1/2"	3/8"	#4
"As Received" (Percent Pass)	100	98	96	90	89	86
"As Used"			100	94	93	90
(Percent Pass)						

RESISTANCE VALUE

Specimen	Dry Unit	Moisture	Exudation	Expa	nsion	R-Value
Number	Weight, PCF	(%)	Pressure	Pressure Dial		
			(PSI)	Reading	g & PSF	
1	102.7	19.7	306	33	143	20
2	99.5	21.4	190	23	100	9
3	94.7	26.1	89	12	52	5

R-Value @ 300 PSI Exudation Pressure = 19 R-Value @ Expansion = ---

> Construction Materials Testing and Quality Control Services Soil - Concrete - Asphalt - Steel - Masonry



Materials Testing, Inc.

8798 Airport Road Redding, California 96002 (530) 222-1116, fax 222-1611

865 Cotting Lane, Suite A Vacaville, California 95688 (707) 447-4025, fax 447-4143

Client:	Demmon Partners	Client No:	VV3853-001
	1451 River Park Drive, Suite 121	Report No:	0300-015
	Sacramento, CA 95815	Date:	06/02/15

Project: Proposed Natomas Park Drive Apartments Sacramento, California

Submitted by: KC Engineering

"R" VALUE TEST REPORT (ASTM D2844)

Sample:	R-2
Description:	Brown Sandy Silt with Gravel
Location:	North Side of Site

SIEVE ANALYSIS

Sieve Size	1-1/2"	1"	3/4"	1/2"	3/8"	#4
"As Received" (Percent Pass)		100	99	98	97	93
"As Used"			100	99	98	94
(Percent Pass)						

RESISTANCE VALUE

Specimen	Dry Unit	Moisture	Exudation	Expansion		R-Value
Number	Weight, PCF	(%)	Pressure	Pressure Dial		
			(PSI)	Reading	g & PSF	
1	92.3	24.4	304	48	208	22
2	90.1	26.8	177	34	147	16
3	89.7	29.2	100	25	108	9

R-Value @ 300 PSI Exudation Pressure = 21 R-Value @ Expansion = ---

> Construction Materials Testing and Quality Control Services Soil - Concrete - Asphalt - Steel - Masonry


Sunland Analytical

11419 Sunrise Gold Circle, #10 Rancho Cordova, CA 95742 (916) 852-8557

> Date Reported 05/20/2015 Date Submitted 05/15/2015

To: David Cymanski K.C. Engineering 865 Cotting Lane Suite A Vacaville, CA 95688

From: Gene Oliphant, Ph.D. General Manager

The following is the report of analysis requested on SUN Order 69519. Your purchase order number is . Thank you for your business.

SUN #	Sample Describ	Sample #	Chloride as ppm Cl	Sulfate as ppm SO4	
			/Dry Wt.	/Dry Wt.	
144728	VV3853-NORTH	SULFATE 0-2 FT	No Test	34.31	
144729	VV3853-SOUTH	SULFATE 0-2 FT	No Test	27.28	

Methods: Sulfate-Cal Trans #417, Chloride-Cal Trans #422

WUSGS Design Maps Summary Report

User-Specified Input

Report Title	Prop. Natomas Park Drive, Demmon Partners Mon June 1, 2015 16:30:53 UTC
Building Code Reference Document	ASCE 7-10 Standard (which utilizes USGS hazard data available in 2008)
Site Coordinates	38.6086°N, 121.5038°W
Site Soil Classification	Site Class D - "Stiff Soil"
Risk Category	I/II/III



USGS-Provided Output

S _s =	0.672 g	S _{MS} =	0.848 g	S _{DS} =	0.566 g
S ₁ =	0.293 g	S _{M1} =	0.532 g	S _{D1} =	0.354 g

For information on how the SS and S1 values above have been calculated from probabilistic (risk-targeted) and deterministic ground motions in the direction of maximum horizontal response, please return to the application and select the "2009 NEHRP" building code reference document.



For PGA_{M} , T_L , C_{RS} , and C_{R1} values, please <u>view the detailed report</u>.

http://ehp3-earthquake.wr.usgs.gov/designmaps/us/summary.php?template=minimal&latitude=38.6086&longitude=-121.5038&siteclass=3&riskcategory=0&edi... 1/2

EUSGS Design Maps Detailed Report

ASCE 7-10 Standard (38.6086°N, 121.5038°W)

Site Class D – "Stiff Soil", Risk Category I/II/III

Section 11.4.1 — Mapped Acceleration Parameters

Note: Ground motion values provided below are for the direction of maximum horizontal spectral response acceleration. They have been converted from corresponding geometric mean ground motions computed by the USGS by applying factors of 1.1 (to obtain S_s) and 1.3 (to obtain S_1). Maps in the 2010 ASCE-7 Standard are provided for Site Class B. Adjustments for other Site Classes are made, as needed, in Section 11.4.3.

From <u>Figure 22-1</u> ^[1]	$S_{s} = 0.672 \text{ g}$
From <u>Figure 22-2</u> ^[2]	S ₁ = 0.293 g

Section 11.4.2 — Site Class

The authority having jurisdiction (not the USGS), site-specific geotechnical data, and/or the default has classified the site as Site Class D, based on the site soil properties in accordance with Chapter 20.

Site Class	\overline{v}_{s}	N or N _{ch}	\bar{s}_{u}
A. Hard Rock	>5,000 ft/s	N/A	N/A
B. Rock	2,500 to 5,000 ft/s	N/A	N/A
C. Very dense soil and soft rock	1,200 to 2,500 ft/s	>50	>2,000 psf
D. Stiff Soil	600 to 1,200 ft/s	15 to 50	1,000 to 2,000 psf
E. Soft clay soil	<600 ft/s	<15	<1,000 psf
	Any profile with more that characteristics: • Plasticity index <i>PI</i> • Moisture content w • Undrained shear s	n 10 ft of soil hat > 20, v ≥ 40%, and trength \overline{s}_{u} < 500	oving the D psf
F. Soils requiring site response analysis in accordance with Section 21.1	See	e Section 20.3.1	-

Table 20.3–1 Site Classification

For SI: 1ft/s = $0.3048 \text{ m/s} 11b/ft^2 = 0.0479 \text{ kN/m}^2$

Section 11.4.3 — Site Coefficients and Risk–Targeted Maximum Considered Earthquake (MCE_R) Spectral Response Acceleration Parameters

Site Class	Mapped MCE _R Spectral Response Acceleration Parameter at Short Period				
	S _s ≤ 0.25	$S_{s} = 0.50$	$S_{s} = 0.75$	$S_{s} = 1.00$	S _s ≥ 1.25
A	0.8	0.8	0.8	0.8	0.8
В	1.0	1.0	1.0	1.0	1.0
С	1.2	1.2	1.1	1.0	1.0
D	1.6	1.4	1.2	1.1	1.0
Е	2.5	1.7	1.2	0.9	0.9
F	See Section 11.4.7 of ASCE 7				

Table 11.4–1: Site Coefficient F_a

Note: Use straight-line interpolation for intermediate values of S_s

For Site Class = D and $S_s = 0.672 \text{ g}$, $F_a = 1.262$

Table 11.4-2:	Site Coefficient $\mathrm{F_{v}}$
---------------	-----------------------------------

Site Class	Mapped MCE $_{R}$ Spectral Response Acceleration Parameter at 1-s Period				
	$S_1 \leq 0.10$	$S_1 = 0.20$	$S_1 = 0.30$	$S_1 = 0.40$	$S_1 \ge 0.50$
A	0.8	0.8	0.8	0.8	0.8
В	1.0	1.0	1.0	1.0	1.0
С	1.7	1.6	1.5	1.4	1.3
D	2.4	2.0	1.8	1.6	1.5
Е	3.5	3.2	2.8	2.4	2.4
F	See Section 11.4.7 of ASCE 7				

Note: Use straight-line interpolation for intermediate values of S₁

For Site Class = D and $S_1 = 0.293 \text{ g}$, $F_v = 1.814$

Appendix C

Equation (11.4–1):	$S_{MS} = F_a S_S = 1.262 \times 0.672 = 0.848 g$				
Equation (11.4-2):	$S_{M1} = F_v S_1 = 1.814 \times 0.293 = 0.532 g$				
Section 11.4.4 — Design Spectral Acceleration Parameters					
Equation (11.4–3):	$S_{DS} = \frac{2}{3} S_{MS} = \frac{2}{3} \times 0.848 = 0.566 g$				
Equation (11.4-4):	$S_{D1} = \frac{2}{3} S_{M1} = \frac{2}{3} \times 0.532 = 0.354 g$				

Section 11.4.5 — Design Response Spectrum

From **Figure 22-12**^[3]

 $T_L = 12$ seconds



Section 11.4.6 — Risk-Targeted Maximum Considered Earthquake (MCE_R) Response Spectrum

The MCE_{R} Response Spectrum is determined by multiplying the design response spectrum above



Section 11.8.3 — Additional Geotechnical Investigation Report Requirements for Seismic Design Categories D through F

From Figure 22-7 ^[4]	PGA = 0.229
---------------------------------	-------------

Equation (11.8–1): $PGA_{M} = F_{PGA}PGA = 1.341 \times 0.229 = 0.308 g$

Table 11.8–1: Site Coefficient F _{PGA}						
Site	Mapped MCE Geometric Mean Peak Ground Acceleration, PGA					
Class	PGA ≤ 0.10	PGA = 0.20	PGA = 0.30	PGA = 0.40	PGA ≥ 0.50	
A	0.8	0.8	0.8	0.8	0.8	
В	1.0	1.0	1.0	1.0	1.0	
С	1.2	1.2	1.1	1.0	1.0	
D	1.6	1.4	1.2	1.1	1.0	
Е	2.5	1.7	1.2	0.9	0.9	
F	See Section 11.4.7 of ASCE 7					

Note: Use straight-line interpolation for intermediate values of PGA

For Site Class = D and PGA = 0.229 g, $F_{PGA} = 1.341$

Section 21.2.1.1 — Method 1 (from Chapter 21 – Site-Specific Ground Motion Procedures for Seismic Design)

 From Figure 22-17
 [5]
 C_{RS} = 1.107

 From Figure 22-18
 [6]
 C_{R1} = 1.123

Appendix C http://ehp3-earthquake.wr.usgs.gov/designmaps/us/report.php?template=minimal&latitude=38.6086&longitude=-121.5038&siteclass=3&riskcategory=0&edition... 5/6

Section 11.6 — Seismic Design Category

	RISK CATEGORY			
	I or II	III	IV	
S _{DS} < 0.167g	А	А	А	
$0.167g \le S_{DS} < 0.33g$	В	В	С	
0.33g ≤ S _{DS} < 0.50g	С	С	D	
0.50g ≤ S _{DS}	D	D	D	

Table 11.6-1 Seismic Design Category Based on Short Period Response Acceleration Parameter

For Risk Category = I and S_{DS} = 0.566 g, Seismic Design Category = D

Table 11.6-2 Seismic Design Category	Based on 1-S Period Response Acceleration Parameter
--------------------------------------	---

	RISK CATEGORY			
VALUE OF S _{D1}	I or II	III	IV	
S _{D1} < 0.067g	A	А	А	
$0.067g \le S_{D1} < 0.133g$	В	В	С	
$0.133g \le S_{D1} < 0.20g$	С	С	D	
0.20g ≤ S _{D1}	D	D	D	

For Risk Category = I and S_{D1} = 0.354 g, Seismic Design Category = D

Note: When S_1 is greater than or equal to 0.75g, the Seismic Design Category is **E** for buildings in Risk Categories I, II, and III, and **F** for those in Risk Category IV, irrespective of the above.

Seismic Design Category \equiv "the more severe design category in accordance with Table 11.6-1 or 11.6-2" = D

Note: See Section 11.6 for alternative approaches to calculating Seismic Design Category.

References

- 1. Figure 22-1: http://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-1.pdf
- 2. Figure 22-2: http://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-2.pdf
- Figure 22-12: http://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-12.pdf
- 4. *Figure 22-7*: http://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-7.pdf
- 5. *Figure 22-17*: http://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-17.pdf
- Figure 22-18: http://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-18.pdf



PHASE I ENVIRONMENTAL SITE ASSESSMENT

DEMMON PARTNERS 2450 NATOMAS PARK DR

JANUARY 2021

PREPARED FOR:

Demmon Partners 601 University Ave, Suite 110 Sacramento, CA 95835

PREPARED BY:

Analytical Environmental Services 1801 7th Street, Suite 100 Sacramento, CA 95811 (916) 447-3479 www.analyticalcorp.com



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Appendix C	Sanborn No Coverage Document
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SECTION 1.0 INTRODUCTION

1.1 PURPOSE

This Phase I Environmental Site Assessment (Phase I ESA) has been prepared in conformance with the American Society for Testing and Materials (ASTM) Standard Practice E 1527-13, which specifies the appropriate inquiry requirement for the innocent landowner defense under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This Phase I ESA encompasses Sacramento County Assessor's Parcel Number (APN) 274-0410-016 totaling approximately 9 acres, located on Natomas Park Drive within the City of Sacramento, California (**Figure 1**). As such, the use of the term "Subject Property" refers to the entire property, unless otherwise stated. The purpose of this assessment is to identify Recognized Environmental Conditions (RECs) that may affect future uses of the Subject Property.

This Phase I ESA covers the Subject Property and surrounding known sources of contamination, up to a 1.0-mile radius from the Subject Property. A site reconnaissance inspection of the Subject Property and adjacent properties was conducted and relevant database listings of hazardous material sites, waste generators, and underground storage tanks (USTs) were reviewed for this update (**Appendices A - E**). Additionally, historical topographic maps and aerial photographs of the Subject Property were also reviewed for this update.

1.2 RECOGNIZED ENVIRONMENTAL CONDITIONS

The term REC refers to the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with relevant laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public 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. The term Historical Recognized Environmental Conditions (HREC) refers to environmental conditions associated with the Subject Property, including a past release of any hazardous substance or petroleum product that have since been remediated, which in the past would have been considered a REC. Furthermore, a Controlled Recognized Environmental Condition (CREC) refers to a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority.



Figure 1 Regional Location

1.3 LIMITATIONS AND EXCEPTIONS

No Phase I ESA can completely eliminate uncertainty regarding the potential for RECs in connection with a property. Conformance of this assessment with ASTM Standard Practice E 1527-13 will reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with the Subject Property. While every effort has been made to discover and interpret available historical and current information on the property within the time available, the possibility of undiscovered contamination remains. This report produced by Analytical Environmental Services (AES) is a best-effort collection and interpretation of available information consistent with industry standards for the completion of Phase I ESAs.

This Phase I ESA is based on a site reconnaissance of the Subject Property, a visual reconnaissance of adjacent properties, searches of government hazardous materials databases, and interviews with individuals familiar with current and historical uses of the Subject Property. Physical testing of soil or groundwater was not within the scope of this assessment. Asbestos containing building materials (ACM) and lead-based paint surveys were not included. Information was obtained for this Phase I ESA to comply with current ASTM guidelines.

1.4 METHODOLOGY

A variety of data sources were consulted in completing this Phase I ESA. The following sub-sections describe the methods used and the data sources consulted to accomplish each task.

HISTORICAL REVIEW

Previous land uses and history of the Subject Property were researched in an effort to identify RECs at or near the Subject Property. Historical aerial photographs (Appendix A) and topographic maps (Appendix B) from different decades were examined for the presence of aboveground storage tanks, industrial buildings, gas station canopies and/or pump islands, as well as other indications of bulk hazardous material storage within the study area. Sanborn Fire Insurance Maps document historical property use through abbreviations and map symbols that identify commercial, residential, industrial, residential and other land uses. The Subject Property is unmapped in the Sanborn Library; thus, no records were available for review (Appendix C). The City Database Directory was consulted to ascertain previous land uses of the Subject Property (Appendix D).

DATABASE SEARCHES

Database searches were conducted for records of known storage tank sites and known sites of hazardous materials generation, storage, and/or release. Available information from federal, state, and local agency lists consists of: (a) known or potential hazardous waste sites and landfills; (b) sites currently under investigation for environmental violations; (c) sites which manufacture, generate, use, store, and/or dispose of hazardous materials or hazardous wastes; (d) sites which have USTs and/or above-ground storage tanks (ASTs); and (e) sites with recorded violations of regulations concerning USTs and

hazardous materials/hazardous wastes. The database search is intended to identify facilities that may have the potential to impact surface and subsurface conditions on the Subject Property. A full listing of sites within the vicinity of the Subject Property is provided in **Appendix E**.

SITE RECONNAISSANCE

Charlane Gross of AES conducted a reconnaissance inspection of the Subject Property and adjacent properties on December 22, 2020. The purpose of the site reconnaissance was to examine the Subject Property for obvious physical indications of improper hazardous substance or evidence of petrochemical disposal, such as stained soil, stressed vegetation, sumps, partially buried drums, bulk underground and above-ground fuel storage tanks, and other obvious signs of hazardous materials involvement. In addition, adjacent properties were visually inspected to the extent possible without trespassing on private property to determine if current land uses would affect the planned uses of Subject Property.

1.5 DEVIATIONS AND DATA GAPS

ASTM Standard E 1527-13 requires any significant data gaps, deviations, and deletions from the ASTM Standard to be identified and addressed in the Phase I ESA. A significant data gap would be one that affected the ability to identify a REC on the Subject Property or adjacent properties. Due to the location of the Subject Property, Sanborn Fire Insurance Maps were not available. However, aerial photographs and historic topographic maps were available for review of past uses of the Subject Property. Thus, the lack of Sanborn Fire Insurance Maps is not considered a significant data gap for this Phase I ESA.

1.6 CREDENTIALS

Charlane Gross prepared this report under the professional supervision of Trenton Wilson, who qualifies as an environmental professional (EP) as defined in the ASTM Standard E 1527-13 [40 CFR §312.10(b)]. Resumes for Charlane Gross and Trenton Wilson are included as **Appendix H**.

SECTION 2.0 SITE DESCRIPTION

2.1 LOCATION AND LEGAL DESCRIPTION

The Subject Property is located in the City of Sacramento (City) in northwestern Sacramento County (County), California (**Figures 2** and **3**). The Subject Property is located north of Garden Highway and east of California State Route 99 (Highway 99)/Interstate 5 (I-5), north of the American River.

2.2 SITE AND VICINITY CHARACTERISTICS

The Subject Property is fully developed with facilities related to the Natomas Racquet Club, including a building, swimming pool, tennis and volleyball courts, and paved parking. Trees are located around the perimeter of the Subject Property. The topography of the Subject Property is level, at an elevation of 15 feet above mean sea level. The Subject Property receives water and wastewater services from the City of Sacramento Department of Utilities.

Regional access is provided by Highway 99/I-5, located 0.25 miles west of the Subject Property, which runs in a north-south direction through the center of California. Local access to the Subject Property from Highway 99/I-5 is provided by Garden Highway, a two-lane highway that runs in an east-west direction just south of the Subject Property; and Natomas Park Drive, a two-lane road that provides direct access to the Subject Property.

2.3 LOCAL ENVIRONMENTAL RECORDS SOURCES

2.3.1 LOCAL ENVIRONMENTAL AGENCY

The Environmental Data Resources (EDR) database report and the State Water Resources Control Board (SWRCB) Geotracker website (SWRCB, 2020) included a search of th Sacramento County hazardous materials data (Appendix E.

2.3.2 DEPARTMENT OF PLANNING AND ZONING

Zoning designations on the Subject Property were reviewed through information provided by the City of Sacramento (City of Sacramento, 2019). The Subject Property is zoned OB (Office Building) and C-2 (General Commercial). Current land use on the Subject Property is consistent with this zoning designation.



SOURCE: "Sacramento West, CA" USGS 7.5 Minute Topographic Quadrangle, T9N R4E, Section 26, Mt. Diablo Baseline & Meridian; ESRI, 2020; AES, 12/17/2020 – 2450 Natomas Park Drive Phase I ESA / 220554 🔳

Figure 2 Site and Vicinity

Appendix D



– 2450 Natomas Park Drive Phase I ESA / 220554 🔳

Figure 3 Aerial Photograph

Appendix D

2.3.3 ELECTRICAL UTILITY COMPANY

The Sacramento Municipal Utility District (SMUD) provides electrical service to the Subject Property. An overhead transmission line crosses from north to south over the center of the Subject Property. There is an underground gas line running along the eastern border of the Subject Property from Natomas Park Drive to the pool.

2.3.4 OTHER LOCAL ENVIRONMENTAL RECORDS SOURCES

The SWRCB Geotracker website was reviewed for listings of USTs, leaking underground storage tanks (LUSTs), or spill cases in association with petroleum chemicals at the Subject Property (SWRCB, 2020). The Geotracker website had no listing of USTs, LUSTs, or spill cases on the Subject Property.

2.4 HYDROLOGY

The Subject Property is level, but has been placed on a slightly elevated land surface; surface water within the Subject Property drains as sheet flow towards lower areas to the north, south and west. Bannon Slough formerly ran along the western border of the Subject Property.

2.5 GEOLOGY AND SOIL

The rock stratigraphic unit at the Subject Property is of the Cenozoic era, Quaternary system, and Quaternary series (**Appendix E**). The San Andreas Fault lies approximately 80 miles west of the Subject Property. Sailboat soil is the most abundant formation on the Subject Property. This soil type is somewhat poorly drained with a slow infiltration rate.

2.6 CURRENT USES OF THE SUBJECT PROPERTY

The Subject Property is fully developed with the facilities of the Natomas Racquet Club and appurtenant facilities including parking lots, landscape medians, a pool, spa, tennis courts, and main sports complex and maintenance buildings. Site photos showing conditions of the Subject Property during the site visit are included on **Figures 4a** and **4b**.

2.7 HISTORIC USES OF THE SUBJECT PROPERTY

2.7.1 AERIAL PHOTOGRAPHS

Available historic aerial photographs (**Appendix A**) were reviewed for information regarding past uses of the Subject Property and surrounding areas. The following aerial photographs were available for review at a scale of 1 inch to 500 feet: 1937, 1947, 1953, 1957, 1964, 1966, 1972, 1984, 1993, 1998, 2006, 2009, 2012, and 2016. Aerial photographs were of varying clarity. Historical aerial images offer detailed review of previous land uses on the Subject Property and adjacent properties. The Subject Property appears to have been used for agriculture through the 1984 aerial photographs. Because the last agricultural use was over 30 years ago, any residual pesticide could constitute a HREC or CREC,

however there is no indication of a REC that would limit land use for residential development. The structures depicted in 1993 do not match with those of the Natomas Racquet Club, which is clearly visible by 1998.

2.7.2 HISTORIC TOPOGRAPHIC MAPS

Available historic USGS Topographic Quadrangles (**Appendix B**) were reviewed for information regarding past uses of the Subject Property. Maps available included 1892 and 1893 Sacramento 30' maps, 1902 and 1907 Fairoaks and Davisville 15' maps, 1911, 1915, and 1916 Arcade, Brighton, Elkhorn Weir, and Lovdal 7.5' maps, 1948 Sacramento West 7.5' map, 1949-1950 Sacramento East, Sacramento West, Taylor Monument, and Rio Linda 7.5' maps, 1954 Sacramento East 7.5' maps, 1992 Sacramento East, Sacramento West, Sacramento West, and Rio Linda 7.5' maps, 1954 Sacramento East 7.5' maps, and 2012 Sacramento East, Sacramento West, Taylor Monument, and Rio Linda 7.5' maps, 1954 Sacramento East 7.5' maps, and 2012 Sacramento East, Sacramento West, Taylor Monument, and Rio Linda 7.5' maps, 1954 Sacramento East 7.5' maps, and 2012 Sacramento East, Sacramento West, Taylor Monument, and Rio Linda 7.5' maps, 1954 Sacramento East 7.5' maps.

2.8 SANBORN FIRE INSURANCE MAPS

Due to its rural nature, the Subject Property is not mapped through the Sanborn database. A certified complete database search was completed and is attached as **Appendix C**.

2.9 OTHER PHYSICAL SETTING SOURCES

2.9.1 WETLANDS MAP

According to the National Wetlands Inventory, freshwater forested/Shrub Wetlands are located in the very southwestern-most corner of the Subject Property (USFWS, 2020). A slough corridor currently lies immediately to the west of the Subject Property (USFWS, 2020), however portions may have meandered across the boundary of the Subject Property prior to development.

2.9.2 FLOODPLAIN MAP

The Federal Emergency Management Agency (FEMA) designates flood risk areas based on a parcel's location with respect to 100-year and 500-year floodplains. A 100-year flood is the flood elevation that has a 1 percent chance of being equaled or exceeded each year and a 500-year flood is the flood elevation that has a 0.2 percent chance of being equaled or exceeded each year. FEMA prepares Flood Insurance Rate Maps (FIRMs) that show the flood risk designations of lands throughout the U.S.

Map number 06067C0157J (effective June 16, 2015) shows that the Subject Property is located in Flood Zone A99 (FEMA, 2015; **Appendix F**). Zone A99 indicates property on the landward (and therefore protected) side of a levee. A copy of the floodplain map is included in **Appendix F**.

SECTION 3.0 SITE RECONNAISSANCE AND INTERVIEWS

3.1 OBJECTIVE

The objective of the site reconnaissance is to identify current or historic hazardous materials involvement on the Subject Property or in the vicinity of the Subject Property. Hazardous materials involvement or signature environmental conditions include the presence or likely presence of any hazardous materials or petroleum products that indicate an existing release, past release, or a threat of release into any structure on the property, soil, or groundwater. Signs of possible hazardous materials involvement would include any indications of USTs existing on the Subject Property; stained soils and/or unusual odors originating from the Subject Property; indications of any excavation or removal of soils, including patched asphalt and large debris piles; and other obvious signs of hazardous materials involvement.

3.2 SITE RECONNAISSANCE FINDINGS

A site reconnaissance of the Subject Property was performed by Charlane Gross of AES on December 22, 2020. Adjacent properties were observed to the extent possible without trespassing. **Figures 4a** and **4b** provides photographs that show the site conditions at the time of the site visit. Notable features and environmental conditions are summarized below and in **Table 3-1**:

- A transmission line bisects the Subject Property; cell tower infrastructure is located on top of the transmission line towers (Photo 1). The Subject Property contains two principal structures, the main sports complex (Photo 2) as well as a maintenance building. The outdoor portion of the facility features tennis courts, volleyball courts, a spa, and a pool as well as parking for the facility. Oil stains were visible at some parking spaces (Photo 3).
- There was a pump room for the pool and spa located inside the main building (Photo 4), as well as a laundry room (Photo 5) and pool chemical storage (Photo 6) in the maintenance building, including larger plastic barrels for mixing chemicals (Photo 7).
- There were electrical junction boxes on the north, south, and east, and a dumpster in the parking lot at the time of the site visit (**Photo 8**).

A survey of adjacent properties was performed to the extent possible without trespassing during the December 22, 2020 site visit. The purpose was to identify adjacent businesses and determine if current land uses would affect the planned use of the Subject Property.



Photo 1: Transmission Line with Cell Tower Infrastructure Facing North



Photo 2: Main Sports Complex Facing Northeast



Photo 3: Oil Stains in Parking Lot

Photo 4: Pump Room

Figure 4a Site Photographs



Photo 5: Laundry Room Drain



Photo 6: Pool Chemical Storage



Photo 7: Pool Chemical Mixing Barrels

Photo 8: Dumpster

Site Setting	Observations
Current Uses of Property	The Subject Property consists of the Natomas Racquet Club
	complex.
Past Uses of Property	Agricultural and undeveloped.
Current Uses of Adjoining Property	North: West El Camino Avenue lies directly north, with Bannon
	Creek Park and residential development beyond.
	South: Natomas Park Drive is directly south. There is an
	apartment complex beyond Natomas Park Drive, with Garden
	Highway beyond.
	East: River Terrace Apartments lie directly to the east.
	West: There is commercial development, including a bank and
	restaurant to the west.
Current or Past Uses in the Surrounding Area	Rural and agriculture
Geologic, Hydrogeologic, Hydrologic, and	The Subject Property is level, and drains as sheet flow to the
Topographic Conditions	north, south and west. Bannon Slough formerly ran along the
	western portion of the Subject Property.
General Description of Structures	There are the main sports complex building, the maintenance
	building, tennis courts, a pool, and a spa.
Roads	There are two entrances off of Natomas Park Drive.
Potable Water Supply	A water line runs along Natomas Park Drive, south of the
	Subject Property.
Sewage Disposal System	There are no septic systems or cesspools on the Subject
	Property. Sewage disposal is provided by the City of
	Sacramento
Waste Removal Services	Waste removal is provided by Atlas Disposal Industries.
Hazardous Substances and Petroleum	No hazardous substances or petroleum products were
Products in Connection with Identified Uses	observed.
Storage Tanks and Associated Piping	No storage tanks were observed.
Odors	No strong, pungent, or noxious odors were observed.
Pools of Liquid	No pools of liquid were observed.
Drums (5 gal to 55 gal containers should be	Drums and containers for storage and mixing of pool chemicals
described)	were observed, all appeared to be properly stored and in good
	condition.
Hazardous Substances and Petroleum	Pool chemicals may constitute hazardous substances; all
Products Containers	chemicals observed appeared to be properly stored and in
	good conditon.
Unidentified Substance Containers	No unidentified substance containers were observed.

 TABLE 3-1

 SUMMARY OF SITE OBSERVATIONS

Polychlorinated Biphenyls (PCBs)	No transformers were observed on the property and no other
· · · · · · · · · · · · · · · · · · ·	potential PCB-containing structures were observed.
Pits, Ponds, or Lagoons	No pits, ponds, or lagoons were observed.
Stained Soil or Pavement	Stained pavement was observed in the parking lot.
Stressed Vegetation	No stressed vegetation was observed.
Solid Waste	Debris, including office furniture and goods were observed
	within a dumpster.
Waste Water	No waste water or other liquids were observed being
	discharged into a drain, ditch, underground injection system, or
	stream on or adjacent to the property.
Wells	No wells were observed on or adjacent to the Subject Property,
	and there is no record of wells on the Subject Property.
Septic System	No septic systems or cesspools are located on the Subject
	Property.
Heating and Cooling Systems	Heating and cooling systems were internal and located within
	the main sports complex building.

3.3 INTERVIEWS AND QUESTIONNAIRES

Standard owner and user questionnaires were distributed by AES and are included in Appendix G.

OWNER/USER QUESTIONNAIRE AND OWNER PROVIDED INFORMATION

In a questionnaire dated December 29, 2020, Larry Gilzean, the property owner, reported no knowledge of any RECs on the Subject Property (Appendix G).

Commonly Known or Reasonably Ascertainable Information, and Actual Knowledge of the User

Question 5 of the Owner/User Questionnaire asks if the owner s aware of "commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases of hazardous materials." Mr. Gilzean checked the "yes" box to confirm he had knowledge of the past/present uses of the property, as he is the President of the company (Spare Time Sports Clubs) that owns and operates the Natomas Racquet Club.

The Owner of the Subject Property does not know of any spills or other chemical releases that have taken place at the property. In addition, the Owner does not know of any environmental cleanups that have taken place at the property, does not have any reason to believe contamination is present at the property (**Appendix G**).

Environmental Liens, Activity and Use Limitations, and Valuation Reductions

The EDR report (EDR, 2020), reported that there are no environmental liens against the Subject Property that are filed or recorded under federal, tribal state or local law. The owner confirmed that the purchase

price reasonably reflects the fair market value of the property, that he does not have specialized knowledge regarding a reduction in value of the Subject Property due to environment issues, and that he is not aware of any Recorded Activity and Use Limitations (AULs) (**Appendix G**).

Degree of Obviousness

The owner confirmed that based on his knowledge and experience related to the property, there are no obvious indicators that point to the presence or likely presence of hazardous materials products or petroleum product releases at the Subject Property.

Specialized Knowledge

The Owner/User Questionnaire confirms that the owner does not have specialized knowledge or experience related to the Subject Property or nearby properties.

ADJACENT PROPERTY OWNER AND AGENCY INTERVIEWS

Mr. David Von Aspern, an Environmental Specialist III with the City of Sacramento Environmental Department was interviewed over the telephone on January *5*, 2021. Mr. Von Aspern stated that he is very familiar with the Subject Property as he completed Phase I assessments of two properties immediately to the west of the Subject Property and is, in addition, a long-time resident of the area. In the interview, Mr. Von Aspern mentioned that there was allegedly a dump west of the Subject Property, within Bannon Slough, however he had never been able to confirm that fact, and Mr. Von Aspern stated that he had no knowledge of hazardous materials anywhere within the Subject Property (**Appendix G**).

In a questionnaire dated January 5, 2021, Mr. Scott Walsh, a neighbor of the Subject Property, completed an interview. Mr. Walsh has been a neighbor for over 5 years and stated that he was unaware of any hazardous materials deposited on the Subject Property (**Appendix G**).

SECTION 4.0 RECORDS REVIEW

4.1 DATABASE SEARCH

Database searches were conducted for records of known storage tank sites and known sites of hazardous materials generation, storage, and/or contamination. Databases were searched for sites and listings up to 1.0 mile from a point roughly equivalent to the center of the Subject Property. The environmental database review was accomplished by using the services of a computerized search firm, EDR. EDR uses a geographic information system to plot locations of past or current hazardous materials involvement. The EDR report was reviewed to determine if the Subject Property and adjacent sites are listed on regulatory agency databases. The purpose is to determine if adjacent sites contain REC that would impact surface and/or subsurface conditions on the Subject Property. Included in the EDR database report is a list of "unmapped sites." Two unmapped sites may be located within the applicable search radius of the Subject Property. The complete list of reviewed databases is provided in the EDR report, included in **Appendix E**, and is summarized in **Table 4-1**. In addition, the information on past and/or current hazardous material involvement relating to adjacent properties is summarized in **Section 4.2.2**.

REGULATORY AGENCY DATABASE		PROPERTY	SITES
	SEARCH DISTANCE	LISTED	LISTED
United States Environmental Protection Agency (USEPA) National Priorities List (NPL)	1.00 mile	No	0
USEPA Proposed NPL	1.00 mile	No	0
USEPA NPL Liens	ТР	No	0
USEPA Delisted NPL	1.00 mile	No	0
USEPA Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) Federal Facility	0.50 mile	No	0
USEPA CERCLIS Superfund Enterprise Management System (SEMS)	0.50 mile	No	0
USEPA CERCLIS No Further Remedial Action Planned (NFRAP) SEMS – Archive	0.50 mile	No	0
USEPA Resource Conservation and Recovery Act (RCRA) Corrective Action Reports (CORRACTS)	1.00 mile	No	0
USEPA RCRA non-CORRACTS Treatment, Storage, and Disposal Facilities (TSDF)	0.50 mile	No	0
USEPA RCRA Large Quantity Generators (LQG)	0.25 mile	No	0
USEPA RCRA Small Quantity Generators (SQG)	0.25 mile	No	0
USEPA RCRA Very Small Quantity Generators (VSQG)	0.25 mile	No	0
USEPA Land Use Control Information System (LUCIS)	0.50 mile	No	0
USEPA Engineering Controls Sites List (US ENG CONTROLS)	0.50 mile	No	0
USEPA Institutional Controls Sites List (US INST CONTROL)	0.50 mile	No	0
United States Coast Guard (USCG) Emergency Response Notification	ТР	No	0

 TABLE 4-1

 ENVIRONMENTAL DATA RESOURCES (EDR) SUMMARY OF AGENCY DATABASES

REGULATORY AGENCY DATABASE	MINIMUM SEARCH DISTANCE	PROPERTY LISTED	SITES LISTED
System (ERNS)			
California Department of Toxic Substance and Control (DTSC) Response Sites (RESPONSE)	1.00 mile	No	0
EnviroStor (ENVIROSTOR)	1.00 mile	No	2
CA State Waste Facility/Landfill (SWF/LF)	0.50 mile	No	0
CA Leaking Underground Storage Tanks (LUST)	0.50 mile	No	2
Indian LUST	0.50 mile	No	0
CA SLIC	0.50 mile	No	2
Sacramento Co. CS	0.05 mile	No	1
Federal Emergency Management Agency (FEMA) Underground Storage Tank (UST)	0.25 mile	No	0
CA UST	0.25 mile	No	0
CA Aboveground Storage Tank (AST)	0.25 mile	No	0
Indian UST	0.25 mile	No	0
Indian Voluntary Cleanup Program (VCP)	0.50 mile	No	0
CA VCP	0.50 mile	No	0
CA Brownfields	0.50 mile	No	0
USEPA Brownfields	0.50 mile	No	0
CA Waste Management Unit Database (WMUDS/SWAT)	0.50 mile	No	0
CA State Recycling Facilities (SWRCY)	0.50 mile	No	0
CA Registered Waste Tire Haulers Listing (HAULERS)	TP	No	0
Indian Open Dump Inventory (ODI)	0.50 mile	No	0
USEPA Debris Region 9	0.50 mile	No	0
USEPA ODI	0.50 mile	No	0
IHS Open Dumps	0.50 mile	No	0
US Historic Clandestine Laboratory (US HIST CDL)	ТР	No	0
CA Historical Calsites Database (HIST Cal-Sites)	1.00 mile	No	0
CA School Property Evaluation Program (SCH)	0.25 mile	No	0
CA CDL	ТР	No	0
Toxic Pit Cleanup Act Sites (Toxic Pits)	1.00 mile	No	0
CERS HAZ WASTE	0.25 mile	No	0
US CDL	ТР	No	0
PFAS	0.5 mile	No	0
CA State Water Resources Control Board (SWRCB) Underground	0.25 mile	No	0
Storage Tank Division Registered UST List (SWEEPS UST)	0.25 mile	110	Ŭ
CA Historical Registered UST (HIST UST)	0.25 mile	No	0
CERS Tanks	0.25 mile	No	0
CA Facility Inventory Database (FID UST)	0.25 mile	No	0
CERCLA LIENS	ТР	No	0
CERCLA LIENS 2	ТР	No	0
California Deed Restriction Listing (DEED)	0.50 mile	No	0
Hazardous Material Information Reporting System (HMIRS)	ТР	No	0
CA HMIRS (CHMIRS)	ТР	No	0

REGULATORY AGENCY DATABASE	MINIMUM	PROPERTY	SITES
	SEARCH DISTANCE	LISTED	LISTED
CA Land Disposal Sites Listing (LDS)	TP	No	0
CA Military Cleanup Sites Listing (MCS)	ТР	No	0
CA SPILLS 90	ТР	No	0
USEPA RCRA Non-Generators (NonGen) / No Longer Regulated (NLR)	0.25 mile	No	0
Formerly Used Defense Sites (FUDS)	1.00 mile	No	1
Department of Defense (DOD)	1.00 mile	No	0
State Coalition for Remediation of Drycleaners (SCRD DRYCLEANERS)	0.50 mile	No	0
US Financial Assurance Data (US FIN ASSUR)	ТР	No	0
USEPA Watch List	ТР	No	0
2020 Corrective Action (2020 COR ACTION)	0.25 mile	No	0
Toxic Substances Control Act (TSCA)	ТР	No	0
Toxic Chemical Release Index System (TRIS)	ТР	No	0
Section 7 Tracking System (SSTS)	ТР	No	0
Records of Decision (ROD)	1.00 mile	No	0
Risk Management Plans (RMP)	TP	No	0
RCRA Administrative Action Tracking System (RAATS)	ТР	No	0
Potentially Responsible Parties (PRP)	ТР	No	0
Polychlorinated Biphenyl (PCB) Activity Database System (PADS)	TP	No	0
Integrated Compliance Information System (ICIS)	РТР	No	0
Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) / TSCA Tracking System (FTTS)	ТР	No	0
Material Licensing Tracking System (MLTS)	ТР	No	0
Steam-Electric Plant Operation Data (COAL ASH DOE)	ТР	No	0
Coal Combustion Residues Surface Impoundments (COAL ASH USEPA)	0.50 mile	No	0
PCB Transformer Registration Database (PCB TRANSFORMER)	ТР	No	0
Radiation Information Database (RADINFO)	ТР	No	0
FTTS Administrative Case Listing (HIST FTTS)	ТР	No	0
Incident and Accident Data (DOT OPS)	ТР	No	0
Superfund (CERCLA) Consent Decrees (CONSENT)	1.00 mile	No	0
Indian Reservations (INDIAN RESERV)	ТР	No	0
Formerly Utilized Sites Remedial Action Program (FUSRAP)	1.00 mile	No	0
Uranium Mill Tailings Sites (UMTRA)	0.50 mile	No	0
Lead Smelters	ТР	No	0
Aerometric Information Retrieval System Facility Subsystem (US AIRS)	ТР	No	0
Mines Master Index File (US MINES)	0.25 mile	No	0
Abandoned Mines	ТР	No	0
USEPA Facility Index System (FINDS)	ТР	Yes	1
Unexploded Ordnance Sites (UXO)	1.00 mile	No	0
Docket Hazardous Waste Compliance (DOCKET HWC)	ТР	No	0

REGULATORY AGENCY DATABASE	MINIMUM SEARCH DISTANCE	PROPERTY	SITES
Enforcement and Compliance History Online (ECHO)	TP	No	0
LISEPA Fuels Program (FUELS PROGRAM)	0.25 mile	No	0
CA Department of Health Services (DHS) Bond Expenditure Plan (CA	0.25 mile		0
BOND EXP. PLAN)	1.00 mile	No	0
CA Cortese Hazardous Waste and Substances List (Cortese)	0.50 mile	No	2
CA Certified Unified Program Agency (CUPA) Listings	0.25 mile	No	0
CA Dry Cleaners	0.25 mile	No	0
California Integrated Water Quality System (CIWQS)	ТР	No	0
CA Emissions Inventory Data (EMI)	ТР	No	0
CA Enforcement Action Listing (ENF)	ТР	No	0
CA FIN ASSUR	ТР	No	0
CA Facility and Manifest Data (HAZNET)	ТР	No	0
ICE	ТР	No	0
HIST CORTESE	0.50 mile	No	1
CA EnviroStor Permitted Facilities Listing (HWP)	1.00 mile	No	0
CA Registered Hazardous Waste Transporter Database (HWT)	0.25 mile	No	0
CA Mines Site Location Listing (MINES)	ТР	No	0
Sacramento Co. ML	0.25 mile	No	9
CA Medical Waste Management Program Listing (MMWP)	0.25 mile	No	0
CA NPDES Permits Listing (NPDES)	ТР	No	0
CA Pesticide Regulation Licenses Listing (PEST LIC)	ТР	No	0
CA Certified Processors Database (PROC)	0.50 mile	No	0
CA SWRCB Proposition 65 Records (Notify 65)	1.00 mile	No	2
CERS	ТР	Yes	1
CA UIC Listing (UIC)	ТР	No	0
CA Oil Wastewater Pits Listing (WASTEWATER PITS)	0.50 mile	No	0
CA Waste Discharge System (WDS)	ТР	No	0
CA Well Investigation Program Case List (WIP)	0.25 mile	No	0
EDR Proprietary Manufactured Gas Plants (EDR MGP)	1.00 mile	No	0
EDR Hist Auto	0.125 mile	No	0
EDR Exclusive Historical Cleaners (EDR Hist Cleaner)	0.125 mile	No	0
Recovered Government Archive Solid Waste Facilities List (RGA LF)	ТР	No	0
RGA LUST	ТР	No	0
TOTAL			0
Source: EDR, 2020 (Appendix A) TP = Target Property Sites may be listed in more than one database			

4.2 HAZARDOUS MATERIALS INVOLVEMENT

A regulatory agency database search was performed to identify locations of past and/or current hazardous materials involvement. Regulatory agency databases were searched for records of known storage tank sites and known sites of hazardous materials generation, storage, or contamination, or where violations

pertaining to storage, use, or disposal of hazardous materials have occurred. Databases were searched for sites and listings up to 1.0 mile from a point roughly equivalent to the center of Subject Property. Although a site may be listed within the database report, this does not mean the site is currently contaminated or will impact the environmental quality of the Subject Property and would be considered a REC. It should be noted that the database search is only as accurate as the data entered into the government agency-maintained databases and the date on which those databases were last updated. Installation of USTs or hazardous material releases, if not reported to the appropriate agency, would not be listed on any of the databases searched.

4.2.1 SUBJECT PROPERTY

The Subject Property is listed on the USEPA Facility Index System (FINDS) and California Environmental Reporting System (CERS) because pool and spa chemicals were stored on site (**Appendix E**). The facility was inspected in 2015 and 2018; no violations were reported. The Subject Property is also listed in a Sacramento County database as there is a T-Mobile West Corp cell tower.

4.2.2 ADJACENT PROPERTIES

Due to the urban location of the Subject Property, a large number of listed properties are within a 1.0-mile radius (**Appendix E**).

These database search radius found sites listed on the following databases: California Department of Toxic Substance and Control (DTSC), Site Mitigation and Brownfields Reuse Program's ENVIROSTOR List (2 sites); SWRCB and Tribal, Leaking Underground Storage Tank (LUST) List (3 sites); Cleanup Program Sites-Spills, Leaks, Investigations, and Cleanups (CPS-SLIC) (2 sites), Sacramento Co. CS List (1 site); Formerly Used Defense Sites (FUDS) (1 site); CalEPA Cortese (CORTESE) (2 sites); CalEPA Historic Cortese (HIST CORTESE) (1 site); Sacramento County Environmental Health Department – Master List SAC CO. ML (9 sites); and Proposition 65 Records (Notify 65) list (1 site). There were also two unmapped sites, one on the CPS-CLIC list and one on the Sacramento Co. CS list. However, a listing within a database does not necessarily mean a hazardous materials release occurred within the listed property.

The Christofer Oaks One site is located approximately 0.4 miles northwest of the Subject Property. The Christofer Oaks One site is listed on the LUST, Sacramento County CS, and HIST CORTESE databases for a spill with the following potential contaminants of concern: waste oil/motor/hydraulic/lubricating oil. According to the GeoTracker website, the contamination was limited to the soil. The site received closure status on July 29, 1994 (SWRCB, 2016). Given that the affected media was soil only and the closure status of the site, the Christofer Oaks One site constitutes an HREC that is not likely to pose a risk to the environmental quality of the Subject Property.

The Shell Service Station site is located approximately 0.3 miles east of the Subject Property, downgradient from the Subject Property. The Shell site is listed on the RCRA-SQG database for generating small quantities of ignitable hazardous waste, the LUST database for a gasoline spill, the UST database for a permitted underground storage tank, and several other databases. The LUST incident occurred in 2002 and remedial activities, including pumping of impacted groundwater and monitoring activities, began in 2003. Methyl tertiary butyl ether (MTBE) was detected in the onsite soils and groundwater, but more recent data indicates that impacts in soil were present as isolated occurrences and were limited in extent (Wayne Perry, 2009). Additionally, 2009 data indicated that MBTE concentrations in groundwater were below maximum contaminant levels at all monitoring wells (Wayne Perry, 2009). This LUST case was closed in April 2011. Due to the continued attenuation of contaminants, the limited extent of contaminants, and elevation lower than the Subject Property, this site does not pose a risk to human health or the environment at the Subject Property, and does not constitute a HREC.

The Calvada Food Sales Company is located approximately 1 mile southeast and is listed on the LUST, Sacramento County CS and ML, CERS, UST, Cortese, and Notify 65 databases for a solvent or non-petroleum hydrocarbon leak. The leak was reported in 1998, cleaned up in 2004 and the case was closed in 2007. Due to the completion of remedial actions that occurred on the site, the site's closure status, and the distance from the Subject Property, this site does not pose a risk to human health or the environment at the Subject Property and does not constitute a HREC.

The Discovery Plaza Shopping Center Site is located approximately 0.44 miles northeast of the Subject property, downgradient from the Subject Property and is listed on SWRCB's GeoTracker website as a closed spill case. According to the GeoTracker website, the leak was reported in January 1995. The potential contaminants of concern included tetrachloroethylene and trichloroethylene in groundwater at the site. Corrective actions, including groundwater monitoring, occurred on the site until a Certificate of Completion for remedial action and No Further Action (NFA) letter was issued by the County of Sacramento on March 31, 2011 (SWRCB, 2020). Due to the completion of remedial actions that occurred on the site, the site's closure status, and the location downgradient from the Subject Property, this site does not pose a risk to human health or the environment at the Subject Property and does not constitute a HREC.

Other sites consist of cellular towers, or businesses that store chemicals in compliance with applicable local, state, or federal regulations and are not likely to pose a risk to the environmental quality of the Subject Property. Additional sites in the vicinity of the Subject Property, as described in the EDR Report (**Appendix E**) and the SWRCB GeoTracker website, are located at distances greater than 0.6 miles from the Subject Property and have either been remediated and closed or do not have reported violations.

SECTION 5.0 FINDINGS AND CONCLUSIONS

This Phase I ESA was performed in conformance with the scope and limitations of ASTM Standard Practice E1527-13.

5.1 FINDINGS

Based on information gathered while conducting this Phase I ESA, the following environmental findings are provided:

- Chemicals are stored on site, as stated in the EDR report (**Appendix E**). The chemicals were properly stored and no chemical spills were observed, therefore these chemicals do not constitute a REC. There was some staining on the floors of the chemical storage room and laundry room.
- Additional staining, engine coolant or oil, was observed on the asphalt paved area consistent with use as a parking lot.

5.2 CONCLUSION

This Phase I ESA was prepared in conformance with the scope and limitations of ASTM Practice E 1527-13. Any exceptions to, or deletions from, this practice are described in **Section 1.0** of this report. Based on the site conditions during the December 22, 2020 site reconnaissance, owner and user questionnaires (**Appendix G**), and information in the EDR report (**Appendix E**), no RECs were identified on or in the immediate vicinity of the Subject Property that would likely pose a significant impact to the environmental integrity of the Subject Property. It is not likely that documented off-site listed hazardous materials sites pose a material risk to human health or the environment on the Subject Property, due to the defined nature of the contamination, previous remediation activities, and associated closed cases, and/or the distance involved. No additional subsurface hazardous materials investigations of the property are recommended at this time.

SECTION 6.0 REPORT AUTHORS AND REFERENCES

The undersigned declare to the best of their professional opinion that they meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312. Charlane Gross, Site Assessor, prepared this report under the professional supervision of Trenton Wilson, Environmental Toxicologist, who qualifies as an environmental professional (EP) as defined in the ASTM Standard E1527-13, and have the specific qualifications based on education, training, and experience to assess a property of the nature, and setting of the Subject Property.



REFERENCES

- American Society for Testing and Materials (ASTM) 2013. Practice E1527-13: "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.
- City of Sacramento, 2019. Planning and Development Code: Base Zones Map. Updated August 20, 2019, 2014. Available online at: <u>Sacramento_Zoning_34X44.pdf (cityofsacramento.org)</u>. Accessed December 2020.
- Environmental Data Resources, Inc. (EDR), 2020. Radius Map Report with GeoCheck, Inquiry No.6302266.2s, dated December 15, 2020.
- Federal Emergency Management Agency (FEMA), 2015. Flood Insurance Rate Map Number 06067C0157J. Effective June 16, 2015. Available online at: <u>https://msc.fema.gov/portal</u>. Accessed December 2020.
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- Wayne Perry, Inc., 2009. Shell Service Station Request for Site Closure. Submitted to Sacramento County Environmental Management Department, Hazardous Materials Division. Dated December 28, 2009.




HISTORICAL AERIAL PHOTOGRAPHS



2450 Natomas Park

2450 Natomas Park Sacramento, CA 95833

Inquiry Number: 6302266.8 December 15, 2020

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

Appendix D

EDR Aerial Photo Decade Package

Site Name:

Client Name:

12/15/20

2450 Natomas Park 2450 Natomas Park Sacramento, CA 95833 EDR Inquiry # 6302266.8

ANALYTICAL ENVIRONMENTAL SERV 1801 7th Street Sacramento, CA 95811 Contact: Charlane Gross



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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	
2006	1"=500'	Flight Year: 2006	USDA/NAIP	
1998	1"=500'	Acquisition Date: January 01, 1998	USGS/DOQQ	
1993	1"=500'	Acquisition Date: June 15, 1993	USGS/DOQQ	
1984	1"=500'	Flight Date: June 08, 1984	USDA	
1972	1"=500'	Flight Date: August 11, 1972	USDA	
1966	1"=500'	Flight Date: August 04, 1966	USGS	
1964	1"=500'	Flight Date: May 11, 1964	USDA	
1957	1"=500'	Flight Date: September 12, 1957	USDA	
1953	1"=500'	Flight Date: April 23, 1953	USDA	
1947	1"=500'	Flight Date: July 28, 1947	USGS	
1937	1"=500'	Flight Date: August 18, 1937	USDA	

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HISTORICAL TOPOGRAPHIC MAPS



2450 Natomas Park 2450 Natomas Park Sacramento, CA 95833

Inquiry Number: 6302266.4 December 15, 2020

EDR Historical Topo Map Report with QuadMatchTM



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

Appendix D

Site Name:

Client Name:

12/15/20

2450 Natomas Park 2450 Natomas Park Sacramento, CA 95833 EDR Inquiry # 6302266.4 ANALYTICAL ENVIRONMENTAL SERVI 1801 7th Street Sacramento, CA 95811 Contact: Charlane Gross



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by ANALYTICAL ENVIRONMENTAL SERVICES were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.



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Topo Sheet Key This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets





7.5-minute, 24000 2012

1992 Source Sheets









Taylor Monument 2012 7.5-minute, 24000



1992 7.5-minute, 24000 Aerial Photo Revised 1992 o East Sacrar

Rio Linda 1992 7.5-minute, 24000 Aerial Photo Revised 1992

7.5-minute, 24000 Aerial Photo Revised 1992

Sacramento West

1992

1980 Source Sheets



Sacramento East 1980 7.5-minute, 24000 Aerial Photo Revised 1978

1980 7.5-minute, 24000 Aerial Photo Revised 1978

aylor Monument

1975 Source Sheets







1975 7.5-minute, 24000 Aerial Photo Revised 1975









Sacramento West 1980 7.5-minute, 24000 Aerial Photo Revised 1978

Rio Linda 1980 7.5-minute, 24000 Aerial Photo Revised 1978

Sacramento West



1975 7.5-minute, 24000 Aerial Photo Revised 1975

Rio Linda

Sacramento East

Taylor Monument 1975 7.5-minute, 24000 Aerial Photo Revised 1975

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1967 Source Sheets



Taylor Monument 1967 7.5-minute, 24000 Aerial Photo Revised 1966

1954 Source Sheets



Sacramento East 1954 7.5-minute, 24000 Aerial Photo Revised 1947

1949, 1950 Source Sheets



Sacramento East 1949 7.5-minute, 24000 Aerial Photo Revised 1947

1948 Source Sheets



Sacramento West 1967 7.5-minute, 24000 Aerial Photo Revised 1966



Sacramento East 1967 7.5-minute, 24000 Aerial Photo Revised 1966



Rio Linda 1967 7.5-minute, 24000 Aerial Photo Revised 1966



1949 7.5-minute, 24000 Aerial Photo Revised 1947

Taylor Monument 1950

7.5-minute, 24000

Aerial Photo Revised 1947



Rio Linda 1950 7.5-minute, 24000 Aerial Photo Revised 1947



Sacramento West 1948 7.5-minute, 24000 Aerial Photo Revised 1947



Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1911, 1915, 1916 Source Sheets





Arcade 1911 7.5-minute, 31680

Brighton 1911 7.5-minute, 31680

Davisville

15-minute, 62500

1907



Elkhorn Weir 1915 7.5-minute, 31680



Lovdal 1916 7.5-minute, 31680

1902, 1907 Source Sheets



Fairoaks 1902 15-minute, 62500

1893 Source Sheets



Sacramento 1893 30-minute, 125000

1892 Source Sheets



Sacramento 1892 30-minute, 125000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1891 Source Sheets



Sacramento 1891 30-minute, 125000









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0 Miles

0.25

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This report includes information from the following map sheet(s).





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1.5



NE, Rio Linda, 1980, 7.5-minute SE, Sacramento East, 1980, 7.5-minute NW, Taylor Monument, 1980, 7.5-minute

W

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S

SE

2450 Natomas Park
2450 Natomas Park
Sacramento, CA 95833
ANALYTICAL ENVIRONMENTAL SERVI

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SITE NAME:	2450 Natomas Park
ADDRESS:	2450 Natomas Park
	Sacramento, CA 95833
CLIENT:	ANALYTICAL ENVIRONMENTAL SERVI

Appendix D 6302266 - 4





SITE NAME:	2450 Natomas Park
ADDRESS:	2450 Natomas Park
	Sacramento, CA 95833
CLIENT:	ANALYTICAL ENVIRONMENTAL SERVI

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This report includes information from the following map sheet(s). 0 Miles 0.25 0.5 1 NW Ν NE TP, Lovdal, 1916, 7.5-minute NE, Arcade, 1911, 7.5-minute SITE NAME: 2450 Natomas Park ADDR SE, Brighton, 1911, 7.5-minute NW, Elkhorn Weir, 1915, 7.5-minute

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ESS:	2450 Natomas Park	
	Sacramento, CA 95833	
IT:	ANALYTICAL ENVIRONMENTAL SERVI	

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1.5



This report includes information from the following map sheet(s). 0 Miles 0.25 0.5 1 1.5 NW Ν NE TP, Davisville, 1907, 15-minute E, Fairoaks, 1902, 15-minute SITE NAME: 2450 Natomas Park 2450 Natomas Park ADDRESS: Sacramento, CA 95833 W ANALYTICAL ENVIRONMENTAL SERVI CLIENT:

SW

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Appendix D 6302266 - 4



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SE


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SW

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SANBORN NO COVERAGE DOCUMENT



2450 Natomas Park 2450 Natomas Park Sacramento, CA 95833

Inquiry Number: 6302266.3 December 15, 2020

Certified Sanborn® Map Report



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Appendix D

12/15/20 Certified Sanborn® Map Report Site Name: Client Name: 2450 Natomas Park ANALYTICAL ENVIRONMENTAL SERVI 1801 7th Street 2450 Natomas Park Sacramento, CA 95833 Sacramento, CA 95811 EDR Inquiry # 6302266.3 Contact: Charlane Gross

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by ANALYTICAL ENVIRONMENTAL SERVICES 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 # 175E-4CFA-ADBE NA

PO#

2450 Natomas Park - 220554 Project

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 #: 175E-4CFA-ADBE

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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CITY DIRECTORY IMAGE REPORT

2450 Natomas Park

2450 Natomas Park Sacramento, CA 95833

Inquiry Number: 6302266.5 December 15, 2020

The EDR-City Directory Abstract



6 Armstrong Road Shelton, CT 06484 800.352.0050 www.edrnet.com

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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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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.

Source	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	Source Image
Cole Information Services	х	Х	х	-
Cole Information Services	Х	х	Х	-
Cole Information Services	Х	х	Х	-
Haines Company, Inc.	Х	х	х	-
Cole Information Services	Х	х	х	-
SBC PACIFIC BELL	-	-	-	-
Cole Information Services	Х	х	х	-
Haines & Company	Х	х	х	-
Pacific Bell	Х	х	х	-
Cole Information Services	Х	х	х	-
Pacific Bell	-	х	Х	-
R. L. Polk & Co.	-	-	-	-
	Source Cole Information Services Cole Information Services Cole Information Services Haines Company, Inc. Cole Information Services SBC PACIFIC BELL Cole Information Services Haines & Company Pacific Bell Cole Information Services Pacific Bell R. L. Polk & Co.	SourceTPCole Information ServicesXCole Information ServicesXCole Information ServicesXHaines Company, Inc.XCole Information ServicesXSBC PACIFIC BELL-Cole Information ServicesXHaines & CompanyXPacific BellXCole Information ServicesXPacific Bell-Cole Information ServicesXPacific Bell-R. L. Polk & Co	SourceIPAdjoiningCole Information ServicesXXCole Information ServicesXXCole Information ServicesXXHaines Company, Inc.XXCole Information ServicesXXSBC PACIFIC BELLCole Information ServicesXXHaines & CompanyXXPacific BellXXCole Information ServicesXXPacific BellXXPacific Bell-XR. L. Polk & Co	SourceIPAdjoiningText AbstractCole Information ServicesXXXCole Information ServicesXXXCole Information ServicesXXXHaines Company, Inc.XXXCole Information ServicesXXXSBC PACIFIC BELLCole Information ServicesXXXHaines & CompanyXXXPacific BellXXXPacific Bell-XXPacific Bell-XXPacific Bell-XXR. L. Polk & Co

EXECUTIVE SUMMARY

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
1980	R. L. Polk & Co.	-	-	-	-
1975	R. L. Polk Co.	-	-	-	-
1970	Sacramento Directory Co.	-	-	-	-
1966	Sacramento Directory Co.	-	-	-	-
1965	Sacramento Directory Co. Publishers	-	-	-	-
1961	Sacramento Directory Co.	-	-	-	-
1957	Sacramento Directory Co.	-	-	-	-
1956	Sacramento Directory Co.	-	-	-	-
1952	Sacramento Directory Co.	-	-	-	-
1947	Sacramento Directory Co.	-	-	-	-
1942	Sacramento Directory Co.	-	-	-	-
1937	Sacramento Directory Co.	-	-	-	-
1933	Sacramento Directory Co.	-	-	-	-
1928	Sacramento Directory Co.	-		-	-
1923	Sacramento Directory Co.	-	_	-	-
1920	Sacramento Directory Co.	-	-		-

TARGET PROPERTY INFORMATION

ADDRESS

2450 Natomas Park Sacramento, CA 95833

FINDINGS DETAIL

Target Property research detail.

NATOMAS PARK DR

2450 NATOMAS PARK DR

<u>Year</u>	<u>Uses</u>	Source
2017	NATOMAS RACQUET CLUB	Cole Information Services
2014	NATOMAS RACQUET CLUB	Cole Information Services
2009	NATOMAS ROCKET CLUB	Cole Information Services
	SPARE TIME INC	Cole Information Services
2005	NATOMAS RACQUET	Haines Company, Inc.
2004	NATOMAS CAF	Cole Information Services
	TOPAZ DELONG	Cole Information Services
1999	NATOMAS RACQUET CLUB	Cole Information Services
	NATOMAS RACQUET CLB	Haines & Company
1995	NATOMAS RACQUET CLUB	Pacific Bell
1994	NATOMAS RACQUET CLUB	Cole Information Services
	SACRAMENTO TAEKWONDO CLUB	Cole Information Services

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

CAPITAL PARK DR

1733 CAPITAL PARK DR

1994 RODRIGUEZ, JUAN F

1765 CAPITAL PARK DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	GILMER PRUITT	Cole Informati
	ROCHELLE WILSON	Cole Informati
	CIAMACK AZIMPOUR	Cole Informati
	BONNIE BOYDSTUN	Cole Informati
	TERESA TUITLE	Cole Informati
	LAWRENCE LACEY	Cole Informati
	FRANKLIN BAKER	Cole Informati
	LUCAS HOBBS	Cole Informati
2014	GEORGE HILLMAN	Cole Informati
	GILMER PRUITT	Cole Informati
	ROCHELLE WILSON	Cole Informati
	ANGIE MARTIN	Cole Informati
	LAWRENCE LACEY	Cole Informati
	TERESA TUITLE	Cole Informati
	PHILLIP CADE	Cole Informati
	ROBERT VEGA	Cole Informati
	ENRIQUE TOBOLA	Cole Informati
2009	LAWRENCE LACEY	Cole Informati
	SATI BOWMAN	Cole Informati
	ALEXANDRIA KLEMM-GREEN	Cole Informati
	KAVITA SHAH	Cole Informati
	KHALEEL UMAR	Cole Informati
	MATIAS CISNEROS	Cole Informati
2005	APARTMENTS HERNANDEZAlejandro	Haines Comp
	HICKMAN Failh	Haines Comp
	JAEGER Grechen	Haines Comp
	LACEY Lawrnce E	Haines Comp

<u>Source</u>

Cole Information Services

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<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	WLEYWm	Haines Compa
	ELMENDORF Kevin	Haines Compar
	HULVER Robin	Haines Compa
2004	FAITH HICKMAN	Cole Information
	PRISCILL HUTCHINSON	Cole Information
	MARK SCHNELL	Cole Information
	A RATHORE	Cole Information
	GREG WALKER	Cole Information
	LAWRENCE LACEY	Cole Information
	BLANCA GONZALEZ	Cole Information
	JOSE GONZALEZ	Cole Information
	ISAAC WOODALL	Cole Information
	SUSAN BORING	Cole Information
1999	KHALEEL UMAR	Cole Information
	LAWRENCE LACEY	Cole Information
	SATI BOWMAN	Cole Information
	KAVITA SHAH	Cole Information
	MATIAS CISNEROS	Cole Information
	ALEXANDRIA KLEMM-GREEN	Cole Information
	JAMES Galen	Haines & Comp
	SCHNELL Mark	Haines & Comp
	WOODALL Isaac	Haines & Comp
1995	WHITE Patti & Norm	Pacific Bell
1991	Leppert Rob	Pacific Bell
	Martinez R	Pacific Bell
1767 CA	PITAL PARK DR	
<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	HUGO ALFARO	Cole Information
	MIKAYLA HARWIG	Cole Information
	STACY ABAD	Cole Information
	ANGELISHA JOHNSON	Cole Information
	ANTHONY MAHONE	Cole Information
	RUTH LARM	Cole Information
2014	MIRIAH BLACK	Cole Information
	MATTYE MCCONAUGHEAD	Cole Information
	HUGO ALFARO	Cole Information
2009	EVANGELINE WILLIAMS	Cole Information

ROBIN HULVER

ny, Inc. ny, Inc. ny, Inc. n Services Services n Services 1 Services n Services n Services bany any bany

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<u>Year</u>	<u>Uses</u>	
2009	ORIANNA BRADLEY	
	KENNETH POWELL	
	BARB SCHULZ	
2004	KEVIN ELMENDORF	
	ROY LOBO	
	MICHAELLE DAVIS	
	RENE CARRILLO	
	JARED ELMEDORF	
1999	KENNETH POWELL	
	ORIANNA BRADLEY	
	BARB SCHULZ	
	EVANGELINE WILLIAMS	
	WILLIAM COBB	
	ROBIN HULVER	
	DOOLITTLE John	
1995	HICKMAN Mark & Kim	
	HARRIS Blanche	
	BRADLEY J B	
1769 CAF	PITAL PARK DR	

Source

Cole Information Services Cole Information Services Cole Information Services **Cole Information Services Cole Information Services** Cole Information Services Cole Information Services **Cole Information Services** Cole Information Services Cole Information Services Haines & Company Pacific Bell Pacific Bell Pacific Bell

Source

Cole Information Services **Cole Information Services Cole Information Services** Cole Information Services Cole Information Services **Cole Information Services Cole Information Services Cole Information Services Cole Information Services** Cole Information Services **Cole Information Services Cole Information Services**

2017 J PRASAD DASIA DAVIS SHARON LUCERO STACY MAY CAMERON MOHRMANN JEFFREY RAGER JOY PEREZ DANIEL ARCHULETA BARBARA CLARKE EDITH ALLEN AJ MARTIN PATRICIA MOORE 2014 FREDRICK RATHBUN **BARBARA CLARKE** DANIEL ARCHULETA SANDRA HERNANDEZ JACQUELYN SOREMAN

SARAH JACOBS

<u>Year</u>

<u>Uses</u>

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	JULIANA CABELLO	Cole Information Services
	DONTESIA PERKINS	Cole Information Services
	ISHMAEL TORRES	Cole Information Services
2009	DAISY MALDONADO	Cole Information Services
	REGINA GADLIN	Cole Information Services
	SHARON LUCERO	Cole Information Services
	TRICIA TAYLOR	Cole Information Services
	THE RIVER CITY GRILL	Cole Information Services
	CHRISTINA DEANGELO	Cole Information Services
	EUGENE GARCIA	Cole Information Services
	KATHLEEN FEULING	Cole Information Services
	JOY TORRES	Cole Information Services
2005	DEMSKEAimee	Haines Company, Inc.
	CLARKE CLARKEBarbar	Haines Company, Inc.
	APARTMENTS	Haines Company, Inc.
	FEUUNG Kathleen	Haines Company, Inc.
	PAGEGurpreet SADYJessic	Haines Company, Inc.
2004	DONNETT SCOTT	Cole Information Services
	SUSAN JENSON	Cole Information Services
	ANDREW QURESHI	Cole Information Services
	KATHLEEN FEULING	Cole Information Services
	THOMAS CRUZ	Cole Information Services
	JOHN LUCERO	Cole Information Services
	JENEE MITCHELL	Cole Information Services
	BARBARA CLARKE	Cole Information Services
1999	KATHLEEN FEULING	Cole Information Services
	EUGENE GARCIA	Cole Information Services
	CHRISTINA DEANGELO	Cole Information Services
	VIVIAN MARTINEZ	Cole Information Services
	TRICIA TAYLOR	Cole Information Services
	JOY TORRES	Cole Information Services
	SHARON LUCERO	Cole Information Services
	REGINA GADLIN	Cole Information Services
	MEFFERD Scott A	Haines & Company
1995	VEGA Francisco	Pacific Bell
	KINYON Scott L	Pacific Bell
1991	Guerra Sylvia	Pacific Bell
	Henry Orlando & Marcia	Pacific Bell

Year Uses

1991 Jemmott Tim Knox Ken Powe J L Rhodes Jessie Rhodes Lee & Myra P O Box Temple Creation Arellano Hector & Donna

1771 CAPITAL PARK DR

<u>Year</u>	<u>Uses</u>
2017	MELISSA JAMISON
2014	LOUIS BUFFINGTON
	CHARLES ALLISON
2009	EVELYN MOORE
2005	FERNANDEZGor
	MAUKS
	MAUKD
2004	GLORIA FERNANDEZ
	GEORGIA RUISENOR
1999	EVELYN MOORE
	XXXX
1995	STEM Wayne E
1991	Flonnov Carol

1773 CAPITAL PARK DR

<u>Year</u>	<u>Uses</u>
2017	JANICE MORRIS
	JAMAR JONES
	DAISIE BELITSIS
	HENRY HAMILTON
	THOMAS WILLIAMS
	ALAN JOHNSON
2014	DAISIE BELITSIS
	MICHAEL WESSON
	EDWARD BRACY
	DRASHTI PUNJABI
	JEWAN CAESAR
	JONI GOMEZ
	JAMES KROEKER

<u>Source</u>

Pacific Bell
Pacific Bell

<u>Source</u>

Cole Information Services Cole Information Services Cole Information Services Cole Information Services Haines Company, Inc. Haines Company, Inc. Haines Company, Inc. Cole Information Services Cole Information Services Haines & Company Pacific Bell Pacific Bell

<u>Source</u>

Cole Information Services Cole Information Services

<u>Year</u>	<u>Uses</u>	<u>Sou</u>
2014	BRENDA ARMSTEAD	Cole
2009	EDUARDO PEREZ	Cole
	S SNELL	Cole
	LAZERIC SANDERS	Cole
	MICHAEL WHITE	Cole
2005	MASSENGALEDave	Hain
	NORBIGA Matthew	Hain
	LOPEZJ	Hain
2004	SARINA LISH	Cole
	CAROL TROUSDALE	Cole
	JONATHAN EDWARDS	Cole
	MOISES ACEVES	Cole
	JEANETTE LOPEZ	Cole
1999	EDUARDO PEREZ	Cole
	S SNELL	Cole
	LAZERIC SANDERS	Cole
	MICHAEL WHITE	Cole
1995	GIBSON R A	Paci
1994	TUNSTALL, JAMES	Cole
1991	Martin Carlos	Paci
	Szutowicz Jamie	Paci
	Tayag B	Pacit
	Tunstall James	Pacif
1775 CA	PITAL PARK DR	
<u>Year</u>	<u>Uses</u>	<u>Sou</u>
2017	JOHNNY TURNER	Cole
	KIM JEFFERSON	Cole
	KRISTINA GARRISON	Cole
	RAYMOND SMITH	Cole
	MARTY KAYLER	Cole
	DARRELL PETERS	Cole
	CHELSEA HARKEY	Cole
2014	NISHA ELDER	Cole
	MICHELLE STANDRIDGE	Cole
	LEILANI EMELIO	Cole
	KIM FOSTER	Cole
	YANGLEE VANG	Cole
	DAVID STONES	Cole

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<u>Year</u>	<u>Uses</u>	<u>S</u>
2014	KRISTA WILSON	С
	URMI BARMAN	С
	RAYMOND SMITH	С
2009	B MITCHELL	Co
	RAYMOND SMITH	С
	MORGAN DEISSROTH	С
	NICOLAS DAMUTH	С
	BONNIE BLADES	С
	SALVADOR DUENAS	Co
2005	ANDERSEN Pa 2y	Ha
	DAMUTH Ncolas	Ha
	TRWUJILLOCrist Ma	Ha
2004	BERTA ANAYA	Co
	JEFFREY LEWIS	Co
	H GOLD	Co
	MARIA PAMBID	Co
	ABHIJIT ROYBARMAN	C
	NICOLAS DAMUTH	Co
1999	B MITCHELL	C
	RAYMOND SMITH	Co
	MORGAN DEISSROTH	Co
	NICOLAS DAMUTH	Co
	BONNIE BLADES	С
	SALVADOR DUENAS	С
	OZGUL Sener	Ha
	HULTBERG James D	Ha
1995	HULTBERG James D	Pa
1991	Ferrell Karen	Pa
	Cooper Ron	Pa
1777 CAF	PITAL PARK DR	
<u>Year</u>	<u>Uses</u>	<u>S</u>

2017

7 CHARLES BLACKMON CHRISTOPHER BROOKS BENJAMIN MARSHALL DARION MILLHOUSE LINDETTE PORTER HOLLY HICKEY QUENTIN STRICKNER

<u>Source</u>

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<u>Source</u>

Cole Information Services Cole Information Services

<u>Year</u>	<u>Uses</u>
2017	NATALIYA ANDRUSYAK
	VANICE COLBERT
	KAREN METCALF
2014	LEILA MENDEZ
	LINDETTE PORTER
	DARION MILLHOUSE
	NIKKI CORNETT
	SANTANA CHRISTINA
	JEVON PENNANT
	KAREN METCALF
	BRIAN HEINZ
	ROSEMARIE TRIPP
	BUTLER ERICA
	ERICKA BUTLER
	CAROLYN SORIA
2009	GONZALO DIAZ
	GREG COLVER
	KAREN EASTBURN
	DANIELLE EATON
	EDWARD METCALF
	CHRIS GLADIN
	CHRIS LUNA
	RACHEL CHAMBERS
	CLARA GRAY
2005	XXXX
2004	JASON HALL
	THOMAS SEITH
	LEONARD THOMAS
	NATE KNIGHT
	TRACY STRINGER
	PENNI DAVILA
	ERIN BENMETT
	RICHARD HAWKINS
	DAVID STANLEY
	DUSTIN LIPPINCOTT
	DUSTY FORDE
	RUBEN SALAZAR
	JOHN SMILEY

<u>Source</u>

Cole Information Services Cole Information Services Cole Information Services Cole Information Services **Cole Information Services** Cole Information Services Cole Information Services **Cole Information Services Cole Information Services Cole Information Services** Cole Information Services **Cole Information Services Cole Information Services** Haines Company, Inc. **Cole Information Services Cole Information Services**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	CRAIG QUEZADA	Cole Infor
	EMMANUEL MCCOMBS	Cole Infor
	GEORGE GONZALEZ	Cole Infor
	SHANT APEKIAN	Cole Infor
	JUAN GUTTIERREZ	Cole Infor
1999	DANIELLE EATON	Cole Infor
	KAREN EASTBURN	Cole Infor
	GREG COLVER	Cole Infor
	GONZALO DIAZ	Cole Infor
	CLARA GRAY	Cole Infor
	CHRIS GLADIN	Cole Infor
	CHRIS LUNA	Cole Infor
	EDWARD METCALF	Cole Infor
	VARADARAJAN S	Haines &
	MCCOMBS Lilly B	Haines &
	GYANMOTE Surender	Haines &
1995	PASCUAL Remigio T	Pacific Be
	KANG Jung Soo	Pacific Be
	HECKENBERG Bret & Julie	Pacific Be
	CHAPA Art	Pacific Be
1994	CHAPA, ART	Cole Infor
	LINVILLE, HEATHER	Cole Infor
	PASCUAL, REMIGIO T	Cole Infor
	MERCADO, LUIS	Cole Infor
1991	Allen I	Pacific Be
	Khaira Ravindar S	Pacific Be
1779 CA	PITAL PARK DR	
<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	MICHELLE SNELLING	Cole Infor
	GLORY HILES	Cole Infor
	JEREMY DYKSTRA	Cole Infor
	RONALDO MONCADA	Cole Infor
	JAYSON TRINIDAD	Cole Infor
	DANIELLE WOLDRIDGE	Cole Infor
	SAMUEL PETERSON	Cole Infor
	CANDAI BULLARD	Cole Infor
2014	DANIELLE WOLDRIDGE	Cole Infor
	ALFRED SMYTHE	Cole Infor

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Cole Information Services Cole Information Services

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	MICHAEL WALLACE	Cole Information Services
	JOHN MCALLISTER	Cole Information Services
	KAREN FOSTER	Cole Information Services
	THEP PHOMSOPHA	Cole Information Services
	ANGELA SMITH	Cole Information Services
	CANDAI BULLARD	Cole Information Services
	THANH HOANG	Cole Information Services
2009	LASHAWN BOYKINS	Cole Information Services
	DAVID WALLACE	Cole Information Services
	ANGELA CASIMIRO	Cole Information Services
	VERONICA SALGADO	Cole Information Services
	LORA SANAME	Cole Information Services
	THOMAS FROBERG	Cole Information Services
	KAREN FOSTER	Cole Information Services
2005	GRESHAMChri SALGADO Veronica	Haines Company, Inc.
	CARROLLRichard	Haines Company, Inc.
2004	RICH CARROLL	Cole Information Services
	VERONICA SALGADO	Cole Information Services
	JOHN HENNECKE	Cole Information Services
	JEREMY DYKSTRA	Cole Information Services
	MARCELLA STONE	Cole Information Services
	MICHAEL KEY	Cole Information Services
	VERLAN PARKS	Cole Information Services
	JOSHUA STEVENS	Cole Information Services
	ROBERT HALL	Cole Information Services
	PAUL NETHERCULS	Cole Information Services
1999	LORA SANAME	Cole Information Services
	THOMAS FROBERG	Cole Information Services
	KAREN FOSTER	Cole Information Services
	VERONICA SALGADO	Cole Information Services
	DAVID WALLACE	Cole Information Services
	LASHAWN BOYKINS	Cole Information Services
	NEZHURA Sergey	Haines & Company
1991	Wright Donald & Joanne	Pacific Bell
	Reyes Idiana	Pacific Bell
	ONeal Patricia & Dennis	Pacific Bell
	Burdick Michael	Pacific Bell

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6302266-5

1781 CAPITAL PARK DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	SONDRA LEE	Cole Information Services
	CLIFTON BLOCK	Cole Information Services
	MASON PAINTER	Cole Information Services
	GABRIELA MACIEL	Cole Information Services
	TANYA GARBOUSHIAN	Cole Information Services
	DONALD HATCH	Cole Information Services
	TARYN SAVAGE	Cole Information Services
2014	ECHO WALLACE	Cole Information Services
	CLIFTON BLOCK	Cole Information Services
	BARBARA TOURDOT	Cole Information Services
	SAMIRA TAYLOR	Cole Information Services
	SONDRA LEE	Cole Information Services
2009	DOUGLASS THORNE	Cole Information Services
	ERIC CLOVER	Cole Information Services
	TERESA JOHNSON	Cole Information Services
2005	SOMAN Kadar	Haines Company, Inc.
	PONZI Apl	Haines Company, Inc.
2004	D JONES	Cole Information Services
	ALVIN VALENTINE	Cole Information Services
	DOTTIE TARLETON-RUSH	Cole Information Services
	MAYA JOHNSON	Cole Information Services
1999	ERIC CLOVER	Cole Information Services
	DOUGLASS THORNE	Cole Information Services
	TERESA JOHNSON	Cole Information Services
	SCHMIDT Terry L	Haines & Company
1995	MALHOTRA Braveen & Romee	Pacific Bell
1994	KERR, ROBERT	Cole Information Services
	CASTILLO, SYLVIA	Cole Information Services
1991	Abukhalil Hashem	Pacific Bell
	Castillo Sylvia	Pacific Bell
1783 CA	PITAL PARK DR	
<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	SAFET PIZOVIC	Cole Information Services

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DATRA BENJAMIN

JEANETTE JACKSON ANTHONY HAMPTON **Cole Information Services Cole Information Services Cole Information Services Cole Information Services Cole Information Services**

<u>Year</u>	<u>Uses</u>
2014	MANUEL COBIAN
	DWAN DANSBY
	JEANETTE JACKSON
	CASSANDRA CARLS
	DESTINY RICH
	PATRICK FRETLOW
2009	GAYE ALEXANDER
	JACKSON MJJ ENTERPRISE
	PATRICK FRETWELL
	FAHIMA HESSABI
	OBDULIA ALVAREZ
	ANDREA BAZEMORE
	SHARON PRESSBURG
2005	ALVAREZObdofla
2004	JOSE ESPINOSA
	ROBIN CARR
	VIKTIN RASP
	PATRICK FRETWELL
	SCOTT HEARLD
	KIM SMITH
	KIM HASENMEYER
	LOUIS ARCHULETA
	JENNIFER CASIAS
	B STAPLES
	TERESA ALVARADO
	OBDULIA ALVAREZ
1999	FAHIMA HESSABI
	SHARON PRESSBURG
	OBDULIA ALVAREZ
	GAYE ALEXANDER
	PATRICK FRETWELL
	ANDREA BAZEMORE
	APARTMENTS
	LILLEDA Miguel Angel
	FORTENBERRY J
	HOWE Kelley
	LEACH Jennifer
	LEACH Robert

<u>Source</u>

Cole Information Services Cole Information Services Cole Information Services Cole Information Services **Cole Information Services** Cole Information Services Haines Company, Inc. **Cole Information Services Cole Information Services Cole Information Services** Cole Information Services **Cole Information Services Cole Information Services** Cole Information Services **Cole Information Services** Haines & Company Haines & Company

<u>Year</u>	<u>Uses</u>
1999	WALES Michelle
1995	COOK Lyle W
1994	CRUZ, S
1785 CAP	ITAL PARK DR
<u>Year</u>	<u>Uses</u>
2017	KERI BARONI
	LUIS CASTREJON
	RITA DEROUACEAU
	TODD SURBER
	LORNA COON
	DONNA JOHNSON
2014	RITA DEROUACEAU
	KERI BARONI
	CYNTHIA GUTIERREZ
	EJAM
	LORNA COON
	JEFFREY HOBBS
	ROESHAN PRICHARD
	FREDERICK MARTIN
2009	KENNETH MCFADDEN
	SHARAYA HOPKINS
	LOUIE MORENO
	NICOLE TRAVIS
	SEGUNDO CONCEPCION
	LUIS PORRAS
	RAULORTIZ
	M PERRY
	JACQELINE GOOCH
	MIRANDA AUTREY
	RITA DEROUACEAU
	ALMON COON
2005	AUTREY Miranda
	APARTMENTS
2004	EVERGREEN CRAFTS & FLRL IMPRT
	KENNETH MCFADDEN
	FRANCISCO RODRIGUEZ
	OLGA DAVEN
	DIANA WHITE

<u>Source</u>

Haines & Company Pacific Bell Cole Information Services

<u>Source</u>

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<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	LORNA COON	Cole Information Services
	RITA DEROUACEAU	Cole Information Services
	ANDY HARMON	Cole Information Services
	MARCUS FARROW	Cole Information Services
	MIRANDA AUTREY	Cole Information Services
	ROBERT MCARTHUR	Cole Information Services
	RICHARD HOFFMAN	Cole Information Services
	LINDA BLANKENSHIP	Cole Information Services
1999	SEGUNDO CONCEPCION	Cole Information Services
	NICOLE TRAVIS	Cole Information Services
	LOUIE MORENO	Cole Information Services
	SHARAYA HOPKINS	Cole Information Services
	MARK COVERT	Cole Information Services
	LUIS PORRAS	Cole Information Services
	RITA DEROUACEAU	Cole Information Services
	MIRANDA AUTREY	Cole Information Services
	JACQELINE GOOCH	Cole Information Services
	M PERRY	Cole Information Services
	ALMON COON	Cole Information Services
	KENNETH MCFADDEN	Cole Information Services
	JAMES MAYFIELD	Cole Information Services
	RAUL ORTIZ	Cole Information Services
	BAKER Patrick	Haines & Company
	WILLIAMS Larry	Haines & Company
	WILLIAMS Larry	Haines & Company
	EVANS Randy A	Haines & Company
1995	EVANS Randy A	Pacific Bell
	RAPP Ron G	Pacific Bell
	MASSIRIAN Lisa A	Pacific Bell
1991	Consulo Mike	Pacific Bell
	Hill Conway	Pacific Bell

CREEKSIDE OAKS DR

1750 CREEKSIDE OAKS DR

<u>Year</u>	<u>Uses</u>
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MEDSTAT NETBRAIN TECHNOLOGIES INC IMAGE SOURCE

<u>Source</u>

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<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	NET BRAIN TECHNOLOGIES	Cole Information Services
	BICKMORE RISK SERVICES	Cole Information Services
	A EMERGENCY LOCKSMITH	Cole Information Services
	ANIXTER	Cole Information Services
	NEW HORIZONS	Cole Information Services
2014	CREEKSIDE CAFE	Cole Information Services
	BRANDYWINE REALTY TRUST	Cole Information Services
	MEDSTAT	Cole Information Services
	NET BRAIN TECHNOLOGIES	Cole Information Services
	BICKMORE RISK SERVICES	Cole Information Services
	REACHLOCAL	Cole Information Services
	NEW HORIZONS	Cole Information Services
2009	MEDSTAT	Cole Information Services
	NEW HORIZONS COMPUTER LEARNING CENTE	Cole Information Services
	CREEKSIDE CAFE	Cole Information Services
2005	ECONOMICAND	Haines Company, Inc.
	PLANNING SYSTEMS MEDSTAT	Haines Company, Inc.
	NATOMAS BASIN	Haines Company, Inc.
	CONSERVANCY NOLTEASSOCIATES	Haines Company, Inc.
	BASIN CNSRVNCY	Haines Company, Inc.
	INC SA CTYNATOMAS	Haines Company, Inc.
	CREEKSIDE CAFE	Haines Company, Inc.
2004	CREEKSIDE CAFE	Cole Information Services
	ECONOMIC & PLANNING SYSTEMS INC	Cole Information Services
	THE MEDSTAT GROUP D K D CO	Cole Information Services
	NOLTE ASSOCS INC	Cole Information Services
	C YEUNG	Cole Information Services
1999	ANTHEM HEALTH SACRAMENTO	Cole Information Services
	ACORDIA BENEFIT SERVICES OF NORTHERN CALIFORNIA	Cole Information Services
	RUDOLPH & SLETTEN INCORPORATED	Cole Information Services
	ECONOMIC & PLANNING SYSTEMS	Cole Information Services
	NOLTE & ASSOCIATES	Cole Information Services
	CREEKSIDE CAFE	Cole Information Services
	NOLTE AND ASSOCIATES INCORPORATED	Cole Information Services
	ACCORDIA REEVES	Cole Information Services
	ACORDIA THE REEVES COMPANY	Haines & Company
	CREEKSIDE CAFE	Haines & Company

<u>Year</u>	<u>Uses</u>	
1999	ECONOMIC & PLANNING SYSTEMS	
	NOLTE AND ASSOCTS	
	NOLTE & ASSOCIATES	
	RUDOLPH & SLETTEN INC	
	ACCORDIA REEVES	
1994	RUDOLPH & SLETTEN INC	
	ECONOMIC & PLANNING SYSTEMS	
	NOVA CARE	
	CUMAC SERVICE CORP	
1755 CRE	EKSIDE OAKS DR	
<u>Year</u>	<u>Uses</u>	
2017	DONOHOE & COMPANY	
	CHARTER BRIAN LAW OFFICE	
	TMOBILE	
	CALFARM INSURANCE AGENCY	
	HARDER & COMPANY COMMUNITY RESEARCH	

STATE OF CALIFORNIA

LAURIA TOKUNAGA GATES & LINN LLP

LAURIA TOKUNAGA GATES & LIN 2014 HEALTHONE STAFFING

> CALIFORNIA LEAGUE OF FOOD PROCESSORS DONOHOE & COMPANY CHARTER BRIAN LAW OFFICE OF THOMPSON NOBLE CO LLP CALFARM INSURANCE AGENCY STATE OF CALIFORNIA LAURIA TOKUNAGA GATES & LINN

T MOBILE SACRAMENTO RBO

EVERGREEN MANAGEMENT CO

CIT GROUP SALES FINANCING

LAURIA TOKUNAGA GATES & LINN LLP

SELECT ADVISORS INC KADOYA RICHARD S

NOBLE WILLIAM P JR

KERZE DAVID P

LONDON PACIFIC LF & ANNUITY CO

2009

<u>Source</u>

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<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	MARCH DIMES BIRTH DEFECTS FOUNDATION	Cole Information Services
	THOMPSON NOBLE CO LLP	Cole Information Services
	CALIFORNIA SEISMIC SAFETY COMM	Cole Information Services
2005	THE KADOYA RICHARDS	Haines Company, Inc.
	MERIDIAN PACIFIC	Haines Company, Inc.
	ROSS CONSULTING	Haines Company, Inc.
	FOUNDATION INC EVERGREEN COMPANY	Haines Company, Inc.
	GROUP TAXPAYERS FOR DAVE	Haines Company, Inc.
	CASTSEISMICSAFETY	Haines Company, Inc.
	COMMSN	Haines Company, Inc.
	CALFARMINSURANCE AGENCY DELMARVA	Haines Company, Inc.
2004	EVERGREEN XVI	Cole Information Services
	DELMARVA FOUNDATION INC	Cole Information Services
	WM P NOBLE	Cole Information Services
	CALIFORNIA SEISMIC SAFETY CMSN	Cole Information Services
	CIT GROUP	Cole Information Services
	EVERGREEN/ZINFANDEL 44	Cole Information Services
1999	BOX DAVIC MILLER & PADGETT ATTORNEYS	Cole Information Services
	LONDON PACIFIC LIFE & ANNUITY COMPANY	Cole Information Services
	NOBLE WILLIAM P JR THOMPSON NOBLE COMPANY LLP	Cole Information Services
	KERZE DAVID P THOMPSON NOBLE COMPANY LLP	Cole Information Services
	PENSYS	Cole Information Services
	SUNADA DAVID N PURSLEY & GLAESER ATTORNEYS AT LAW	Cole Information Services
	CALFARM INSURANCE AGENCY REGIONAL CLAIMS OFFICE	Cole Information Services
	CIT GROUP SALES FINANCING THE	Cole Information Services
	DEAN JEFFREY T	Cole Information Services
	PURSLEY WILLIAM J PURSLEY & GLAESER ATTORNEYS AT	Cole Information Services
	THOMPSON NOBLE COMPANY LLP	Cole Information Services
	CHRISTENSEN DARRELL G THOMPSON NOBLE COMPANY LLP	Cole Information Services
	CAL FARM INSURANCE COMPANY SUBROGATION DEPARTMENT	Cole Information Services

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	GLAESER DEBORAH I PURSLEY & GLAESER ATTORNEYS AT	Cole Information Services
	CHAPMAN BENJAMIN G THOMPSON NOBLE COMPANY LLP	Cole Information Services
	KADOYA RICHARD S THOMPSON NOBLE COMPANY LLP	Cole Information Services
	KADOYA RICHARD S	Haines & Company
	KERZE DAVID P CPA	Haines & Company
	LONDON PACIFIC LIFE	Haines & Company
	NOBLE WM P JR CPA	Haines & Company
	PENSYS	Haines & Company
	SELECT ADVISORS INC	Haines & Company
	THOMPSON NOBLE CO	Haines & Company
	C I T GRP SLS FNCNG	Haines & Company
	CHRISTENSEN D G CPA	Haines & Company
	CIT GROUP SLS FNCNG	Haines & Company
	DEAN JEFFREY T	Haines & Company
1994	LONDON PACIFIC ASSURANCE GROUP	Cole Information Services
	BOX DAVIC MILLER	Cole Information Services
	INTERNATIONAL COMPUTERS LTD	Cole Information Services
	AMERICAN EXPRESS MONEYGRAM	Cole Information Services
	LONDON PACIFIC LIFE	Cole Information Services
	DECUIR, DENNIS	Cole Information Services
1760 CR	EEKSIDE OAKS DR	
<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	BARRETT BUSINES SERVICES INC	Cole Information Services
	CALIF MINICORPS	Cole Information Services
	VALI COOPER & ASSOCIATES INC VC&A	Cole Information Services
	ANIXTER	Cole Information Services
	ECI TWO CREEKSIDE OAKS LLC	Cole Information Services
	CHEW STEPHEN R LAW OFFICE	Cole Information Services
	EXPRESS SEWER & DRAIN	Cole Information Services
	CYS STRUCTURAL ENGINEERS INC	Cole Information Services
	PURSLEY & GLAESER	Cole Information Services
	FARMERS RICE	Cole Information Services
	JATOFT FOTI	Cole Information Services
	M O A DEPOSITION REPORTERS	Cole Information Services
	COMPASS CAR SHIPPING EXPRESS	Cole Information Services

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	GOLDEN STATE DONOR SERVICES	Cole Info
	JATOFT FOTI	Cole Info
	SIERRA EYE & TISSUE DONOR SERVICE	Cole Info
	CHEW STEPHEN R LAW OFFICE OF	Cole Info
	MOA DEPOSITION REPORTERS	Cole Info
	PURSLEY & GLAESER ATTORNEY	Cole Info
	COMPASS CAR SHIPPING EXPRESS	Cole Info
	FARMERS RICE	Cole Info
	BBSI	Cole Info
	VALI COOPER & ASSOCIATES INC VC&A	Cole Info
	ANIXTER	Cole Info
2009	PURSLEY LAW FIRM	Cole Info
	UNIVERSITY OF PHOENIX	Cole Info
	BARRETT BUSINESS SERVICES INC	Cole Info
	D C I DONOR SERVICES INC	Cole Info
	CONFIDENTIAL BUSINESS RESOURCE	Cole Info
	PURSLEY RUSH & WELSLEY LLP	Cole Info
	GOLDEN STATE DONOR SERVICES	Cole Info
	ADR ENVIRONMENTAL GROUP INC	Cole Info
	DALRA A COLSON CPA	Cole Info
	PURSLEY GLAESER & SUNADA	Cole Info
2004	NADEL ARCHITECTS INC	Cole Info
	THE WELLMADE	Cole Info
	GOLDEN STATE HONOR SERVICE	Cole Info
	PURSLEY & GLAESER ATTYS AT LAW	Cole Info
1999	NADEL PARTNERSHIP INCORPORATED	Cole Info
	GILLETTE ASSOCIATES	Cole Info
	MEDSTATE GROUP THE	Cole Info
	CONTACT MANAGEMENT SYSTEMS	Cole Info
	TELOS CONSULTING SERVICES	Cole Info
	COLSON DARLA A CPA GILBERT ACCOUNTANCY CORPORATION	Cole Info
	KEENAN & ASSOCIATES	Cole Info
	GILBERT THOMAS M CPA GILBERT ACCTNCY CORPORATION	Cole Info
	UNIVERSITY OF PHOENIX	Cole Info

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<u>Uses</u>	<u>Source</u>
CHAQUICA JOHN E CPA GILBERT ACCTNCY CORPORATION	Cole Information Services
STRAINE EDWARD E CPA GILBERT ACCTNCY CORPORATION	Cole Information Services
WONG KEVIN S CPA GILBERT ACCOUNTANCY CORPORATION	Cole Information Services
SANTIN KIMBERLY J CPA	Cole Information Services
ZAVADA JAMIE L CPA	Cole Information Services
GOLDEN STATE TRANSPLANT	Cole Information Services
PECK SANDRA A CPA	Haines & Company
NADEL PARTNERSHIP INC	Haines & Company
NADEL ARCHITECTS	Haines & Company
MEDSTATE GROUP THE	Haines & Company
MAININI PAMELA A CPA	Haines & Company
LJUNG DAVID E CPA	Haines & Company
KEENAN & ASSOCIATES	Haines & Company
KAN LISA A ATTY	Haines & Company
GOLDEN STATE DONOR SERVICES	Haines & Company
GOLDEN ST TRANSPLNT	Haines & Company
GLAESER DEBORAHI ATTY	Haines & Company
GILLETTE ASSOCIATES	Haines & Company
GILBERT THOMAS CPA	Haines & Company
GILBERT ACCOUNTANCY	Haines & Company
DODGE MICHELE A CPA	Haines & Company
DALE JEFF J CPA	Haines & Company
COLSON DARLA A CPA	Haines & Company
C A L LIGHTING	Haines & Company
BUILDING	Haines & Company
WONG KEVIN S CPA	Haines & Company
VANDEVOOREN PEGGY A CPA	Haines & Company
UNIV PHOENIX SAC CAMPUS	Haines & Company
SUNADA DAVID N ATTY	Haines & Company
STRAINE EDWARD CPA	Haines & Company
RUSH CHARLES C ATTY	Haines & Company
PURSLEY WILLIAM J ATTY	Haines & Company
PURSLEY & GLAESER ATTORNEYS LAW	Haines & Company
NASH, BARBARA	Cole Information Services
TRANSAMERICA FINANCIAL SVC	Cole Information Services
SAGE CENTER STRATEGIC	Cole Information Services
	UsesCHAQUICA JOHN E CPA GILBERT ACCTNCY CORPORATIONSTRAINE EDWARD E CPA GILBERT ACCTNCY CORPORATIONWONG KEVIN S CPA GILBERT ACCOUNTANCY CORPORATIONSANTIN KIMBERLY J CPAZAVADA JAMIE L CPAGOLDEN STATE TRANSPLANTPECK SANDRA A CPANADEL PARTNERSHIP INCNADEL ARCHITECTSMEDSTATE GROUP THEMAININI PAMELA A CPALJUNG DAVID E CPAKEENAN & ASSOCIATESKAN LISA A ATTYGOLDEN STATE DONOR SERVICESGOLDEN STATE DONOR SERVICESGOLDEN STATE DONOR SERVICESGOLDEN STATE DONOR SERVICESGILBERT THOMAS CPAGILBERT THOMAS CPAGILBERT ACCOUNTANCYDODGE MICHELE A CPADALE JEFF J CPACOLSON DARLA A CPACA L LIGHTINGBUILDINGWONG KEVIN S CPAVANDEVOOREN PEGGY A CPAUNIV PHOENIX SAC CAMPUSSUNADA DAVID N ATTYSTRAINE EDWARD CPARUSH CHARLES C ATTYPURSLEY & GLAESER ATTORNEYS LAWNASH, BARBARATRANSAMERICA FINANCIAL SVCSAGE CENTER STRATEGIC

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1994	RHD ASSOC INC	Cole Information Ser
	WESTERN MOBILE HOME ASSN	Cole Information Ser
1770 CR	EEKSIDE OAKS DR	
<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	XXXX	Haines & Company
1780 CR	EEKSIDE OAKS DR	
<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	PAULA DULA	Cole Information Ser
2009	FIREFIGHTERS PUBLICATIONS	Cole Information Ser
	CALIFORNIA FATHER FGHTRS APPRNT	Cole Information Ser
	FIRESTAR PRODUCTIONS	Cole Information Ser
	CALIFORNIA PROFESSIONAL FIREFIGHTERS	Cole Information Ser
2005	PRODUCTIONS	Haines Company, Ir
	FIREFIGHTER PUBLICATIONS FIRESTAR	Haines Company, Ir
	APPRNTCSHP FIREFIGHTER PBLCTNS	Haines Company, Ir
	APPRNTCSHP CALIF FRE FGHTR JNT	Haines Company, Ir
	APPRNTCSHP CALIF FRE FGHTR JNT	Haines Company, Ir
	FIREF 1 GHTERS CALIF FRE FGHTR JNT	Haines Company, Ir
	FOUNDATION CA PROFESSIONAL	Haines Company, Ir
	CA FIREFIGHTERS	Haines Company, Ir
	SUNADA DAVID N ATTY	Haines Company, Ir
	RUSH CHARLES C 916 922 880 M ATTY SAWYER KERRY L	Haines Company, Ir
	OLAESER ATTORNE PURSLEYWILUAMJ	Haines Company, Ir
	PURSLEYAND 91gi 622 106	Haines Company, Ir
	ATTRNYSATLAW	Haines Company, Ir
	PURSLEY I GLSR	Haines Company, Ir
	ATr Y NADEL ARCHITECTS	Haines Company, Ir
	ATTYATLAW MORRISONCRAIQE	Haines Company, Ir
	MPRSLY&OLS KNAPP CHRISTIAN J	Haines Company, Ir
	GOLDENSTATE DONOR SERVICES KLIMASZEWSKI SNDRA	Haines Company, Ir
	ATTYATLAW	Haines Company, Ir
	ENGINEERS INC GLAESER DEBORAH I	Haines Company, Ir
	CYS STRUCTURAL	Haines Company, Ir

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<u>Year</u>	<u>Uses</u>	<u>Sourc</u>
2005	ADR ENVIRONMENTAL GROUP INC CALUGHTING	Haines
2004	CALIFORNIA FIRE FOUNDATION	Cole In
	FIRE STAR PRODUCTIONS	Cole In
1999	FIRE STAR PRODUCTIONS	Cole In
	CALIFORNIA PROFESSIONAL FIREFIEGHTERS	Cole In
	FIREFIGHTER PUBLICATIONS	Cole In
	CALIF FIRE FIGHTER JOINT APPRENTICESHIP COMMITTEE	Cole In
	FIRESTAR PRODUCTIONS	Haines
	FIREFIGHTER PBLCTNS	Haines
	CA PROFESSIONAL FIREFIGHTERS	Haines
	CA FIRE FIGHTR CMTE	Haines
	CA FIREFIGHTR FNDTN	Haines
1994	CALIFORNIA FIRE FIGHTERS	Cole In
	ANCHOR GROUP THE	Cole In
	ANCHOR GROUP	Cole In
	FIREFIGHTER PBLCTNS	Cole In
MILLCRE		
<u>Year</u>	<u>Uses</u>	Sourc
2017	GABRIEL MARTINEZ	Cole In

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<u>Year</u>	<u>Uses</u>
2017	GABRIEL MARTINEZ
	SILVIA TREVINO
	ROBERTO SANCHEZ
	JEREMY BELL
	LEBELLA GUILLORY
2014	MICHAEL HOUSE
	ROBERTO SANCHEZ
	RAUL MARTINEZ
	JULI INIGUEZ
	DANIELLE ORROCK
	YVONNE DEROUSSEAU
2009	EHAB HASSAN
	LARRY VENTERESS
	STEVE FOX
	VERONICA YADAO
	JACARE HUNTER

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<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	ANGELINA MARTINEZ	Cole Information
	MONTRELL HARRIS	Cole Information
	GREGORY ANTHONY	Cole Information
2004	TAMER DOUARA	Cole Information
	JASON VALLNER	Cole Information
	HILDA HASSAN	Cole Information
	RAJKUMAR CHILAMULA	Cole Information
	I BADRU	Cole Information
	D ROSS	Cole Information
	PAUL GROJEAN	Cole Information
	KEITH CRUZ	Cole Information
	ISIAHKA BADRUE	Cole Information
	WILLIAM VALCHECK	Cole Information
	DONNA WITHAM	Cole Information
1999	LARRY VENTERESS	Cole Information
	STEVE FOX	Cole Information
	JACARE HUNTER	Cole Information
	VERONICA YADAO	Cole Information
	GREGORY ANTHONY	Cole Information
	GARBACK S G	Haines & Com
	MILLER Jeffery	Haines & Com
	THOMPSON Paul G	Haines & Com
	THAOCHUETOUA Lawson	Haines & Com
1995	LUCERO Raymond A	Pacific Bell
	CHERUKURI Ravi	Pacific Bell
1994	HILT, CRAIG	Cole Information
1991	Delgado C M	Pacific Bell
	Mc New Marshall	Pacific Bell
	Mueller Rusty W	Pacific Bell
	Rios Rafael N	Pacific Bell
2576 MII	LLCREEK DR	
<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	CHRISTINA GOMEZ	Cole Information
	ERIN GRAVES	Cole Information

JOSEPH HOLLAK

LESLIE ALATORRE

CARMEN LAZO SIMMIE HOLLAND

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<u>Year</u>	<u>Uses</u>
2014	DEAN BALLESTEROS
	CYNTHIA DIAZ
	MARIA GOMEZ
	FELICITAS GUTIERREZ
	ED HANKS
	DANIEL SHAW
2009	CHRISTIN SPRING
	R KOTESWARARAO
	LOVE JONES
	JIHSHEN CHAO
	SAM MEANS
	DEAN BALLESTEROS
	GARY KINCHELOW
	GARY ARCHER
	TIM MCCABE
	CARMEN LAZO
	LORRI SYLVESTER
2004	R KOTESWARARAO
	MATTHEW WELTON
	RICHARD RIVAS
	CHARLES MCGEE
	SAM MEANS
	GARY KINCHELOW
	ADAM BARNEY
	JAMES BYRD
	ТІМ МССАВЕ
	FERNANDO ESTOLANO
	RONETTA TURNER
	JOSEPH HOLLAK
	STEVEN BARCLIFT
1999	CARMEN LAZO
	TIM MCCABE
	GARY ARCHER
	GARY KINCHELOW
	DEAN BALLESTEROS
	SAM MEANS
	LOVE JONES
	R KOTESWARARAO

<u>Source</u>

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<u>Year</u>	<u>Uses</u>
1999	CHRISTIN SPRING
	LORRI SYLVESTER
	ROY Shoma
	PAVAO Christina D
	ORTH Martin R
	SMITH Albert
	RUPERT Nate
	APARTMENTS
1995	SHEPARDSON Wayne
	MARSHALL David
1994	MARSHALL, DAVID
1991	Sodders Robert
2578 MIL	LCREEK DR
<u>Year</u>	<u>Uses</u>
2017	HILDA DESOUZA
	MARIAH DAVIS
	CHRISTINE WALLACE
	DAVID WIGGINS
	NAKISHA BAILEY
	STARLETT LYONS

MARILYN HIGGS

STARLETT LYONS

MARILYN HIGGS HILDA DESOUZA

DONALD BROWN AARON KING

JAMES RANDAL

MARILYN HIGGS

BECKY BUURMA

MARILYN HIGGS

CHAD BARNES

GLENN CAINAP

YUGI SAKAI

JESLYN JACKSON

JESLYN JACKSON MARIAH DAVIS

2014

2009

2004

<u>Source</u>

Cole Information Services Cole Information Services Haines & Company Pacific Bell Pacific Bell Cole Information Services Pacific Bell

<u>Source</u>

Cole Information Services Cole Information Services **Cole Information Services Cole Information Services** Cole Information Services Cole Information Services Cole Information Services **Cole Information Services Cole Information Services** Cole Information Services Cole Information Services **Cole Information Services Cole Information Services Cole Information Services Cole Information Services** Cole Information Services **Cole Information Services Cole Information Services**
<u>Year</u>	<u>Uses</u>
2004	MARCUS FARROW
	OPAL SIMMONS
1999	JESLYN JACKSON
	DOUG HAUBERT
	BECKY BUURMA
	MARILYN HIGGS
	YOKOUCHI Mirel
	SAKAMAKI Stephen
	SAKAMAKI Henri
	ISOKE LABORATORY
	HAUBERT Lisa
	HAUBERT Doug
	ANGELL Cat
	APARTMENTS
	PERYY Michael
1995	MARTINEZ Daniel
	GERLT David
	ENGEL Michael A
1994	HODGE, LARRY D
	ENGEL, MICHAEL A
	SHULMAN, STACY
1991	Marion Robert L Jr
	Hill Herman L
	Engleman S A
	Britton Louis S
	Ashen Charles
2580 MIL	
<u>Year</u>	<u>Uses</u>
2017	ANDRE JOHNSON
	ROSIE GIBBS
2014	PHILLIP TOWLES
	ROCHELLE DAVIS
	EMMA FRANKLIN
	ANDRE JOHNSON
	JASMINE STALLWORTH
2009	SABRYNA JONES

2004

RAJENDRA SHARMA

LORI FOX

<u>Source</u>

Cole Information Services Cole Information Services Haines & Company Pacific Bell Pacific Bell Pacific Bell **Cole Information Services** Cole Information Services Cole Information Services Pacific Bell Pacific Bell Pacific Bell Pacific Bell Pacific Bell

<u>Source</u>

Cole Information Services Cole Information Services

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	ALAN JONES	Cole Information Services
	DOUG SKIPPS	Cole Information Services
	SANDRA MORALES	Cole Information Services
	GLENELLA MOORE	Cole Information Services
	RONALD STALCUP	Cole Information Services
	TOM MEADOWS	Cole Information Services
	SHANNON MCBEE	Cole Information Services
1999	SABRYNA JONES	Cole Information Services
	BUSH Randall D	Haines & Company
	HITE Tim	Haines & Company
	TURNER Bob	Haines & Company
1995	MAROSE Robin	Pacific Bell
	MAY Tim	Pacific Bell
1991	Turrell Tom N	Pacific Bell
	Marose Robin	Pacific Bell
	Kowall Donald C	Pacific Bell
2582 MIL	LCREEK DR	
<u>Year</u>	Uses	Source
2017	SANDRA MUNIZ	Cole Information Services
	ROBERT PIEXOTO	Cole Information Services
	MARK KISSLER	Cole Information Services
	MAIJA BOROUGH	Cole Information Services
2014	FERMIN MONTOYA	Cole Information Services
		Cole Information Services
	AVBENA AVEKOVA	Cole Information Services
	ELLIOT VARNADO	Cole Information Services
	MARK KISSLER	Cole Information Services
	TINA WRIGHT	Cole Information Services
	ASHLEY BARROW	Cole Information Services
2009	M MCCORVEY	Cole Information Services
	DAVID DUSTIN	Cole Information Services
	ALTON BROUSSARD	Cole Information Services
2004	RICK CODIGA	Cole Information Services
	E VARNADO	Cole Information Services
	ERIC SANCHEZ	Cole Information Services
	JOEL MORTIMORE	Cole Information Services
	JOSEPH WORLEY	Cole Information Services
	DAVID DUSTIN	Cole Information Services

<u>Year</u>	<u>Uses</u>
2004	CHRISTOPHER JOHNSON
	NAZARIO GUZMAN
	REGINA CHOPP
1999	DAVID DUSTIN
	CANDACE CODIGA
	M MCCORVEY
	ALTON BROUSSARD
	HOPKINS V
	CODIGA Candace L
	BYNON David W
1995	CRISTAL David
1994	YWNDAMURI, M
1991	Condon William J
	Fairchild Katherine A
	Mejia Jesus
2584 MILL	Mejia Jesus CREEK DR
2584 MILL <u>Year</u>	Mejia Jesus CREEK DR <u>Uses</u>
2584 MILL <u>Year</u> 2017	Mejia Jesus CREEK DR <u>Uses</u> BRYAN XIONG
2584 MILL <u>Year</u> 2017	Mejia Jesus CREEK DR <u>Uses</u> BRYAN XIONG DANA DAMASK
2584 MILL <u>Year</u> 2017	Mejia Jesus CREEK DR <u>Uses</u> BRYAN XIONG DANA DAMASK ISAAC STROUD
2584 MILL <u>Year</u> 2017	Mejia Jesus CREEK DR <u>Uses</u> BRYAN XIONG DANA DAMASK ISAAC STROUD MARILYN POWELL
2584 MILL <u>Year</u> 2017	Mejia Jesus CREEK DR Uses BRYAN XIONG DANA DAMASK ISAAC STROUD MARILYN POWELL KATRINA PARKER
2584 MILL <u>Year</u> 2017	Mejia Jesus CREEK DR <u>Uses</u> BRYAN XIONG DANA DAMASK ISAAC STROUD MARILYN POWELL KATRINA PARKER LESHA POWELL
2584 MILL <u>Year</u> 2017	Mejia Jesus CREEK DR Uses BRYAN XIONG DANA DAMASK ISAAC STROUD MARILYN POWELL KATRINA PARKER LESHA POWELL NICOLE NELSON
2584 MILL <u>Year</u> 2017	Mejia Jesus CREEK DR Uses BRYAN XIONG DANA DAMASK ISAAC STROUD MARILYN POWELL KATRINA PARKER LESHA POWELL NICOLE NELSON LINDSEY OLIVER
2584 MILL <u>Year</u> 2017	Mejia Jesus CREEK DR Uses BRYAN XIONG DANA DAMASK ISAAC STROUD MARILYN POWELL KATRINA PARKER LESHA POWELL NICOLE NELSON LINDSEY OLIVER COREY WILSON

2014 LINDSEY OLIVER MARVIN NOCEDA LESHA POWELL CAPUSIN BONDS MARILYN POWELL ISAAC STROUD MARY YOBST DANA DAMASK 2009 LINDSEY OLIVER JONA TEJADA ARTEMIO RODRIGUEZ

LUIS AYALA

<u>Source</u>

Cole Information Services Haines & Company Haines & Company Pacific Bell Cole Information Services Pacific Bell Pacific Bell Pacific Bell

Source **Cole Information Services** Cole Information Services Cole Information Services Cole Information Services **Cole Information Services Cole Information Services** Cole Information Services Cole Information Services **Cole Information Services Cole Information Services Cole Information Services Cole Information Services** Cole Information Services **Cole Information Services Cole Information Services**

Tear	0363	
2009	PATRICIA JEFFERY	
	CLIFFORD WESTON	
	VISHNU POTLURI	
	RICHARD LEGGETT	
	JERI GANDARA	
	MONETTE MCFADDEN	
	ANNA GAMBOA	
	RAJI ABRAHAM	
2004	WWW EDUWEB CO	
	SID ALMANZA	
	LINDSEY OLIVER	
	MATTHEW HIRKALA	
	JENNIFER CARR	
	PATRICIA JEFFERY	
	BRUCE NIXON	
	VISHNU POTLURI	
	DANG TRAN	
	SHIRLEY HUTCHINSON	
	SARA QUEZADA	
	PRASANNA PADIHARI	
	KELLY HARMON	
	CLIFFORD WESTON	
1999	ANNA GAMBOA	
	RICHARD LEGGETT	
	JERI GANDARA	
	CLIFFORD WESTON	
	MONETTE MCFADDEN	
	VISHNU POTLURI	
	RAJI ABRAHAM	
	PATRICIA JEFFERY	
	LUIS AYALA	
	ARTEMIO RODRIGUEZ	
	JONA TEJADA	
	LINDSEY OLIVER	
	BEAL JEANETTE M	
	FITZGERALD Shaun	
	LEONARDSON Hubert	
	OLIVER Lindsey M	

Voar

llene

Source

Cole Information Services Cole Information Services Cole Information Services Cole Information Services **Cole Information Services** Cole Information Services Cole Information Services **Cole Information Services Cole Information Services Cole Information Services** Cole Information Services **Cole Information Services Cole Information Services** Haines & Company Haines & Company Haines & Company Haines & Company

<u>Year</u>	<u>Uses</u>
1995	BENSON Tyrone
	HERR L
	LEE Jae
	LEONARDSON Hubert
	OLIVER Lindsey M
1994	AKIRA, MOMURA
	HERR, L
1991	Leonardson Hubert
	Robinson Gene
	Songer James M
2586 MILLCREEK DR	

<u>Year</u><u>Uses</u>

2017 LINDA CROLL DEXTER SIMMONS MARIA ALVAREZ CARTER VEST DARREL VENABLE ANTOINETTE BYRD ADISA DOUGLAS ABUBAKAR KHAN SATENIK HOVAKIMYAN 2014 LINDA CROLL DEXTER SIMMONS CARTER VEST JULIE VANETTEN SATENIK HOVAKIMYAN ANTOINETTE BYRD DWIKEESHA JONES ANTHONY PITTMAN JOHN COOK DARREL VENABLE 2009 MARCIA SOLBERG ADRIAN BOGDAN W LANE TRACY MARLOW JULIE VANETTEN PERRY FOSTER MILAGRO CRUZ

<u>Source</u>

Pacific Bell Pacific Bell Pacific Bell Pacific Bell Pacific Bell Cole Information Services Cole Information Services Pacific Bell Pacific Bell

<u>Source</u>

Cole Information Services **Cole Information Services Cole Information Services** Cole Information Services **Cole Information Services Cole Information Services** Cole Information Services Cole Information Services Cole Information Services **Cole Information Services Cole Information Services** Cole Information Services Cole Information Services **Cole Information Services Cole Information Services Cole Information Services Cole Information Services** Cole Information Services **Cole Information Services Cole Information Services**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	LINDA CROLL	Cole Information Services
2004	LINDA CROLL	Cole Information Services
	LORETTA STEELE	Cole Information Services
	CRISTINA WOJDAC	Cole Information Services
	PETER GROFF	Cole Information Services
	NILAJAY BALLARD	Cole Information Services
	SHAHRIAR TAVAKOLI	Cole Information Services
	SHERRI BRANDENBURG	Cole Information Services
	TIMOTHY LONG	Cole Information Services
	JULIE VANETTEN	Cole Information Services
	SARAH MORA	Cole Information Services
	KIRAN BAKSHI	Cole Information Services
	MILAGRO CRUZ	Cole Information Services
	MARCIA SOLBERG	Cole Information Services
1999	LINDA CROLL	Cole Information Services
	W LANE	Cole Information Services
	PERRY FOSTER	Cole Information Services
	JULIE VANETTEN	Cole Information Services
	LISA MAGRUDER	Cole Information Services
	MILAGRO CRUZ	Cole Information Services
	ADRIAN BOGDAN	Cole Information Services
	MARCIA SOLBERG	Cole Information Services
	WALSTON Valerie	Haines & Company
	STARRITT Christi	Haines & Company
	NUNO Becky	Haines & Company
	MAGRUDER Lisa R	Haines & Company
	FEIL Elizabeth	Haines & Company
	EASTERN Len	Haines & Company
	APARTMENTS	Haines & Company
1995	G & S International Trading	Pacific Bell
	SUI Yung	Pacific Bell
1994	SUI, YUNG	Cole Information Services
1991	Bass David Mr & Mrs	Pacific Bell
	Vega Francisco	Pacific Bell
	Willis J	Pacific Bell
	Wilson I	Pacific Bell

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2587 MILLCREEK DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	NOEL SMITH	Cole Information Services
	ALBERTINA GUTIERREZ	Cole Information Services
	JACKIE MINCEY	Cole Information Services
	JULIE AMES	Cole Information Services
	ASHLEY GRAY	Cole Information Services
	MARGARET THOMPSON	Cole Information Services
	TIFFANY HAYES	Cole Information Services
	WALTER EARNEST	Cole Information Services
	MICHELLE CHALMERS	Cole Information Services
	KYLE HUNDLEY	Cole Information Services
	PATRICK HACKETT	Cole Information Services
2014	JUSTIN SAUNDERS	Cole Information Services
	AMBER MONCRIEF	Cole Information Services
	ROBERT ASHBURN	Cole Information Services
	TINA JACKSON	Cole Information Services
	ROBIN CONOVER	Cole Information Services
	ANGELINA MARTINEZ	Cole Information Services
	HUNTS SMITH	Cole Information Services
	JULIE AMES	Cole Information Services
	LYNN ALBRECHT	Cole Information Services
	TERESA REID	Cole Information Services
2009	JAIME TREJOS	Cole Information Services
	AMBER SISEMORE	Cole Information Services
	SHARON QUINTANA	Cole Information Services
	CASSANDRA SMITH	Cole Information Services
	TIFFANY HAYES	Cole Information Services
	CRYSTAL DEVERA	Cole Information Services
	ADRIAN TORIBIO	Cole Information Services
	LERLENE HIGGS	Cole Information Services
2004	NEIL WARREN	Cole Information Services
	CASSANDRA SMITH	Cole Information Services
	CHRISTINA FOLTZ	Cole Information Services
	READELL GARDNER	Cole Information Services
	BENJAMIN MARGETTS	Cole Information Services
	DANIEL OFORLEA	Cole Information Services
	PAUL SOBER	Cole Information Services
	GEORGE MARTINEZ	Cole Information Services

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	ALAN ARMSTRONG	Cole Information Services
	EDGAR BORJA	Cole Information Services
	L ESPARZA	Cole Information Services
	WILLIAM MCKEE	Cole Information Services
	WAHEED MAROOF	Cole Information Services
1999	JAIME TREJOS	Cole Information Services
	AMBER SISEMORE	Cole Information Services
	CASSANDRA SMITH	Cole Information Services
	CRYSTAL DEVERA	Cole Information Services
	ADRIAN TORIBIO	Cole Information Services
	LERLENE HIGGS	Cole Information Services
	SHARON QUINTANA	Cole Information Services
	PRECIADO Gustavo	Haines & Company
	MESSINEO Vincent J	Haines & Company
1995	TUMBALE Tom & Tracy	Pacific Bell
	GREEN Becky	Pacific Bell
	CONSTANTINIDES Tony	Pacific Bell
1994	GREEN, BECKY	Cole Information Services
1991	Steffenhagen Gail	Pacific Bell
	Hammond Vernon & Henney	Pacific Bell
	Estrada Ron	Pacific Bell
2589 MIL		-
<u>Year</u>	<u>Uses</u>	Source
2017	KEVOIJANAE THOMAS	Cole Information Services
	CHEDA HERNANDEZ	Cole Information Services
	KIMBERLY WRIGHT	Cole Information Services
	MARILYNN ARMSTRONG	Cole Information Services
2014	MASOOD DIN	Cole Information Services
	ELOISA MUNOZ	Cole Information Services
	MARILYNN ARMSTRONG	Cole Information Services
	JOHN ANGLEN	Cole Information Services
2009	MARILYNN ARMSTRONG	Cole Information Services
	RENE FRENCH	Cole Information Services
	JUAN MEDINA	Cole Information Services
	ELOISA MUNOZ	Cole Information Services
2004	JOE HILLS	Cole Information Services
	DERIC ISAACSON	Cole Information Services
	N ANDERSON	Cole Information Services

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	THOMAS FIRTH	Cole Infor
	TARYN ECKELS	Cole Infor
	LISA PONCIA	Cole Infor
	VINH VANLE	Cole Infor
1999	MARILYNN ARMSTRONG	Cole Infor
	JUAN MEDINA	Cole Infor
	ELOISA MUNOZ	Cole Infor
	RENE FRENCH	Cole Infor
	XXXX	Haines &
1991	Trapse Lillian	Pacific Be
	Scharn B	Pacific Be
2591 MII	LLCREEK DR	
<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	JASMINE LACEY	Cole Inform
	ROSA MUNOZ	Cole Infor
	NIKKITA PARKER	Cole Infor
	ANGEL ALVAREZ	Cole Infor
	DANNY CORDERO	Cole Inform
	NICHELLE BRAODWAY	Cole Infor
	BRYAN HAMPTON	Cole Infor
	DAVID LARSON	Cole Infor
	LERLENE HIGGS	Cole Infor
	BIBEK GHIMIRE	Cole Inform
	SAMANTHA JOSEPH	Cole Infor
2014	LERLENE HIGGS	Cole Infor
	RALPH DAVIS	Cole Infor
	MARK KEHOE	Cole Infor
	MICHAEL VANLANING	Cole Infor
	DAVID SAETURN	Cole Infor
	NAKIEA BLAKELY	Cole Infor
	JASMINE LACEY	Cole Infor
	NANCY BAZAN	Cole Infor
	SALLI CLARK	Cole Infor
2009	TIFFANY PETERSEN	Cole Infor
	MELISSA VONLAHR	Cole Infor
	LINDALEE HATCH	Cole Infor
	RIGOBERTO SANCHEZ	Cole Infor
	TINA JACKSON	Cole Infor

Source

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mation Services **Cole Information Services**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	MARIO LOPEZ	Cole Information Services
	WILLIE SMITH	Cole Information Services
2004	ELOISA MUNOZ	Cole Information Services
	JAVIER LEONEL	Cole Information Services
	ALICE BROMUND	Cole Information Services
	SAMUEL FLORES	Cole Information Services
	RONALD DENT	Cole Information Services
	TODD STENHOUSE	Cole Information Services
	NIRANJAN CHOUTKURI	Cole Information Services
	WOMAN TO WOMAN	Cole Information Services
	MARCO CARBODI	Cole Information Services
	JESSE RAMOS	Cole Information Services
	LUIS VASQUEZ	Cole Information Services
	ROBERT APODACA	Cole Information Services
	JASON KOWING	Cole Information Services
	LINDALEE HATCH	Cole Information Services
1999	TINA JACKSON	Cole Information Services
	WILLIE SMITH	Cole Information Services
	MARIO LOPEZ	Cole Information Services
	RIGOBERTO SANCHEZ	Cole Information Services
	MELISSA VONLAHR	Cole Information Services
	TIFFANY PETERSEN	Cole Information Services
	MITCHELL Lilyann	Haines & Company
	NIVA Douglas	Haines & Company
	PORTWOOD Joe	Haines & Company
	LOVE Debbie	Haines & Company
	GARCIA R A	Haines & Company
	APARTMENTS	Haines & Company
	NIVA Lisa	Haines & Company
1995	LEE Seechuan	Pacific Bell
1994	ALVAREZ, FELIPE	Cole Information Services
1991	Kim Kathy	Pacific Bell
	Hudson Steve A	Pacific Bell
	Harrison Rodney	Pacific Bell
	Alston Luvleigh	Pacific Bell
2593 MIL	LCREEK DR	

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<u>Source</u>

2017 RIVER TERRACE APTS SACRAMENTO

<u>Uses</u>

<u>Year</u>

Cole Information Services

<u>Year</u>	<u>Uses</u>	Source
2017	RIVER TERRACE APARTMENTS	Cole Information Services
	ALICIA DAVINROY	Cole Information Services
2014	JAMIE SOLTAU	Cole Information Services
	RIVER TERRACE APTS SACRAMENTO	Cole Information Services
	RIVER TERRACE APARTMENTS	Cole Information Services
2009	RIVER TERRACE APARTMENTS	Cole Information Services
2004	RIVER TERRACE APARTMENTS	Cole Information Services
	SUE DOZIER	Cole Information Services
	PAUL LOZANO	Cole Information Services
1999	KENT Bob	Haines & Company
	PFANNER Ted	Haines & Company
485 NATO	OMAS PARK DR	
<u>Year</u>	<u>Uses</u>	Source
1999	PRENTISS PROPERTIES LTD INC	Haines & Company

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
1733 CAPITAL PARK DR	2017, 2014, 2009, 2005, 2004, 2002, 1999, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1750 CREEKSIDE OAKS DR	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1750 CREEKSIDE OAKS DR	2005, 2002, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1755 CREEKSIDE OAKS DR	2005, 2002, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1755 CREEKSIDE OAKS DR	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1760 CREEKSIDE OAKS DR	2017, 2014, 2009, 2005, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1760 CREEKSIDE OAKS DR	2005, 2002, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1765 CAPITAL PARK DR	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1765 CAPITAL PARK DR	2017, 2014, 2009, 2004, 2002, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1767 CAPITAL PARK DR	2017, 2014, 2009, 2005, 2004, 2002, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1767 CAPITAL PARK DR	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1769 CAPITAL PARK DR	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1769 CAPITAL PARK DR	2017, 2014, 2009, 2004, 2002, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1770 CREEKSIDE OAKS DR	2017, 2014, 2009, 2005, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1771 CAPITAL PARK DR	2017, 2014, 2009, 2004, 2002, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1771 CAPITAL PARK DR	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1773 CAPITAL PARK DR	2005, 2002, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1773 CAPITAL PARK DR	2017, 2014, 2009, 2004, 2002, 1999, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1775 CAPITAL PARK DR	2017, 2014, 2009, 2004, 2002, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1775 CAPITAL PARK DR	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1777 CAPITAL PARK DR	2005, 2002, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920

Address Researched	Address Not Identified in Research Source
1777 CAPITAL PARK DR	2017, 2014, 2009, 2004, 2002, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1779 CAPITAL PARK DR	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1779 CAPITAL PARK DR	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1780 CREEKSIDE OAKS DR	2017, 2005, 2002, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1780 CREEKSIDE OAKS DR	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1781 CAPITAL PARK DR	2017, 2014, 2009, 2004, 2002, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1781 CAPITAL PARK DR	2005, 2002, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1783 CAPITAL PARK DR	2005, 2002, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1783 CAPITAL PARK DR	2017, 2014, 2009, 2004, 2002, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1785 CAPITAL PARK DR	2017, 2014, 2009, 2004, 2002, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
1785 CAPITAL PARK DR	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
2574 MILLCREEK DR	2017, 2014, 2009, 2005, 2004, 2002, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
2574 MILLCREEK DR	2005, 2002, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
2576 MILLCREEK DR	2 005, 2002, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
2576 MILLCREEK DR	2017, 2014, 2009, 2005, 2004, 2002, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
2578 MILLCREEK DR	2017, 2014, 2009, 2005, 2004, 2002, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
2578 MILLCREEK DR	2005, 2002, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
2580 MILLCREEK DR	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
2580 MILLCREEK DR	2017, 2014, 2009, 2005, 2004, 2002, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
2582 MILLCREEK DR	2017, 2014, 2009, 2005, 2004, 2002, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
2582 MILLCREEK DR	2005, 2002, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
2584 MILLCREEK DR	2017, 2014, 2009, 2005, 2004, 2002, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
2584 MILLCREEK DR	2005, 2002, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
2586 MILLCREEK DR	2005, 2002, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920

Address Researched	Address Not Identified in Research Source
2586 MILLCREEK DR	2017, 2014, 2009, 2005, 2004, 2002, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
2587 MILLCREEK DR	2017, 2014, 2009, 2005, 2004, 2002, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
2587 MILLCREEK DR	2005, 2002, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
2589 MILLCREEK DR	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
2589 MILLCREEK DR	2017, 2014, 2009, 2005, 2004, 2002, 1995, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
2591 MILLCREEK DR	2017, 2014, 2009, 2005, 2004, 2002, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
2591 MILLCREEK DR	2005, 2002, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
2593 MILLCREEK DR	2017, 2014, 2009, 2005, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
2593 MILLCREEK DR	2005, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
485 NATOMAS PARK DR	2017, 2014, 2009, 2005, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 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

2450 Natomas Park

Address Not Identified in Research Source

2002, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920





ENVIRONMENTAL DATA RESOURCES (EDR) REPORT



2450 Natomas Park

2450 Natomas Park Sacramento, CA 95833

Inquiry Number: 6302266.2s December 15, 2020

The EDR Radius Map[™] Report with GeoCheck®



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

Appendix D

FORM-LBC-DLU

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Thank you for your business.

Please contact EDR at 1-800-352-0050 with any questions or comments.

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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

2450 NATOMAS PARK SACRAMENTO, CA 95833

COORDINATES

 Latitude (North):
 38.61126

 Longitude (West):
 121.5039

 Universal Tranverse Mercator:
 Zone 10

 UTM X (Meters):
 630259.1

 UTM Y (Meters):
 4274493

 Elevation:
 18 ft. abord

38.6112600 - 38° 36' 40.53" 121.5039390 - 121° 30' 14.18" Zone 10 630259.1 4274493.5 18 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: Version Date: 5619750 SACRAMENTO WEST, CA 2012 5629066 RIO LINDA, CA

Northeast Map: Version Date:

Southeast Map: Version Date:

Northwest Map: Version Date: 2012 5619770 TAYLOR MONUMENT, CA 2012

5619748 SACRAMENTO EAST, CA

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: Source: 20140621 USDA

2012

Target Property Address: 2450 NATOMAS PARK SACRAMENTO, CA 95833

Click on Map ID to see full detail.

MAP				RELATIVE	DIST (ft. & mi.)
	SITE NAME NATOMAS RACQUET CLUB	ADDRESS 2450 NATOMAS PARK DR	EINDS	ELEVATION	TP
A2	T-MOBILE WEST CORP (2450 NATOMAS PARK DR	Sacramento Co. ML		TP
A3	NATOMAS SPORTS CLUB	2450 NATOMAS PARK DR	Sacramento Co. ML, CERS		TP
4	VERIZON WIRELESS TRU	2000 W EL CAMINO AVE	Sacramento Co. ML, CERS	Higher	99, 0.019, NNW
5	VERIZON BUSINESS	2485 NATOMAS PARK DR	Sacramento Co. ML	Higher	333, 0.063, WSW
6	2020 GATEWAY	2020 W EL CAMINO AVE	Sacramento Co. ML, CERS	Higher	822, 0.156, NW
7	CABLE AND WIRELESS U	2495 NATOMAS PARK DR	Sacramento Co. ML	Higher	916, 0.173, SSW
8	FOUNDATION HLTH/NATO	2554 MILL CREEK DR	Sacramento Co. ML	Lower	1172, 0.222, East
B9	MCI TELECOMMUNICATIO	1740 CREEKSIDE OAKS	Sacramento Co. ML	Lower	1195, 0.226, ESE
B10	HONEYWELL	1740 CREEKSIDE OAKS	Sacramento Co. ML	Lower	1195, 0.226, ESE
11	SHELL SERVICE STATIO	1599 W EL CAMINO	LUST, CA FID UST, Cortese, CERS	Lower	1650, 0.312, ENE
12	CHRISTOFER OAKS ONE	2500 VENTURE OAKS	LUST, Sacramento Co. CS, Cortese, HIST CORTESE,	Higher	1935, 0.366, WSW
C13	DISCOVERY PLAZA (FOR	1500-1590 WEST EL CA	CPS-SLIC, CERS	Lower	2337, 0.443, ENE
C14	DISCOVERY PLAZA SHOP	1500 WEST EL CAMINO	CPS-SLIC, CERS	Lower	2337, 0.443, ENE
15	BIGGERS INDUSTRIAL G	551 SEQUOIA PACIFIC	ENVIROSTOR, CHMIRS, HIST CORTESE	Higher	4411, 0.835, SSE
16	ARCO SERVICE STATION	222 JIBBOOM STREET	Notify 65	Higher	5031, 0.953, South
17	CALVADA SALES COMPAN	444 RICHARDS BLVD	LUST, Sacramento Co. CS, CERS HAZ WASTE, SWEEPS	S Higher	5175, 0.980, SSE
D18	SACRAMENTO SIGNAL DE		FUDS	Higher	5257, 0.996, SE
D19	SACRAMENTO SIGNAL DE	NORTH 7TH STREET	ENVIROSTOR	Higher	5272, 0.998, SE
		\mathbf{O}			

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	
NATOMAS RACQUET CLUB 2450 NATOMAS PARK DR SACRAMENTO, CA 95833	FINDS Registry ID:: 110065648598	N/A	
T-MOBILE WEST CORP (2450 NATOMAS PARK DR SACRAMENTO, CA 95833	Sacramento Co. ML	N/A	
NATOMAS SPORTS CLUB 2450 NATOMAS PARK DR SACRAMENTO, CA 95833	Sacramento Co. ML CERS	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			
Federal Delisted NPL site list			
Delisted NPL National Price	prity List Deletions		
Federal CERCLIS list			
FEDERAL FACILITY	ility Site Information listing Interprise Management System		
Federal CERCLIS NFRAP site list			
SEMS-ARCHIVE Superfund E	Interprise Management System Archive		
Federal RCRA CORRACTS facilities list			
CORRACTS Corrective A	ction Report		

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF_____ RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG	RCRA - Large Quantity Generators
RCRA-SQG	RCRA - Small Quantity Generators
RCRA-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 - equivalent NPL

RESPONSE..... State Response Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST	Underground Storage Tank Listing
UST	Active UST Facilities
AST	Aboveground Petroleum Storage Tank Facilities
INDIAN UST	

State and tribal voluntary cleanup sites

State and tribal Brownfields sites

BROWNFIELDS..... Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT	Waste Management Unit Database
SWRCY	Recycler Database
HAULERS	Registered Waste Tire Haulers Listing
INDIAN ODI	Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
ODI	Open Dump Inventory
IHS OPEN DUMPS	Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL HIST Cal-Sites	Delisted National Clandestine Laboratory Register Historical Calsites Database
SCH	School Property Evaluation Program
CDL	Clandestine Drug Labs
Toxic Pits	Toxic Pits Cleanup Act Sites
CERS HAZ WASTE	CERS HAZ WASTE
US CDL	National Clandestine Laboratory Register
PFAS	PFAS Contamination Site Location Listing

Local Lists of Registered Storage Tanks

SWEEPS UST	SWEEPS UST Listing
HIST UST	Hazardous Substance Storage Container Database
CA FID UST	Facility Inventory Database
CERS TANKS	California Environmental Reporting System (CERS) Tanks

Local Land Records

LIENS	Environmental Liens Listing
LIENS 2	CERCLA Lien Information
DEED	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
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

DMD	
RMP	Risk Management Plans
RAAIS	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	FIERA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
	Indian Reservations
	Formerly Itilized Sites Remedial Action Program
	Uranium Mill Tailinge Stag
	Lead Smeller Siles
	Aerometric Information Retrieval System Pacifity Subsystem
	Mines Master Index File
ABANDONED MINES	Abandoned Mines
ECHO	. Enforcement & Compliance History Information
DOCKET HWC	Hazardous Waste Compliance Docket Listing
UXO	Unexploded Ordnance Sites
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
HAZNET	Facility and Manifest Data
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
PESTLIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
	Oil Wastewater Pite Listing
WDS	Wastewater its Listing
W/ID	Wall by acting the System
	DDO LECT (CEOTDACKED)
	Westerne Requirements Listing
	Waste Discharge Requirements Listing
UTHER UIL GAS	
PROD WATER PONDS	
SAMPLING POINT	SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ	. Well Stimulation Project (GEOTRACKER)

HWTS_____ Hazardous Waste Tracking System MINES MRDS_____ Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF_____ Recovered Government Archive Solid Waste Facilities List RGA LUST_____ Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in *bold italics* are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 07/27/2020 has revealed that there are 2 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BIGGERS INDUSTRIAL G	551 SEQUOIA PACIFIC	SSE 1/2 - 1 (0.835 mi.)	15	32

Facility Id: 34340018 Status: No Further Action

SACRAMENTO SIGNAL DE Facility Id: 80000605 Status: No Further Action

NORTH 7TH STREET

EET SE 1/2 - 1 (0.998 mi.)

D19

44

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 2 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHRISTOFER OAKS ONE	2500 VENTURE OAKS	WSW 1/4 - 1/2 (0.366 mi.)	12	27
Database: LUST REG 5, Date of G	Government Version: 07/01/2008			
Database: LUST, Date of Governm	nent Version: 09/08/2020			
Status: Completed - Case Closed				
Status: Case Closed				
Global Id: T0606700566				
Lower Elevation	Address	Direction / Distance	Map ID	Page
SHELL SERVICE STATIO	1599 W EL CAMINO	ENE 1/4 - 1/2 (0.312 mi.)	11	21
Database: LUST REG 5, Date of G	Sovernment Version: 07/01/2008			
Database: LUST, Date of Governm	nent Version: 09/08/2020			
Status: Completed - Case Closed				
Global Id: T0606783253				

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 2 CPS-SLIC sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
DISCOVERY PLAZA (FOR Database: CPS-SLIC, Date of Gu Eacility Status: Completed - Case	1500-1590 WEST EL CA overnment Version: 09/08/2020	ENE 1/4 - 1/2 (0.443 mi.)	C13	30
Global Id: SLT5S1243164	e Closed			
DISCOVERY PLAZA SHOP Database: CPS-SLIC, Date of Ge	1500 WEST EL CAMINO overnment Version: 09/08/2020	ENE 1/4 - 1/2 (0.443 mi.)	C14	31
Facility Status: Completed - Case Global Id: SI 0606778991	e Closed			

Sacramento Co. CS: List of sites where unauthorized releases of potentially hazardous materials have occurred.

A review of the Sacramento Co. CS list, as provided by EDR, and dated 02/18/2020 has revealed that there is 1 Sacramento Co. CS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHRISTOFER OAKS ONE Facility Id: RO0001124 Date Closed: 08/08/1994	2500 VENTURE OAKS	WSW 1/4 - 1/2 (0.366 mi.)	12	27

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 08/05/2020 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SACRAMENTO SIGNAL DE		SE 1/2 - 1 (0.996 mi.)	D18	43

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 06/22/2020 has revealed that there are 2 Cortese sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHRISTOFER OAKS ONE	2500 VENTURE OAKS	WSW 1/4 - 1/2 (0.366 mi.)	12	27
Cleanup Status: COMPLETED - C	CASE CLOSED			
Lower Elevation	Address	Direction / Distance	Map ID	Page
SHELL SERVICE STATIO	1599 W EL CAMINO	ENE 1/4 - 1/2 (0.312 mi.)	11	21
Cleanup Status: COMPLETED - C	CASE CLOSED			

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 is 1 HIST CORTESE site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHRISTOFER OAKS ONE	2500 VENTURE OAKS	WSW 1/4 - 1/2 (0.366 mi.)	12	27

Reg Id: 340665

Sacramento Co. ML: Sacramento County Master List. Any business that has hazardous materials on site - hazardous materials storage sites, underground storage tanks, waste generators.

A review of the Sacramento Co. ML list, as provided by EDR, and dated 02/24/2020 has revealed that there are 7 Sacramento Co. ML sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VERIZON WIRELESS TRU	2000 W EL CAMINO AVE	NNW 0 - 1/8 (0.019 mi.)	4	12
VERIZON BUSINESS	2485 NATOMAS PARK DR	WSW 0 - 1/8 (0.063 mi.)	5	15
2020 GATEWAY	2020 W EL CAMINO AVE	NW 1/8 - 1/4 (0.156 mi.)	6	16
CABLE AND WIRELESS U	2495 NATOMAS PARK DR	SSW 1/8 - 1/4 (0.173 mi.)	7	19
Lower Elevation	Address	Direction / Distance	Map ID	Page
FOUNDATION HLTH/NATO Facility Status: Inactive. Included of	2554 MILL CREEK DR on a listing no longer updated.	E 1/8 - 1/4 (0.222 mi.)	8	19
MCI TELECOMMUNICATIO Facility Status: Inactive. Included of	1740 CREEKSIDE OAKS on a listing no longer updated.	ESE 1/8 - 1/4 (0.226 mi.)	B9	20
HONEYWELL Facility Status: Inactive. Included of	1740 CREEKSIDE OAKS on a listing no longer updated.	ESE 1/8 - 1/4 (0.226 mi.)	B10	20

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 12/07/2020 has revealed that there are 2 Notify 65 sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ARCO SERVICE STATION	222 JIBBOOM STREET	S 1/2 - 1 (0.953 mi.)	16	35
CALVADA SALES COMPAN	444 RICHARDS BLVD	SSE 1/2 - 1 (0.980 mi.)	17	35

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name

SACRAMENTO-YOLO MOSQUITO & VECTOR CITY OF SACRAMENTO

Database(s)

CPS-SLIC Sacramento Co. CS



OVERVIEW MAP - 6302266.2S



INQUIRY #: DATE:	6302266.2 December	s 15, 2020	12:40 p
Copyrig	ht © 2020 EDR, Inc.	. © 2015 TomTom	Rel. 2015.

Sacramento CA 95833

38.61126 / 121.503939

LAT/LONG:

Appendix D

DETAIL MAP - 6302266.2S



IE NAME:	2450 Natomas Park	CLIENT:	ANALY IICAL ENVIRONMENTA	L SERVICES
DDRESS:	2450 Natomas Park	CONTACT:	Charlane Gross	
	Sacramento CA 95833	INQUIRY #:	6302266.2s	Appendix D
AT/LONG:	38.61126 / 121.503939	DATE:	December 15, 2020 12:41 pm	

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Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONME	NTAL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 1.000		0 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	0 0 0
Federal Delisted NPL	site list							
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY SEMS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Federal CERCLIS NFR	AP site list							
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRA	CTS facilities l	ist						
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CC	ORRACTS TSD I	facilities list						
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generat	tors list		\mathbf{N}					
RCRA-LQG RCRA-SQG RCRA-VSQG	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
Federal institutional carefield and carefiel	ontrols / registries							
LUCIS US ENG CONTROLS US INST CONTROLS	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equi	valent NPL							
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equi	valent CERCLIS	S						
ENVIROSTOR	1.000		0	0	0	2	NR	2
State and tribal landfil solid waste disposal s	l and/or ite lists							
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking	g storage tank l	lists						
LUST	0.500		0	0	2	NR	NR	2

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST CPS-SLIC Sacramento Co. CS	0.500 0.500 0.500		0 0 0	0 0 0	0 2 1	NR NR NR	NR NR NR	0 2 1
State and tribal register	red storage tar	nk lists						
FEMA UST UST AST INDIAN UST	0.250 0.250 0.250 0.250		0 0 0 0	0 0 0 0	NR NR NR NR	NR NR NR NR	NR NR NR NR	0 0 0 0
State and tribal volunta	ry cleanup site	es						
INDIAN VCP VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal Brownf	ields sites							
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONME	NTAL RECORD	S						
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Waste Disposal Sites	Solid							
WMUDS/SWAT SWRCY HAULERS INDIAN ODI DEBRIS REGION 9 ODI IHS OPEN DUMPS	0.500 0.500 0.001 0.500 0.500 0.500 0.500	2	0 0 0 0 0 0 0	0 0 NR 0 0 0 0	0 0 NR 0 0 0 0	NR NR NR NR NR NR	NR NR NR NR NR NR	0 0 0 0 0 0
Local Lists of Hazardou Contaminated Sites	is waste /							
US HIST CDL HIST Cal-Sites SCH CDL Toxic Pits CERS HAZ WASTE US CDL PFAS	0.001 1.000 0.250 0.001 1.000 0.250 0.001 0.500		0 0 0 0 0 0 0 0	NR 0 0 NR 0 0 NR 0	NR 0 NR 0 NR 0 NR 0	NR 0 NR 0 NR NR NR	NR NR NR NR NR NR NR	0 0 0 0 0 0 0
Local Lists of Registere	ed Storage Tar	nks						
SWEEPS UST HIST UST CA FID UST CERS TANKS	0.250 0.250 0.250 0.250		0 0 0 0	0 0 0 0	NR NR NR NR	NR NR NR NR	NR NR NR NR	0 0 0 0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2 DEED	0.001 0.500		0 0	NR 0	NR 0	NR NR	NR NR	0 0
Records of Emergency	Release Repo	rts						
HMIRS CHMIRS LDS MCS SPILLS 90	0.001 0.001 0.001 0.001 0.001		0 0 0 0	NR NR NR NR NR	NR NR NR NR NR	NR NR NR NR NR	NR NR NR NR NR	0 0 0 0
Other Ascertainable Red	cords							
RCRA NonGen / NLR FUDS DOD SCRD DRYCLEANERS US FIN ASSUR EPA WATCH LIST 2020 COR ACTION TSCA TRIS SSTS ROD RMP RAATS PRP PADS ICIS FTTS MLTS COAL ASH DOE COAL ASH EPA PCB TRANSFORMER RADINFO HIST FTTS DOT OPS CONSENT INDIAN RESERV FUSRAP UMTRA	0.250 1.000 1.000 0.500 0.001 0.000 0.001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000 0.00000000			0 0 0 NR N 0 NR N N N N N N N N N N N N	NR 0 0 NR NR NR NR NR NR NR NR NR NR NR NR NR	NR 1 0 R R R R R R O R R R R R R R R R R R R	NR N	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
LEAD SMELTERS US AIRS US MINES ABANDONED MINES	0.001 0.001 0.250 0.250		0 0 0 0	NR NR 0 0	NR NR NR NR NR	NR NR NR NR	NR NR NR NR	0 0 0 0
FINDS ECHO DOCKET HWC UXO FUELS PROGRAM CA BOND EXP. PLAN Cortese CUPA Listings	0.001 0.001 1.000 0.250 1.000 0.500 0.250	1	0 0 0 0 0 0 0 0	NR NR 0 0 0 0 0	NR NR 0 NR 0 2 NR	NR NR 0 NR 0 NR NR	NR NR NR NR NR NR NR	1 0 0 0 0 2 0

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		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	1	NR	NR	1
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
Sacramento Co. ML	0.250	2	2	5	NR	NR	NR	9
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	2	NR	2
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
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		0	NR	NR	NR	NR	0
CERS	0.001	1	0	NR	NR	NR	NR	1
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
	0.001		0					0
	0.001							0
								0
	0.001							0
MINES MIRDS	0.001		0	ININ	ININ	INIT	INIX	0
EDR HIGH RISK HISTORICAL	RECORDS							
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERN	MENT ARCHI	/ES						
Exclusive Recovered Gov	/t. Archives							
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals		4	2	5	8	5	0	24

	Search							
Database	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


		(
Map ID Direction			MAP FINDINGS]		
Distance Elevation	Site				Database(s)	EDR ID Number EPA ID Number
A1 Target Property	NATOMAS RACQUET CLUI 2450 NATOMAS PARK DR SACRAMENTO, CA 95833	3			FINDS	1023274663 N/A
	Site 1 of 3 in cluster A					
Actual: 18 ft.	FINDS: Registry ID:	110065648598				
	Click Here:					
	Environmental Interest/Info	ormation System: TE MASTER				
	<u>Click</u> addit	<u>this hyperlink</u> whi ional FINDS: deta	le viewing on your computer to access il in the EDR Site Report.			
A2 Target Property	T-MOBILE WEST CORP (SC 2450 NATOMAS PARK DR SACRAMENTO, CA 95833	C06703A)		Sacrar	nento Co. ML	S123294673 N/A
	Site 2 of 3 in cluster A					
Actual: 18 ft.	Sacramento Co. ML: Name: Address: City,State,Zip: Facility Id: Facility Status: FD: Billing Codes BP: Billing Codes UST: WG Bill Code: Target Property Bill Cod Food Bill Code: CUPA Permit Date: HAZMAT Permit Date:	T-MOE 2450 N SACR/ Not rep Not rep Not rep Not rep Not rep Not rep Not rep Not rep	ALE WEST CORP (SC06703A) ATOMAS PARK DR AMENTO, CA 95833 borted borted borted borted borted borted borted borted borted borted borted borted borted borted borted			

A3NATOMAS SPORTS CLUBTarget2450 NATOMAS PARK DRPropertySACRAMENTO, CA 95833

Site 3 of 3 in cluster A

Actual: 18 ft. Sacramento Co. ML: Name: Address: City,State,Zip: Facility Id:

HAZMAT Inspection Date:

Hazmat Date BP Received:

UST Permit Dt:

UST Inspection Date:

UST Tank Test Date:

UST Tank Test Date:

Number of Tanks:

SIC Code:

Tier Permitting: AST Bill Code:

CALARP Bill Code:

NATOMAS SPORTS CLUB 2450 NATOMAS PARK DR SACRAMENTO, CA 95833 Not reported

Not reported Not reported

Not reported

Not reported

Sacramento Co. ML S102593089 CERS N/A

Database(s)

EDR ID Number EPA ID Number

S102593089

NATOMAS SPORTS CLUB (Continued)

Facility Status: FD: Billing Codes BP: Billing Codes UST: WG Bill Code: Target Property Bill Cod: Food Bill Code: CUPA Permit Date: HAZMAT Permit Date: HAZMAT Inspection Date: Hazmat Date BP Received: UST Permit Dt: UST Inspection Date: UST Tank Test Date: Number of Tanks: UST Tank Test Date: SIC Code: Tier Permitting: AST Bill Code: CALARP Bill Code:

CERS:

Name: Address: City,State,Zip: Site ID: CERS ID: CERS Description:

Evaluation:

Eval General Type: Eval Date: Violations Found: Eval Type: Eval Notes:

Eval Division: Eval Program: Eval Source:

Eval General Type: Eval Date: Violations Found: Eval Type: Eval Notes: Eval Division: Eval Program: Eval Source:

Coordinates: Site ID: Facility Name: Not reported Not reported

Not reported Not reported

Not reported

Α

NATOMAS SPORTS CLUB 2450 NATOMAS PARK DR SACRAMENTO, CA 95833 137438 10221493 Chemical Storage Facilities

Compliance Evaluation Inspection 12-12-2018

No

Routine done by local agency

No violations were noted at the time of the inspection. Notes: The CERS submittal had been not accepted for the ER/Contingency Plan not having the seismic locations. The ER/Contingency Plan was updated while on site. The facility added Hydrochloric Acid to the inventory. An updated CERS submittal was made today. Ensure that an annual HM submittal is made to CERS. Ensure that an adequate eyewash is provided in the pool room. Sacramento County Env Management Department

Sacramento County Env Management Department HMRRP CERS

Compliance Evaluation Inspection 12-07-2015 No Routine done by local agency No violations observed at time of inspection. Sacramento County Env Management Department HMRRP CERS

137438 NATOMAS SPORTS CLUB

Database(s)

EDR ID Number EPA ID Number

NATOMAS SPORTS CLUB (Continued)

Env Int Type Code: Program ID: Coord Name: Ref Point Type Desc: Latitude: Longitude:

Affiliation:

HMBP 10221493 Not reported Center of a facility or station. 38.611260 -121.503940

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone: Parent Corporation NATOMAS RACQUET CLUB Not reported Not reported Not reported Not reported Not reported Not reported Not reported

Property Owner Sparetime Inc Not reported 11344 Coloma Road Ste 350 Gold River CA United States 95670 (916) 859-5910

CUPA District Sacramento County Environmental Management Departm Not reported 10590 Armstrong Avenue, Suite A Sacramento CA Not reported 95655

(916) 875-8550 Document Preparer Ricky Ramos Not reported Not reported Not reported Not reported Not reported

Not reported

Not reported

Identification Signer Ricky Ramos Facilities Manager Not reported Not reported Not reported Not reported Not reported Not reported Not reported

S102593089

TC6302266.2s Page 11 Appendix D

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

NATOMAS SPORTS CLUB (Continued)

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone: Environmental Contact Ricky Ramos Not reported 2450 Natomas Park Drive Sacramento CA Not reported 95833 Not reported

Facility Mailing Address Mailing Address Not reported 2450 NATOMAS PARK DR SACRAMENTO CA Not reported 95833 Not reported

Legal Owner SPARE TIME INC Not reported 2450 NATOMAS PARK DR SACRAMENTO CA United States 95833 (916) 859-5910

Operator Sparetime Inc Not reported Not reported Not reported Not reported Not reported Not reported (916) 859-5910

4	VERIZON WIRELESS TRUXEL
NNW	2000 W EL CAMINO AVE
< 1/8	SACRAMENTO, CA 95833

< 1/8 0.019 mi. 99 ft.

Relative: Higher Actual: 18 ft.

Name: Address: City,State,Zip: Facility Id: Facility Status: FD: Billing Codes BP: Billing Codes UST: WG Bill Code: Target Property Bill Cod:

Sacramento Co. ML:

VERIZON WIRELESS TRUXEL 2000 W EL CAMINO AVE SACRAMENTO, CA 95833 Not reported Not reported A Not reported Not reported Not reported Not reported Not reported Sacramento Co. ML S118691334 CERS N/A

S102593089

TC6302266.2s Page 12 Appendix D

MAP FINDINGS

Not reported

Not reported

Not reported Not reported

Not reported Not reported

Not reported

Not reported Not reported

Not reported

Not reported

Not reported

Not reported

Not reported

Database(s)

EDR ID Number EPA ID Number

S118691334

VERIZON WIRELESS TRUXEL (Continued)

Food Bill Code: CUPA Permit Date: HAZMAT Permit Date: HAZMAT Inspection Date: Hazmat Date BP Received: UST Permit Dt: UST Inspection Date: UST Tank Test Date: Number of Tanks: UST Tank Test Date: SIC Code: Tier Permitting: AST Bill Code: CALARP Bill Code:

CERS:

Name: Address: City,State,Zip: Site ID: CERS ID: CERS Description:

Evaluation:

Eval General Type: Eval Date: Violations Found: Eval Type: Eval Notes: Eval Division: Eval Program: Eval Source:

Eval General Type: Eval Date: Violations Found: Eval Type: Eval Notes: Eval Division: Eval Program: Eval Source:

Coordinates:

Site ID: Facility Name: Env Int Type Code: Program ID: Coord Name: Ref Point Type Desc: Latitude: Longitude:

Affiliation:

Affiliation Type Desc: Entity Name: Entity Title: VERIZON WIRELESS TRUXEL 2000 W EL CAMINO AVE SACRAMENTO, CA 95833 406576 10145543 Chemical Storage Facilities

Compliance Evaluation Inspection 10-26-2018

No Routine done by local agency NOTE: No violations observed at time of inspection. Sacramento County Env Management Department HMRRP CERS

OLINO

Compliance Evaluation Inspection 12-16-2015 No Routine done by local agency No violations noted this date. Sacramento County Env Management Department HMRRP CERS

406576 Verizon Wireless Truxel HMBP 10145543 Not reported Center of a facility or station. 38.612530 -121.504550

Parent Corporation Verizon Wireless [Northern California] Not reported

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

VERIZON WIRELESS TRUXEL (Continued)

Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone: Not reported Not reported Not reported Not reported Not reported Not reported

Legal Owner Verizon Wireless Not reported 295 Parkshore Drive Folsom CA United States 95630 (866) 694-2415

CUPA District Sacramento County Environmental Management Departm Not reported 10590 Armstrong Avenue, Suite A Sacramento CA Not reported 95655 (916) 875-8550

Document Preparer Steve Skanderson Not reported Not reported

Environmental Contact Environmental Compliance Not reported 295 Parkshore Drive Folsom CA Not reported 95630 Not reported

Facility Mailing Address Mailing Address Not reported 295 Parkshore Drive Folsom CA Not reported 95630 Not reported

Map ID		MAP FINDINGS		
Direction	Ц			
Elevation	Site		Database(s)	EDR ID Number EPA ID Number
	VERIZON WIRELESS TRUXEL (Co	ontinued)		S118691334
		Identification Signer		0110001001
	Entity Name:	armand delgado		
	Entity Title:	environmental compliance mgr		
	Affiliation Address:	Not reported		
	Affiliation City:	Not reported		
	Affiliation State:	Not reported		
	Affiliation Country:	Not reported		
	Affiliation ZIP:	Not reported		
	Amilation Phone:	Not reported		
	Affiliation Type Desc:	Operator		
	Entity Name:	Verizon Wireless		
	Entity Title:	Not reported		
	Affiliation Address:	Not reported		
	Affiliation City:	Not reported		
	Affiliation State:	Not reported		
	Affiliation Country:	Not reported		
	Affiliation Phone:	(866) 694-2415		
	Amilation Phone.	(000) 094-2410		
5 WSW < 1/8 0.063 mi. 333 ft. Relative: Higher Actual: 20 ft.	VERIZON BUSINESS 2485 NATOMAS PARK DR SACRAMENTO, CA 95833 Sacramento Co. ML: Name: Address: City,State,Zip: Facility Id: Facility Status: FD: Billing Codes BR: Billing Codes BR: Billing Codes UST: WG Bill Code: Target Property Bill Cod: Food Bill Code: CUPA Permit Date: HAZMAT Inspection Date: HAZMAT Inspection Date: HAZMAT Inspection Date: UST Permit Dt: UST Inspection Date: UST Tank Test Date: Number of Tanks: UST Tank Test Date: SIC Code: Tier Permitting: AST Bill Code:	VERIZON BUSINESS 2485 NATOMAS PARK DR SACRAMENTO, CA 95833 Not reported Not reported	Sacramento Co. ML	S108484524 N/A
	AST Bill Code:	Not reported		
	CALARP Bill Code:	Not reported		

Database(s) EP

EDR ID Number EPA ID Number

6 NW 1/8-1/4 0.156 mi. 822 ft.	2020 GATEWAY 2020 W EL CAMINO AVE SACRAMENTO, CA 95833		Sacramento Co. ML CERS	S118417627 N/A
Relative: Higher Actual: 18 ft.	Sacramento Co. ML: Name: Address: City,State,Zip: Facility Id: Facility Status: FD: Billing Codes BP: Billing Codes UST: WG Bill Code: Target Property Bill Cod: Food Bill Code: CUPA Permit Date: HAZMAT Permit Date: HAZMAT Inspection Date: HAZMAT Inspection Date: UST Permit Dt: UST Inspection Date: UST Tank Test Date: Number of Tanks: UST Tank Test Date: SIC Code: Tier Permitting: AST Bill Code:	2020 GATEWAY 2020 W EL CAMINO AVE SACRAMENTO, CA 95833 Not reported Not reported No		
	CALARP Bill Code. CERS: Name: Address: City,State,Zip: Site ID: CERS ID: CERS Description: Evaluation: Eval General Type: Eval Date: Violations Found: Eval Program: Eval Source: Eval General Type: Eval Source: Eval General Type: Eval Source: Eval General Type: Eval Date: Violations Found: Eval Date: Violations Found: Eval Type: Eval Notes: Eval Division: Eval Program: Eval Division: Eval Division:	2020 GATEWAY 2020 W EL CAMINO AVE SACRAMENTO, CA 95833 362206 10650523 Chemical Storage Facilities Compliance Evaluation Inspection 02-05-2019 No Routine done by local agency No violations were noted at the time of the ir primary emergency contact changed from S Gardner. The CERS submittal was made too Sacramento County Env Management Depa HMRRP CERS Compliance Evaluation Inspection 03-14-2016 No Routine done by local agency No violations observed at time of inspection Sacramento County Env Management Depa HMRRP	nspection. Notes: The teve Barnett to Clayton day. Infment	

CERS

Database(s)

EDR ID Number EPA ID Number

2020 GATEWAY (Continued)

Eval Source:

Coordinates: Site ID: Facility Name: Env Int Type Code: Program ID: Coord Name: Ref Point Type Desc: Latitude: Longitude:

362206 2020 GATEWAY HMBP 10650523 Not reported Entrance point of a facility or station 38.613630 -121.509280

Affiliation:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Facility Mailing Address Mailing Address Not reported 301 University Ave, #100 Sacramento CA Not reported 95825 Not reported

Document Preparer

Clay Gardner Not reported Not reported Not reported Not reported Not reported Not reported Not reported

Parent Corporation 2020 GATEWAY Not reported Not reported

CUPA District Sacramento County Environmental Management Departm Not reported 10590 Armstrong Avenue, Suite A Sacramento CA Not reported 95655 (916) 875-8550

Operator Colliers International Real Estate Management Services Not reported

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

S118417627

2020 GATEWAY (Continued)

Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc. Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone: Not reported Not reported Not reported Not reported (916) 923-2020 Property Owner Bannon Investors c/o KKN Inc, LLC Ltd. Not reported 2020 W. El Camino Ave. Sacramento CA

United States 95833 (916) 978-4890

Environmental Contact Clay Gardner Not reported 2020 W. El Camino Ave, #103 Sacramento CA Not reported 95833 Not reported

Identification Signer Clay Gardner Chief Engineer Not reported Not reported Not reported Not reported Not reported Not reported Not reported

Legal Owner Bannon Investors c/o KKN Inc. Not reported 2020 W. El Camino Ave, Suite #120 Sacramento CA United States 95833 (916) 978-4890

Map ID		MAP FINDINGS]	
Direction Distance Elevation	Site		Database(s)	EDR ID Number EPA ID Number
7 SSW 1/8-1/4 0.173 mi. 916 ft.	CABLE AND WIRELESS USA 2495 NATOMAS PARK DR SACRAMENTO, CA 95833		Sacramento Co. ML	S103707925 N/A
Relative: Higher Actual: 26 ft.	Sacramento Co. ML: Name: Address: City,State,Zip: Facility Id: Facility Status: FD: Billing Codes BP: Billing Codes UST: WG Bill Code: Target Property Bill Cod: Food Bill Code: CUPA Permit Date: HAZMAT Permit Date: HAZMAT Inspection Date: UST Permit Dt: UST Inspection Date: UST Tank Test Date: Number of Tanks: UST Tank Test Date: SIC Code: Tier Permitting: AST Bill Code: CALARP Bill Code:	CABLE AND WIRELESS USA 2495 NATOMAS PARK DR SACRAMENTO, CA 95833 Not reported Not reported		
8 East 1/8-1/4 0.222 mi. 1172 ft.	FOUNDATION HLTH/NATOMAS 2554 MILL CREEK DR SACRAMENTO, CA 95833		Sacramento Co. ML	S103964834 N/A
Relative:	Sacramento Co. ML:			
Actual: 17 ft.	Address: City,State,Zip: Facility Id: Facility Status: FD: Billing Codes BP: Billing Codes UST: WG Bill Code: Target Property Bill Cod: Food Bill Code: CUPA Permit Date: HAZMAT Permit Date: HAZMAT Inspection Date: HAZMAT Inspection Date: UST Permit Dt: UST Inspection Date: UST Tank Test Date: Number of Tanks: UST Tank Test Date: SIC Code:	2554 MILL CREEK DR SACRAMENTO, CA 95833 Not reported Inactive. Included on a listing no longer update Not reported Out of Business No Tanks Oil Changed by Outside Company-No Fee 51 51 Not reported Not reported	d.	

	MAP FINDINGS		
Site		Database(s)	EDR ID Number EPA ID Number
FOUNDATION HLTH/NATO	IAS (Continued)		S103964834
Tier Permitting: AST Bill Code: CALARP Bill Code:	Not reported Not reported Not reported		
MCI TELECOMMUNICATION 1740 CREEKSIDE OAKS SACRAMENTO, CA 95833	IS	Sacramento Co. ML	S123292687 N/A
Site 1 of 2 in cluster B			
Sacramento Co. ML: Name: Address: City,State,Zip: Facility Id: Facility Status: FD: Billing Codes BP: Billing Codes UST: WG Bill Code: Target Property Bill Cod Food Bill Code: CUPA Permit Date: HAZMAT Inspection Date: HAZMAT Inspection Date UST Permit Dt: UST Permit Dt: UST Tank Test Date: Number of Tanks: UST Tank Test Date: SIC Code: Tier Permitting: AST Bill Code: CALARP Bill Code:	MCI TELECOMMUNICATIONS 1740 CREEKSIDE OAKS SACRAMENTO, CA 95833 Not reported Inactive. Included on a listing no-longer updated Not reported Disclaimer No Tanks Oil Changed by Outside Company-No Fee 50 S0 Not reported Not reported	1.	
HONEYWELL 1740 CREEKSIDE OAKS SACRAMENTO, CA 95833		Sacramento Co. ML	S123291754 N/A
Site 2 of 2 in cluster B			
Sacramento Co. ML: Name: Address: City,State,Zip: Facility Id: Facility Status: FD: Billing Codes BP: Billing Codes UST: WG Bill Code: Target Property Bill Code Food Bill Code: CUPA Permit Date:	HONEYWELL 1740 CREEKSIDE OAKS SACRAMENTO, CA 95833 Not reported Inactive. Included on a listing no longer updated U Disclaimer No Tanks Oil Changed by Outside Company-No Fee 50 50 Not reported	.	
	Site FOUNDATION HLTH/NATON Tier Permitting: AST Bill Code: CALARP Bill Code: CALARP Bill Code: CALARP Bill Code: Sacramento Co. ML: Name: Address: City,State,Zip: Facility Id: Facility Status: FD: Billing Codes BP: Billing Codes BP: Billing Codes UST: WG Bill Code: CUPA Permit Date: HAZMAT Permit Date: HAZMAT Permit Date: UST Tank Test Date: Number of Tanks: UST Tank Test Date: SIC Code: Tier Permitting: AST Bill Code: CALARP Bill Code: CALARP Bill Code: CIPA Permit Date: HAZMAT Inspection Date: UST Tank Test Date: Number of Tanks: UST Tank Test Date: Number of Tanks: UST Tank Test Date: Number of Tanks: UST Tank Test Date: SIC Code: Tier Permitting: AST Bill Code: CALARP Bill Code: CALARP Bill Code: CIT, State, Zip: Facility Id: Facility Status: FD: Billing Codes BP: Billing Codes CUPA Permit Date: CUPA Per	Site FOUNDATION HLTH/NATOMAS (Continued) Tier Permitting: Not reported AST Bill Code: Not reported CALARP Bill Code: Not reported MCI TELECOMMUNICATIONS 1740 CREEKSIDE OAKS SACRAMENTO, CA 95833 Site 1 of 2 in cluster B Sacramento Co. ML: Name: MCI TELECOMMUNICATIONS Address: 1740 CREEKSIDE OAKS City State Zip: SACRAMENTO, CA 95833 Facility Id: Not reported Billing Codes BP: Disclaimer Billing Codes UST: Not reported Food BIII Code: S0 CUPA Permit Date: Not reported Hazmat Date BP Received: Not reported HAZMAT Permit Date: Not reported UST Tank Test Date: Not reported VUST Tank Test Date: Not reported VUST Tank Test Date: Not reported Size 2 of 2 in cluster B Sacramento Co. ML: Name: HONEYWELL 1740 CREEKSIDE DAKS SACRAMENTO, CA 95833 Not reported	Site Database(s) Site Database(s) FUNDATION HLTH/MATOMAS (Continued) Marteported AST Bill Code: Not reported AST Bill Code: Not reported MCI TELECOMMUNICATIONS TAGCRAMENTO, CA S9533 Sacramento Co. ML Martes: TAGORENTO, CA S9533 Ster 1 of 2 in cluster B Sacramento Co. ML: Name: TAGORENTO, CA S9533 Sacramento Co. ML: Not reported Martes: TAGORENTO, CA S9533 Sacramento Co. ML: Not reported Martes: Intervented Status Pacity Status: Intervented Status Pacity Status: Intervented Status Pacity Status: Intervented Status Biling Codes BP: Not reported Status Biling Codes BP: Not reported Status Biling Codes BP: Not reported Status CUPA Premit Date: Not reported Status Martes Status

Map ID Direction		MAP FINDINGS			
Distance Elevation	Site		Database(s)	EDR ID Number EPA ID Number	
	HONEYWELL (Continued) HAZMAT Inspection Date: Hazmat Date BP Received: UST Permit Dt: UST Inspection Date: UST Tank Test Date: Number of Tanks: UST Tank Test Date: SIC Code: Tier Permitting: AST Bill Code: CALARP Bill Code:	Not reported Not reported Not reported Not reported 0 Not reported 7382 Not reported Not reported Not reported Not reported		S123291754	
11 ENE 1/4-1/2 0.312 mi. 1650 ft	SHELL SERVICE STATION 1599 W EL CAMINO SACRAMENTO, CA 95833		LUST CA FID UST Cortese CERS	S101590824 N/A	
Relative: Lower Actual: 17 ft.	LUST REG 5: Name: SHELL SERVIC Address: 1599 WEST EL City: SACRAMENTO Region: 5 Status: Not reported Case Number: 341395 Case Type: Other ground w Substance: GASOLINE Staff Initials: VJF Lead Agency: Local Program: LUST MTBE Code: N/A	CE STATION CAMINO AVENUE			
	LUST: Name: Address: City,State,Zip: Lead Agency: Case Type: Geo Track: Global Id: Latitude: Longitude: Status: Status Date: Case Worker: RB Case Number: Local Agency: File Location: Local Case Number: Potential Media Affect: Potential Media Affect: Potential Contaminants of Concer Site History: LUST: Global Id: Contact Type: Contact Name: Organization Name:	SHELL SERVICE STATION 1599 WEST EL CAMINO AVENUE SACRAMENTO, CA 95833 SACRAMENTO COUNTY LOP LUST Cleanup Site http://geotracker.waterboards.ca.gov/profile_ T0606783253 38.612969813 -121.4976787 Completed - Case Closed 04/12/2011 JJB 341395 SACRAMENTO COUNTY LOP Local Agency G014 Other Groundwater (uses other than drinking n: Gasoline See GeoTrack link for Site History T0606783253 Local Agency Caseworker JACK BELLAN SACRAMENTO COUNTY LOP	_report.asp?global_id=1 g water)	-0606783253	

Database(s)

EDR ID Number **EPA ID Number**

SHELL SERVICE STATION (Continued) Address: 10590 Armstong Ave., Suite A Mather City: bellanj@saccounty.net Email: Phone Number: Not reported Global Id: T0606783253 Contact Type: Regional Board Caseworker Contact Name: **VERA FISCHER** Organization Name: CENTRAL VALLEY RWQCB (REGION 5S) Address: 11020 SUN CENTER DRIVE #200 City: **RANCHO CORDOVA** Email: vera.fischer@waterboards.ca.gov Phone Number: Not reported LUST: Global Id: T0606783253 ENFORCEMENT Action Type: Date: 10/05/2004 Action: File review Global Id: T0606783253 Action Type: ENFORCEMENT Date: 07/21/2004 Action: File review Global Id: T0606783253 ENFORCEMENT Action Type: 08/25/2004 Date: Action: File review Global Id: T0606783253 Action Type: ENFORCEMENT 12/29/2004 Date: File review Action: Global Id: T0606783253 Action Type: ENFORCEMENT Date: 08/27/2007 Action: File review Global Id: T0606783253 Action Type: ENFORCEMENT Date: 06/02/2008 Action: File review Global Id: T0606783253 Action Type: ENFORCEMENT 10/30/2008 Date: Action: File review Global Id: T0606783253 Action Type: ENFORCEMENT Date: 10/21/2008 Action: File review Global Id: T0606783253 ENFORCEMENT

Action Type:

Database(s)

EDR ID Number EPA ID Number

S101590824

LL SERVICE STATION (Continu	ed)
Date:	03/03/2005
Action:	File review
Global Id:	T0606783253
Action Type:	ENFORCEMENT
Date:	02/18/2009
Action:	File review
Global Id:	T0606783253
Action Type:	Other
Date:	08/28/2002
Action:	Leak Reported
Global Id:	T0606783253
Action Type:	ENFORCEMENT
Date:	05/11/2005
Action:	File review
Global Id:	T0606783253
Action Type:	ENFORCEMENT
Date:	08/30/2005
Action:	File review
Global Id:	T0606783253
Action Type:	ENFORCEMENT
Date:	02/08/2008
Action:	File review
Global Id:	T0606783253
Action Type:	ENFORCEMENT
Date:	08/14/2006
Action:	File review
Global Id:	T0606783253
Action Type:	ENFORCEMENT
Date:	02/05/2007
Action:	File review
Global Id:	T0606783253
Action Type:	ENFORCEMENT
Date:	05/03/2006
Action:	File review
Global Id:	T0606783253
Action Type:	ENFORCEMENT
Date:	11/01/2005
Action:	File review
Global Id:	T0606783253
Action Type:	ENFORCEMENT
Date:	07/29/2008
Action:	File review
Global Id:	T0606783253
Action Type:	ENFORCEMENT
Date:	01/07/2004
Action:	File review

SHEL

Database(s)

EDR ID Number EPA ID Number

SHELL SERVICE STATION (Continued)

LL SERVICE STATION (Continu	ed)
Global Id:	T0606783253
Action Type:	ENFORCEMENT
Date:	07/24/2009
Action:	Tachnical Carrospondance / Assistance / Other
Action.	rechnical Correspondence / Assistance / Other
Global Id:	T0606783253
Action Type:	ENFORCEMENT
Date:	09/17/2009
Action	File review
Global Id:	T0606783253
Action Type:	ENFORCEMENT
Date:	04/21/2009
Action	Technical Correspondence / Assistance / Other
Global Id:	T0606783253
Action Type:	ENFORCEMENT
Date:	10/21/2002
Action:	Notice of Responsibility
Global Id:	T0606783253
Action Type:	RESPONSE
Date:	03/24/2009
Action:	Correspondence
Action.	Conespondence
Global Id:	T0606783253
Action Type:	ENFORCEMENT
Date:	11/01/2007
Action:	File review
Action.	
Global Id:	T0606783253
Action Type:	ENFORCEMENT
Date:	10/06/2010
Date.	Chaff h attar
Action.	Stan Letter
Global Id:	T0606783253
Action Type:	ENEORCEMENT
Dete:	04/10/2007
Dale.	
Action:	File review
Global Id:	T0606783253
Action Type:	ENFORCEMENT
Date:	01/29/2007
Action	Verbal Communication
Action.	Verbar Communication
Global Id:	T0606783253
Action Type:	ENFORCEMENT
Date:	07/12/2006
Action:	Technical Correspondence / Assistance / Other
Action.	rechnical correspondence / Assistance / Other
Global Id:	T0606783253
Action Type:	ENFORCEMENT
Date:	10/12/2010
Duto.	Technical Correspondence / Assistance / Other
Action:	
Action:	Technical Correspondence / Assistance / Other
Action: Global Id:	T0606783253
Action: Global Id: Action Type:	T0606783253 ENFORCEMENT

Database(s)

EDR ID Number EPA ID Number

SHELL SERVICE STATION (Continued)

	Date:	03/14/2007
	Action:	Meeting
		-
	Global Id:	T0606783253
	Action Type:	ENFORCEMENT
	Date:	10/31/2006
	Action:	Technical Correspondence / Assistance / Other
	Global Id:	T0606783253
	Action Type:	ENFORCEMENT
	Date:	11/30/2006
	Action:	File review
	Clobal Ide	T0000782052
		10000763233
	Action Type:	
	Date:	08/11/2002
	Action:	Leak Discovery
	Global Id:	T0606783253
	Action Type:	REMEDIATION
	Date:	11/15/2005
	Action:	Pump & Treat (P&T) Groundwater
	Global Id:	T0606783253
	Action Type:	ENFORCEMENT
	Date:	05/19/2008
	Action:	File review
	Global Id:	10606783253
	Action Type:	ENFORCEMENT
	Date:	08/08/2005
	Action:	File review
	Global Id:	T0606783253
	Action Type:	ENEORCEMENT
	Date:	07/13/2007
	Action:	Technical Correspondence / Assistance / Other
	Global Id:	T0606783253
	Action Type:	ENFORCEMENT
	Date:	05/03/2004
	Action:	File review
		T0000700050
	Global Id:	10606783253
	Action Type:	Other
	Date:	08/11/2002
	Action:	Leak Stopped
Ll	JST:	
	Global Id:	T0606783253
	Status:	Open - Case Begin Date
	Status Date:	08/11/2002
	Clobal Id:	T0606782252
	Stotuc:	10000703233 Onon
	Status Data	Open 10/01/0000
	Status Date:	10/21/2002

Database(s)

EDR ID Number EPA ID Number

Global Id:	T0606783253
Status:	Open - Verification Monitoring
Status Date:	10/21/2002
Global Id:	T0606783253
Status:	Completed - Case Closed
Status Date:	04/12/2011
A FID UST:	0.4000000
Facility ID:	34006893
Regulated By:	UINKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	
Facility Phone:	Not reported
Mail IO:	
walling Address:	1390 WILLOW PASS RD
Mailing Address 2:	
ivialling City,St,Zip:	
Contact:	Not reported
Contact Phone:	Not reported
	Not reported
NPDES Number:	Not reported
EPA ID: Commonto:	Not reported
Comments:	Activo
Status.	Active
ORTESE:	
Name:	SHELL SERVICE STATION
Address:	1599 WEST EL CAMINO AVENUE
City,State,Zip:	SACRAMENTO, CA 95833
Region:	CORTESE
Envirostor Id:	
Global ID: Site /Ee sility Tyre to	
Site/Facility Type:	
Cleanup Status:	COMPLETED - CASE GLOSED
Sidius Date:	Not reported
Sile Code.	Not reported
	Not reported
Owner:	Not reported
Enf Type	Not reported
Swat R	Not reported
Flag.	active
Order No	Not reported
Waste Discharge St	Interported
Effective Date:	Not reported
Region 2.	Not reported
WID Id	Not reported
Solid Waste Id No.	Not reported
Waste Management	Llit Name: Not reported
File Name:	Active Open
ERS:	
Name:	SHELL SERVICE STATION

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

SHELL SERVICE STATION (Continued)

	Address: City,State,Zip: Site ID: CERS ID: CERS Descriptio	n:	1599 WEST EL CAMINO AVENUE SACRAMENTO, CA 95833 229635 T0606783253 Leaking Underground Storage Tank Cleanup Site		
	Affiliation: Affiliation Type I Entity Name: Entity Title: Affiliation Addres Affiliation City: Affiliation State: Affiliation Countr Affiliation Zip: Affiliation Phone	Desc: ss: y:	Regional Board Caseworker VERA FISCHER - CENTRAL VALLEY RWQCB (REGION 55 Not reported 11020 SUN CENTER DRIVE #200 RANCHO CORDOVA CA Not reported Not reported Not reported	5)	
	Affiliation Type D Entity Name: Entity Title: Affiliation Address Affiliation City: Affiliation State: Affiliation Countr Affiliation Zip: Affiliation Phone	besc: ss: y:	Local Agency Caseworker JACK BELLAN - SACRAMENTO COUNTY LOP Not reported 10590 Armstong Ave., Suite A Mather CA Not reported Not reported Not reported		
12 WSW 1/4-1/2 0.366 mi. 1935 ft.	CHRISTOFER OAKS 2500 VENTURE OAK SACRAMENTO, CA	ONE S 95833	L Sacramento Co Co HIST CORT	-UST b. CS rtese FESE CERS	S102427872 N/A
Relative: Higher Actual: 18 ft.	LUST REG 5: Name: Address: City: Region: Status: Case Number: Case Type: Substance: Staff Initials: Lead Agency: Program: MTBE Code:	CHRISTOFER OA 2500 VENTURE O SACRAMENTO 5 Case Closed 340665 Soil only HYDRAULIC OIL VJF Local LUST N/A	AKS ONE DAKS WAY		
	LUST: Name: Address: City,State,Zip: Lead Agency: Case Type: Geo Track: Global Id: Latitude: Longitude:		CHRISTOFER OAKS ONE 2500 VENTURE OAKS WAY SACRAMENTO, CA 95833 SACRAMENTO COUNTY LOP LUST Cleanup Site http://geotracker.waterboards.ca.gov/profile_report.asp?globa T0606700566 38.610114 -121.51145	al_id=T	0606700566

Database(s)

EDR ID Number EPA ID Number

Status Date: 07/29/1994 Case Worker: Not reported RB Case Number: 340665 Local Case Number: B54 Potential Media Affect: Soil Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating Site History: Not reported LUST: Global Id: T0606700566 Contact Type: Regional Board Caseworker Contact Type: Regional Board Caseworker Organization Name: CENTRAL VALLEY RWQCB (REGION 5S) Address: 11020 SUN CENTER DRIVE #2200 City: RANCHO CORDOVA Email: vera.fischer@waterboards.dargov Phone Number: Not reported LUST: Global Id: T0606700566 Action Type: Other Date: 10/16/1992 Action: Leak Reported UST: Global Id: T0606700566 Status: Open * Case Begin Date Date: 04/10/1992 Action: Leak Discovery LUST: Global Id: T0606700566 Status: Open - Site Assessment </th <th>Status:</th> <th>Completed - Case Closed</th>	Status:	Completed - Case Closed
Case Worker:Not reportedRB Case Number:340665Local Agency:Not reportedFile Location:Not reportedLocal Case Number:B554Potential Media Affect:SoilPotential Contaminants of Concern:Waste Oil / Motor / Hydraulic / LubricatingSite History:Not reportedLUST:Global Id:Global Id:T0606700566Contact Type:Regional Board CaseworkerContact Name:VERA FISCHEROrganization Name:CENTRAL VALLEY RWQCB (REGION 5S)Address:11020 SUN CENTER DRIVE #200City:RANCHO CORDOVAEmail:vera.fischer@waterboards.cargovPhone Number:Not reportedLUST:Global Id:Global Id:1066700566Action:Leak ReportedCiton:Leak ReportedLUST:Global Id:Global Id:70606700566Action:Leak ReportedLUST:Global Id:Global Id:70606700566Status:Open - Case Begin DateStatus:Open - Case Begin DateStatus:Open - Site AssessmentStatus:Open - Site Assess	Status Date:	07/29/1994
RB Case Number: 340665 Local Agenoy: Not reported File Location: Not reported Local Case Number: B554 Potential Media Affect: Soil Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating Site History: Not reported LUST: Global Id: T0606700566 Contact Type: Regional Board Caseworker Contact Type: Regional Board Caseworker Contact Name: CENTRAL VALLEY RWQCB (REGION 5S) Address: 11020 SUN CENTER DRIVE #200 City: RANCHO CORDOVA Email: vera.fischer@waterboards.da.gov Phone Number: Not reported LUST: Global Id: T0606700566 Action Type: Other Date: 10/16/1992 Action: Leak Reported UUST: Global Id: T0606700566 Status: Open * Case Begin Date Status: Open * Site Assessment Status: Open - Site Assessment Status: Open - Site Assessment Status: Open - Site As	Case Worker:	Not reported
Local Agency:Not reportedFile Location:Not reportedLocal Case Number:B554Potential Contaminants of Concern:Waste Oil / Motor / Hydraulic / LubricatingSite History:Not reportedLUST:T0606700566Contact Type:Regional Board CaseworkerOrganization Name:CENTRAL VALLEY RWQCB (REGION 5S)Address:11020 SUN CENTER DRIVE #200City:RANCHO CORDOVAEmail:vera.fischer@waterboards.ce.govPhone Number:Not reportedLUST:Global Id:Global Id:T0606700566Action Type:OtherDate:10/16/1992Action:Leak ReportedGlobal Id:T0606700566Action:Leak ReportedGlobal Id:T0606700566Action:Leak ReportedUST:Global Id:Time:07/23/1992Action:Leak ReportedUST:Global Id:Global Id:T0606700566Status:Open - Site AssessmentStatus Date:04/10/1992Global Id:T0606700566Status:Open - Site AssessmentStatus Date:04/10/1992Global Id:T0606700566Status:Open - Site AssessmentStatus Date:04/10/1992Global Id:T0606700566Status:Open - Site AssessmentStatus Date:0/27/23/1992Global Id:T0606700566Status:Open - Site AssessmentStatus Da	RB Case Number:	340665
File Location: Not reported Local Case Number: B554 Potential Media Affect: Soil Potential Contaminants of Concern: Waste Oli / Motor / Hydraulic / Lubricating Site History: Not reported LUST: Global Id: T0606700566 Contact Type: Regional Board Caseworker Organization Name: CENTRAL VALLEY RWQCB (REGION 5S) Address: 11020 SUN CENTER DRIVE #200 City: RANCHO CORDOVA Email: vera.fischer@waterboards.corgov Phone Number: Not reported LUST: Global Id: T0606700566 Action: Leak Reported LUST: Global Id: T0606700566 Action: Leak Discovery Action: Leak Discovery LUST: Global Id: T0606700566 Status: Open - Case Begin Date Date: 04/10/1992 Global Id: T0606700566 Status: Open - Site Assessment Status: Open - Site Assessment Status Date: 04/10/1992 Global Id: T06067005	Local Agency:	Not reported
Local Case Number: B554 Potential Media Affect: Soil Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating Site History: Not reported LUST: Global Id: T0606700566 Contact Type: Regional Board Caseworker Contact Name: VERA FISCHER Organization Name: CENTRAL VALLEY RWOCB (REGION 5S) Address: 11020 SUN CENTER DRIVE #200 City: RANCHO CORDOVA Email: vera.fischer@waterboards.ce.gov Phone Number: Not reported LUST: Global Id: T0606700566 Action Type: Other Date: 10/16/1992 Action: Leak Reported Global Id: T0606700566 Status: Open - Case Begin Date Dtrive: Other Date: 04/10/1992 Global Id: T0606700566 Status: Open - Site Assessment Status Date: 04/10/1992 Global Id: T0606700566 Status: Open - Site Assessment Status Date: 07/23/1992 Global Id: T0606700566 Status: Open - Site Assessment Status Date: 07/23/1992 Global Id: T0606700566 Status: Open - Site Assessment Status Date: 07/23/1992 Global Id: T0606700566 Status: Open - Site Assessment Status Date: 07/23/1992 Global Id: T0606700566 Status: Open - Site Assessment Status Date: 07/23/1992 Global Id: T0606700566 Status: Open - Site Assessment Status Date: 07/23/1992 Global Id: T0606700566 Status: Open - Site Assessment Status Date: 07/23/1992 Global Id: T0606700566 Status: Open - Site Assessment Status Date: 07/23/1992 Global Id: T0606700566 Status: Open - Site Assessment Status Date: 07/23/1992 Global Id: T0606700566 Status: Open - Site Assessment Status Date: 07/23/1992 Global Id: T0606700566 Status: Open - Site Assessment Status Date: 07/23/1992 Global Id: T0606700566 Status: Open - Site Assessment Status Date: 07/23/1992 Global Id: T0606700566 Status: Open - Site Assessment Status Date: 07/23/1992 Global Id: T0606700566 Status: Open - Site Assessment Status Date: 07/23/1992 Global Id: T0606700566 Status: Open - Site Assessment Status Date: 07/23/1993 Global Id: T0606700566 Status: Open - Site Assessment Status Date: 07/23/1993 Global Id: T0606700566 Status: Open - Site Assessment Status Date: 07/23/1993 Global Id: T0606700566 Status: Open - S	File Location:	Not reported
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating Site History: Not reported LUST: Global Id: T0606700566 Contact Name: VERA FISCHER Organization Name: CENTRAL VALLEY RWQCB (REGION 5S) Address: 11020 SUN CENTER DRIVE #200 City: RANCHO CORDOVA Email: vera.fischer@waterboards.ca.gov Phone Number: Not reported LUST: Global Id: Global Id: T0606700566 Action Type: Other Date: 10/16/1992 Action: Leak Reported Global Id: T0606700566 Action: Leak Discovery LUST: Global Id: Global Id: T0606700566 Action: Leak Discovery LUST: Global Id: Global Id: T0606700566 Status: Open - Case Begin Date Date: 04/10/1992 Global Id: T0606700566 Status Date: 04/10/1992 Global Id: T0606700566 Status Date:	Local Case Number:	B554
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating Site History: Not reported LUST: Global Id: T0606700566 Contact Type: Regional Board Caseworker Contact Name: VERA FISCHER Organization Name: CENTRAL VALLEY RWQCB (REGION 5S) Address: 11020 SUN CENTER DRIVE #200 City: RANCHO CORDOVA Email: vera.fischer@waterboards.ca.gov Phone Number: Not reported LUST: Global Id: T0606700566 Action Type: Other Date: 10/16/1992 Action: Leak Reported Global Id: T0606700566 Status: Open - Site Assessment Status Date: 07/23/1992 Global Id: T0606700566 Status: Open - Site Assessment Status Date: 08/04/1993 Global Id: T0606700566 Status: Open - Site Assessment Status Date: 08/04/1993 Global Id: T0606700566 Status: Open - Site Assessment Status Date: 08/04/1993 Global Id: T0606700566 Status: Completed - Case Closed Status Date: 07/29/1994	Potential Media Affect:	Soil
Site History: Not reported LUST: Global Id: T0606700566 Contact Type: Regional Board Caseworker Organization Name: VERA FISCHER Organization Name: CENTRAL VALLEY RWQCB (REGION 5S) Address: 11020 SUN CENTER DRIVE #200 City: RANCHO CORDOVA Email: vera.fischer@waterboards.cia.gov Phone Number: Not reported LUST: Global Id: Global Id: T0606700566 Action Type: Other Date: 10/16/1992 Action: Leak Reported LUST: Global Id: Global Id: T0608700566 Action Type: Other Date: 07/23/1992 Action: Leak Discovery LUST: Global Id: T0606700566 Status: Open - Case Begin Date Status: Open - Site Assessment	Potential Contaminants	of Concern: Waste Oil / Motor / Hydraulic / Lubricating
LUST:T0606700566Contact Type:Regional Board CaseworkerOrganization Name:CENTRAL VALLEY RWQCB (REGION 5S)Address:11020 SUN CENTER DRIVE #200City:RANCHO CORDOVAEmail:vera.fischer@waterboards.da.govPhone Number:Not reportedLUST:Global Id:Global Id:T0606700566Action Type:OtherDate:10/16/1992Action:Leak ReportedGlobal Id:T0606700566Action:Leak ReportedUST:OtherDate:0/12/1992Action:Leak DiscoveryLUST:Global Id:Global Id:T0606700566Action:Leak DiscoveryLUST:Global Id:Global Id:T0606700566Status:Open - Case Begin DateStatus Date:04/10/1992Global Id:T0606700566Status:Open - Site AssessmentStatus Date:04/10/1992Global Id:T0606700566Status:Open - Site AssessmentStatus Date:07/23/1992Global Id:T0606700566Status:Open - Site AssessmentStatus Date:08/04/1993Global Id:T0606700566Status:Open - Site AssessmentStatus Date:08/04/1993Global Id:T0606700566Status:Open - Site AssessmentStatus Date:08/04/1993Global Id:T0606700566Status:Completed - Case	Site History:	
Global Id:10606700566Contact Name:VERA FISCHEROrganization Name:CENTRAL VALLEY RWQCB (REGION 55)Address:11020 SUN CENTER DRIVE #200City:RANCHO CORDOVAEmail:vera.fischer@waterboards.da.govPhone Number:Not reportedLUST:Global Id:Global Id:T0606700566Action Type:OtherDate:10/16/1992Action:Leak ReportedGlobal Id:T0606700566Action Type:OtherDate:10/16/1992Action:Leak ReportedUUST:OtherGlobal Id:T0606700566Action:Leak DiscovertyLUST:Global Id:Global Id:T0606700566Status:Open - Case Begin DateStatus:Open - Site AssessmentStatus:Open - Site Assessment<	LUST:	T 0000700700
Contact 1/pe:Regional Board CaseworkerContact Name:VERA FISCHEROrganization Name:CENTRAL VALLEY RWQCB (REGION 5S)Address:11020 SUN CENTER DRIVE #200City:RANCHO CORDOVAEmail:vera.fischer@waterboards.ca.govPhone Number:Not reportedLUST:Global Id:Global Id:T0606700566Action Type:OtherDate:10/16/1992Action:Leak ReportedGlobal Id:T0606700566Action:Leak ReportedGlobal Id:T0606700566Status:Open - Case Begin DateDate:04/10/1992Global Id:T0606700566Status:Open - Site AssessmentStatus Date:04/10/1992Global Id:T0606700566Status:Open - Site AssessmentStatus Date:08/04/1993Global Id:T0606700566Status:Open - Site AssessmentStatus Date:08/04/1993Global Id:T0606700566Status:Open - Site AssessmentStatus Date:08/04/1993Global Id:T0606700566Status:Completed - C	Global Id:	
Contact Name:VERA FISCHEROrganization Name:CENTRAL VALLEY RWQCB (REGION 5S)Address:11020 SUN CENTER DRIVE #200City:RANCHO CORDOVAEmail:vera.fischer@waterboards.dargovPhone Number:Not reportedLUST:Global Id:Global Id:T0606700566Action Type:OtherDate:10/16/1992Action:Leak ReportedGlobal Id:T0606700566Action:Leak ReportedGlobal Id:T0606700566Action:Leak DiscoveryLUST:OtherDate:0/16/1992Action:Leak DiscoveryLUST:Global Id:Global Id:T0606700566Status:Open - Case Begin DateStatus Date:04/10/1992Global Id:T0606700566Status:Open - Site AssessmentStatus Date:04/10/1992Global Id:T0606700566Status:Open - Site AssessmentStatus Date:07/23/1992Global Id:T0606700566Status:Open - Site AssessmentStatus Date:08/04/1993Global Id:T0606	Contact Type:	
Organization Name: CENTRAL VALLEY RWOOD (REGION SS) Address: 11020 SUN CENTER DRIVE #200 City: RANCHO CORDOVA Email: vera.fischer@waterboards.da.gov Phone Number: Not reported LUST: Global Id: Global Id: T0606700566 Action Type: Other Date: 10/16/1992 Action: Leak Reported Global Id: T0606700566 Action: Leak Reported Date: 07/23/1992 Action: Leak Discovery LUST: Global Id: Global Id: T0606700566 Status: Open - Case Begin Date Status: Open - Site Assessment Status: Open - Site Assessment Global Id: T0606700566 Status: Open - Site Assessment Status Date: 07/23/1992 Global Id: T0606700566 Status Date: 07/23/1992 Global Id: T0606700566 Status Date: 07/23/1992 Global Id: T0606700566 Statu	Contact Name:	
Address.Troco SUN CENTER DRIVE #2007City:RANCHO CORDOVAEmail:vera.fischer@waterboards.ca.govPhone Number:Not reportedLUST:Global Id:Global Id:T0606700566Action:Leak ReportedDate:10/16/1992Action:Leak ReportedGlobal Id:T0606700566Action:Leak ReportedUST:OtherDate:07/23/1992Action:Leak DiscoveryLUST:Global Id:Global Id:T0606700566Status:Open - Case Begin DateStatus Date:04/10/1992Global Id:T0606700566Status:Open - Site AssessmentStatus Date:04/10/1992Global Id:T0606700566Status:Open - Site AssessmentStatus Date:04/10/1992Global Id:T0606700566Status:Open - Site AssessmentStatus Date:07/23/1992Global Id:T0606700566Status:Open - Site AssessmentStatus Date:07/23/1992Global Id:T0606700566Status:Open - Site AssessmentStatus Date:08/04/1993Global Id:T0606700566Status:Open - Site AssessmentStatus Date:08/04/1993Global Id:T0606700566Status:Completed - Case ClosedStatus Date:07/29/1994	Organization Name:	GENTRAL VALLEY RWQUB (REGION 55)
CityFANCHO CORDUVAEmail:vera.fischer@waterboards.ca.govPhone Number:Not reportedLUST:Global Id:Global Id:T0606700566Action:Leak ReportedGlobal Id:T0606700566Action Type:OtherDate:0/16/1992Action:Leak ReportedGlobal Id:T0606700566Action:Leak DiscoveryLUST:OfferDate:0/1/23/1992Action:Leak DiscoveryLUST:Global Id:Global Id:T0606700566Status:Open * Case Begin DateStatus Date:0/4/10/1992Global Id:T0606700566Status:Open - Site AssessmentStatus Date:0/1/23/1992Global Id:T0606700566Status:Open - Site AssessmentStatus Date:0/1/23/1992Global Id:T0606700566Status:Open - Site AssessmentStatus Date:0/1/23/1992Global Id:T0606700566Status:Open - Site AssessmentStatus Date:08/04/1993Global Id:T0606700566Status:Completed - Case ClosedStatus Date:07/29/1994	Address:	
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Status Date: 07/29/1994	Status:	Completed - Case Closed
	Status Date:	07/29/1994
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Database(s)

EDR ID Number EPA ID Number

CHRISTOFER OAKS ONE (Continued) S102427872 Address: 2500 VENTURE OAKS WAY SACRAMENTO, CA City,State,Zip: State Site Number: B554 Lead Staff: Erikson, S. Lead Agency: HM Remedial Action Taken: YE, S Hydraulic Oil Substance: 05/19/1992 Date Reported: Facility Id: RO0001124 Case Type: Other ground water affected Case Closed: Y 08/08/1994 Date Closed: Other Groundwater affected (uses other than drinking water) Case Type: Substance: Hydraulic Oil CORTESE: CHRISTOFER OAKS ONE Name: Address: 2500 VENTURE OAKS WAY SACRAMENTO, CA 95833 City,State,Zip: CORTESE Region: Envirostor Id: Not reported Global ID: T0606700566 LUST CLEANUP SITE Site/Facility Type: COMPLETED - CASE CLOSED **Cleanup Status:** Not reported Status Date: Site Code: Not reported Not reported Latitude: Longitude: Not reported Owner: Not reported Not reported Enf Type: 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: CHRISTOFER OAKS ONE edr_fadd1: 2500 VENTURE OAKS SACRAMENTO, CA 95833 City,State,Zip: Region: CORTESE Facility County Code: 34 Reg By: LTNKA Reg Id: 340665 CERS: CHRISTOFER OAKS ONE Name: Address: 2500 VENTURE OAKS WAY City,State,Zip: SACRAMENTO, CA 95833 Site ID: 244814 T0606700566 CERS ID:

EDR ID Number Database(s) EPA ID Number

	CHRISTOFER OAKS ONE (Continued)		S102427872	
	CERS Description:	Leaking Underground Storage Tank Cleanup Site		
	Affiliation: Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation Country: Affiliation Country: Affiliation Zip: Affiliation Phone:	Regional Board Caseworker VERA FISCHER - CENTRAL VALLEY RWQCB (REGION 5S) Not reported 11020 SUN CENTER DRIVE #200 RANCHO CORDOVA CA Not reported Not reported Not reported		
ni.	DISCOVERY PLAZA (FORMER SAGE C 1500-1590 WEST EL CAMINO AVENUE SACRAMENTO, CA	CPS-SLIC CERS	S106486442 N/A	
	Site 1 of 2 in cluster C			
e:	CPS-SLIC:			
	Name:	DISCOVERY PLAZA (FORMER SAGE CLEANERS)		
	Address. City State Zin:	SACRAMENTO CA		
	Region:	STATE		
	Facility Status:	Completed - Case Closed		
	Status Date:	03/02/1999		
	Global Id:	SLT5\$1243164		
	Lead Agency:	CENTRAL VALLEY RWQCB (REGION 5S)		
	Lead Agency Case Number:	Not reported		
	Landude.	-121 535125		
	Case Type:	Cleanup Program Site		
	Case Worker:	ZZZ		
	Local Agency:	Not reported		
	RB Case Number:	SLT5S124		
	File Location:	Regional Board		
	Potential Media Affected:	Other Groundwater (uses other than drinking water), Soil		
	Potential Contaminants of Concern:	Not reported		
	Site History.	Not reported		
	Click here to access the California GeoTracker records for this facility:			
	CERS:			
	Name:	DISCOVERY PLAZA (FORMER SAGE CLEANERS)		
	Address:	1500-1590 WEST EL CAMINO AVENUE		
	City,State,Zip:	SACRAMENTO, CA		
	Site ID:	255929		
	CERS ID:	SLT5S1243164		
	CERS Description. Cleanup Program Site			
	Affiliation:			
	Affiliation Type Desc:	Regional Board Caseworker		
	Entity Name:	zzz - CENTRAL VALLEY RWQCB (REGION 5S)		
	Entity Litle:	Not reported		
	Affiliation Address:	11020 SUN CENTER DRIVE #200 RANCHO CORDOVA		
	Anniation Gity.			

Map ID Direction		MAP FINDINGS		
Elevation	Site		Database(s)	EPA ID Number
	DISCOVERY PLAZA (FORMER SAGE Affiliation Country: Affiliation Zip: Affiliation Phone:	CLEANERS) (Continued) Not reported Not reported Not reported		S106486442
C14 ENE 1/4-1/2 0.443 mi. 2337 ft.	DISCOVERY PLAZA SHOPPING CENT 1500 WEST EL CAMINO AVENUE SACRAMENTO, CA 95833 Site 2 of 2 in cluster C	ER	CPS-SLIC CERS	S106855373 N/A
Relative: Lower Actual: 17 ft.	CPS-SLIC: Name: Address: City,State,Zip: Region: Facility Status: Status Date: Global Id: Lead Agency: Lead Agency Case Number: Latitude: Longitude: Case Type: Case Worker: Local Agency: RB Case Number: File Location: Potential Media Affected: Potential Media Affected: Potential Contaminants of Concern Site History: Click here to access the California CERS: Name: Address: City,State,Zip: Site ID: CERS ID: CERS ID:	DISCOVERY PLAZA SHOPPING CENTER 1500 WEST EL CAMINO AVENUE SACRAMENTO, CA 95833 STATE Completed - Case Closed 03/31/2011 SL0606778991 SACRAMENTO COUNTY LOP C259 38.612121 -121.494878 Cleanup Program Site Not reported Not reported Local Agency Other Groundwater (uses other than drinking tranchloroethylene (PCE), Trichloroethylene See GeoTrack link for Site History GeoTracker records for this facility: DISCOVERY PLAZA SHOPPING CENTER 1500 WEST EL CAMINO AVENUE SACRAMENTO, CA 95833 199670 SL0606778991 Closour Bragram Site	y water) e (TCE)	
	CERS Description: Affiliation: Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:	Cleanup Program Site Regional Board Caseworker DURIN LINDERHOLM - CENTRAL VALLEY Not reported 11020 Sun Center Drive, Suite 200 RANCHO CORDOVA CA Not reported Not reported 9164644657	RWQCB (REGION 5S)

Database(s)

EDR ID Number EPA ID Number

15 SSE 1/2-1 0.835 mi. 4411 ft.	BIGGERS INDUSTRIAL GARLIN 551 SEQUOIA PACIFIC SACRAMENTO, CA 95814	ENVIROSTOR S10 CHMIRS N/ HIST CORTESE	0275552 /A
Relative: Higher Actual: 22 ft.	ENVIROSTOR: Name: BIG Address: 551 City,State,Zip: SAG Facility ID: 343 Status: No Status Date: 09/3 Site Code: 100 Site Type: Hist Site Type Detailed: * Hi Acres: 0 NPL: NO Regulatory Agencies: NO Lead Agency: NO Lead Agency: NO Program Manager: Not Supervisor: Ste Division Branch: Cle Assembly: 07 Senate: 06 Special Program: Not Restricted Use: NO Site Mgmt Req: NO Funding: Not Latitude: 38.3 Longitude: -12 APN: 001 Past Use: ILL PLA Potential COC: COC Confirmed COC: Lea Potential Description: OTT Alias Name: Alias Type: Alias Type: Alias Name: Alias Type: Alias Name: Alias Type: Completed Info: Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	AGERS INDUSTRIAL GERLINGER SEQUOIA PACIFIC BOULEVARD CRAMENTO, CA 95814 M0018 Further Action 30/1992 233 torical istorical NE SPECIFIED reported ven Becker anup Sacramento reported NE SPECIFIED reported S9002 14960 02000350000 EGAL DUMPING, ILLEGAL DUMPING, METAL PLATING - CHROME, METAL ANNG - OTHER ONTAMINATED SOIL Lead Chromium VI Lead Chromium VI a Chromium VI N SOIL, CS8, OTH, SOIL 00102000350000 APN 490239 Project Code (Site Code) 34340018 Envirostor ID Number PROJECT WIDE Not reported Preliminary Endangerment Assessment Report 09/30/1992 PEA completed. Low levels of CrVI were detected in the shallow (15ft) ground water (023 ppm). Elevated lead and chromium some in 1988 S&E investigation apparently were removed with a railroad spur sometime during the transfer of ownership. Remaining lead and chromium are at acceptable levels for the current and projected land use of commercial/ industrial. No further action required by DTSC. RWQCB informed of low CrVI levels.	
	Completed Area Name: Completed Sub Area Name: Completed Document Type:	PROJECT WIDE Not reported * Expedited Response Action	

Database(s)

EDR ID Number EPA ID Number

Completed Deter	06/20/4002	
Completed Date: Comments:	Not reported	
Completed Area Name:	PROJECT WIDE	
Completed Sub Area Name:	Not reported	
Completed Document Type:	Site Screening	
Completed Date:	12/18/1989	
Comments:	SITE SCREENING DONE PROPERTY OWNE	D BY MARVIN OATES AND RICK MASSIE.
	DRAIN: RECOMMEND PRELIMINARY ENDAL	IN 1988. NO CLEANUP DONE IN AREA OF
	PRIORITY).	
Completed Area Name:	PROJECT WIDE	
Completed Sub Area Name:	Not reported	
Completed Document Type:	Site Screening	
Completed Date:		
Comments.	(IF ANY).	Request Documentation of Clean-C
Completed Area Name:	PROJECT WIDE	
Completed Sub Area Name:	Not reported	
Completed Document Type:	* Discovery	
Completed Date:	FACILITY IDENTIFIED COMPLAINT RECEIVE	
Comments.	BEING DUMPED AT RAILROAD TRACKS.	D INDICATING 33-GALLON DICOMS
Future Area Name:	Not reported	
Future Sub Area Name:	Not reported	
Future Document Type:	Not reported	
Future Due Date:	Not reported	
Schedule Sub Area Name	Not reported	
Schedule Document Type:	Not reported	
Schedule Due Date:	Not reported	
Schedule Revised Date:	Not reported	
HMIRS:		
Name:	Not reported	
Address:	551 SEQUOIA PACIFIC BL	
City,State,Zip:	SACRAMENTO, CA 95814	
OES Incident Number:	000520 Not reported	
OES Notification.	Not reported	
OES Time:	Not reported	
Date Completed:	07-MAR-90	
Property Use:	500	
Agency Id Number:	34080	
Agency Incident Number:	7459	
Time Notified:	1511	
Time Completed:	1623	
Surrounding Area.	Not reported	
Property Management:	Not reported	
More Than Two Substances I	volved?: N	
Resp Agncy Personel # Of De	contaminated: 0	
Responding Agency Personel	# Of Injuries: 0	
Responding Agency Personel	# Of Fatalities: 0	

0 0

0

Not reported

Not reported Not reported

Not reported

Not reported

Not reported

07-MAR-90 916 449-5266

Not reported

Not reported 88-92

Not reported

Not reported Not reported

Not reported Not reported

29-MAY-90

Not reported

Not reported

Not reported

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Not reported

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Not reported

Not reported

Not reported

07-MAR-90

STEVE AYALA CAPTAIN T-20-A

Database(s)

EDR ID Number EPA ID Number

BIGGERS INDUSTRIAL GARLIN (Continued)

Others Number Of Decontaminated: Others Number Of Injuries: Others Number Of Fatalities: Vehicle Make/year: Vehicle License Number: Vehicle State: Vehicle Id Number: CA DOT PUC/ICC Number: Company Name: Reporting Officer Name/ID: Report Date: Facility Telephone: Waterway Involved: Waterway: Spill Site: Cleanup By: Containment: What Happened: Type: Measure: Other: Date/Time: Year: Agency: Incident Date: Admin Agency: Amount: Contained: Site Type: E Date: Substance: Unknown: Substance #2: Substance #3: Evacuations: Number of Injuries: Number of Fatalities #1 Pipeline: #2 Pipeline: #3 Pipeline: #1 Vessel >= 300 Tons: #2 Vessel >= 300 Tons: #3 Vessel >= 300 Tons: Evacs: Injuries: Fatals: Comments: Description:

HIST CORTESE: edr_fname: edr_fadd1: City,State,Zip: Region: Facility County Code: Reg By: Reg Id:

BIGGERS INDUSTRIAL GARLIN 551 SEQUOIA PACIFIC SACRAMENTO, CA 95814 CORTESE 34 CALSI 34340018

Map ID Direction		MAP FINDINGS		
Distance Elevation	Site		Database(s)	EDR ID Number EPA ID Number
16 South 1/2-1 0.953 mi. 5031 ft.	ARCO SERVICE STATION 222 JIBBOOM STREET SACRAMENTO, CA 9232	I NO. 6168 4	Notify 65	S100179023 N/A
Relative: Higher Actual: 23 ft.	NOTIFY 65: Name: Address: City,State,Zip: Date Reported: Staff Initials: Board File Number: Facility Type: Discharge Date: Issue Date: Incident Description: Global ID: Status:	ARCO SERVICE STATION NO. 6168 222 JIBBOOM STREET SACRAMENTO, CA 92324 Not reported Not reported Not reported Not reported Not reported Not reported Not reported Not reported Not reported		
17 SSE 1/2-1 0.980 mi. 5175 ft.	CALVADA SALES COMP/ 444 RICHARDS BLVD SACRAMENTO, CA 9581	LUST Sacramento Co. CS CERS HAZ WASTE SWEEPS UST CA FID UST	S101590615 N/A	
Relative: Higher Actual: 23 ft.	LUST REG 5: Name: CA Address: 444 City: SA Region: 5 Status: Cas Case Number: 341 Case Type: Ott Substance: HY Staff Initials: VJF Lead Agency: Loo Program: LUS MTBE Code: N/A	LVADA FOOD SALES RICHARDS BLVD CRAMENTO se Closed 185 er ground water affected DROCARBONS seal	Cortese Sacramento Co. ML Notify 65 CERS	
	LUST: Name: Address: City,State,Zip: Lead Agency: Case Type: Geo Track: Global Id: Latitude: Longitude: Status: Status Date: Case Worker: RB Case Number: Local Agency:	CALVADA FOOD SALES 444 RICHARDS BLVD SACRAMENTO, CA 95814 SACRAMENTO COUNTY LOP LUST Cleanup Site http://geotracker.waterboards.ca.gov/profile_ T0606701010 38.596452 -121.496161 Completed - Case Closed 12/19/2007 DVA 341185 SACRAMENTO COUNTY LOP	_report.asp?global_id=⊺	F0606701010

F

EDR ID Number Database(s) EPA ID Number

CALVADA SALES COMPANY (Continued)

	File Location: Local Case Number: Potential Media Affect: Potential Contaminants of Concer Site History:	Local Agency E577 Other Groundwater (uses other than drinking water) n: Other Solvent or Non-Petroleum Hydrocarbon Not reported
	107	
LU		70000704040
	Global Id:	10606701010
	Contact Type:	Local Agency Caseworker
	Contact Name:	DAVID VON ASPERN
	Organization Name:	SACRAMENTO COUNTY LOP
	Address:	10590 ARMSTRONG AVENUE, SUITE A
	City:	MATHER
	Email:	vonaspernd@saccounty.net
	Phone Number:	Not reported
	A A A A	
	Global Id:	10606701010
	Contact Type:	Regional Board Caseworker
	Contact Name:	VERA FISCHER
	Organization Name:	CENTRAL VALLEY RWQCB (REGION 5S)
	Address:	11020 SUN CENTER DRIVE #200
	City:	RANCHO CORDOVA
	Email:	vera.fischer@waterboards.ca.gov
	Phone Number:	Not reported
LU	IST:	
	Global Id:	T0606701010
	Action Type:	ENFORCEMENT
	Date:	10/29/2004
	Action:	File review
	Global Id:	T0606701010
	Action Type:	Other
	Date:	05/11/1998
	Action:	Leak Reported
	Global Id:	T0606701010
	Action Type:	ENFORCEMENT
	Date:	03/05/1998
	Action:	Notification - Proposition 65
	Global Id:	T0606701010
	Action Type:	ENFORCEMENT
	Date:	05/17/2004
	Action:	File review
	Global Id:	T0606701010
	Action Type:	ENFORCEMENT
	Date:	12/19/2007
	Action:	Closure/No Further Action Letter
	Clobal Idi	T0606704040
	Action Type:	
	Date.	
		LEAN DISCUVELY
	Global Id:	T0606701010
	Giobariu.	

REMEDIATION 07/30/2004

T0606701010

T0606701010

Leak Stopped

T0606701010

T0606701010

T0606701010

T0606701010

01/13/1998

07/12/2001

09/27/2006

12/19/2007

Open - Case Begin Date

Open - Site Assessment

Open - Verification Monitoring

Completed - Case Closed

Other 07/30/2004

03/05/1998

ENFORCEMENT

Notice of Responsibility

Monitored Natural Attenuation

Database(s)

EDR ID Number **EPA ID Number**

CALVADA SALES COMPANY (Continued)

Action Type: Date: Action:

Global Id: Action Type: Date: Action:

Global Id: Action Type: Date: Action:

LUST: Global Id:

Status: Status Date:

Global Id: Status: Status Date:

Global Id: Status: Status Date:

Global Id: Status: Status Date:

Sacramento Co. CS

CALVADA SALES Name: Address: 444 RICHARDS BLVD City,State,Zip: SACRAMENTO, CA State Site Number C230 Lead Staff: Lead Agency: ΗM Remedial Action Taken: NO Substance: Date Reported: Facility Id: Case Type: Case Closed: Υ Date Closed: Case Type: Substance: Automotive(motor gasoline and additives)

VonAspern, D. Automotive(motor gasoline and additives) 01/09/1998 RO0001005 Undefined 03/05/1998 **Undetermined affected**

CERS HAZ WASTE:

Name: Address: City,State,Zip: Site ID: CERS ID: **CERS** Description:

CALVADA SALES CO 444 RICHARDS BLVD SACRAMENTO, CA 95811 102549 10220527 Hazardous Waste Generator

S101590615

TC6302266.2s Page 37 Appendix D

Database(s)

EDR ID Number EPA ID Number

CALVADA SALES COMPANY (Continued)

Contact Phone:

DUNs Number:

NPDES Number:

Not reported

Not reported

Not reported

SWEEPS UST: CALVADA SALES COMPANY Name: 444 RICHARDS BLVD Address: City: SACRAMENTO Status: Active Comp Number: 26 Number: 2 Board Of Equalization: 44-018592 Referral Date: 08-19-92 01-06-93 Action Date: Created Date: 10-14-88 Owner Tank Id: 2 SWRCB Tank Id: 34-000-000026-000002 Tank Status: А Capacity: 5000 Active Date: 10-14-88 Tank Use: M.V. FUEL STG: Р Content: DIESEL Number Of Tanks: 1 CALVADA SALES COMPANY Name: Address: 444 RICHARDS BLVD SACRAMENTO City: Status: Not reported Comp Number: 26 Number: Not reported Board Of Equalization: 44-018592 Referral Date: Not reported Not reported Action Date: Created Date: Not reported Owner Tank Id: Not reported 34-000-000026-000001 SWRCB Tank Id: Not reported Tank Status: 2000 Capacity: Active Date: Not reported Tank Use: M.V. FUEL PRODUCT STG: REG UNLEADED Content: Number Of Tanks: 1 CA FID UST: 34002937 Facility ID: Regulated By: UTNKA Regulated ID: Not reported Cortese Code: Not reported SIC Code: Not reported Facility Phone: 9164416290 Mail To: Not reported Mailing Address: 444 RICHARDS BLVD Mailing Address 2: Not reported SACRAMENTO 95814 Mailing City, St, Zip: Contact: Not reported

Database(s)

EDR ID Number EPA ID Number

CALVADA SALES COMPANY (Continued)

EPA ID:	Not reported
Comments:	Not reported
Status:	Active

CORTESE:

CALVADA FOOD SALES Name: 444 RICHARDS BLVD Address: SACRAMENTO, CA 95814 City,State,Zip: Region: CORTESE Envirostor Id: Not reported T0606701010 Global ID: LUST CLEANUP SITE Site/Facility Type: Cleanup Status: COMPLETED - CASE CLOSED Status Date: Not reported Site Code: Not reported Not reported Latitude: 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 Not reported Effective Date: Not reported Region 2: WID Id: Not reported Not reported Solid Waste Id No: Waste Management Uit Name: Not reported File Name: Active Open Sacramento Co. ML: Name: CALVADA SALES CO 444 RICHARDS BLVD Address: SACRAMENTO, CA 95811 City,State,Zip: Facility Id: Not reported Facility Status: Not reported FD: Not reported Billing Codes BP: A Billing Codes UST: Not reported WG Bill Code: Α Target Property Bill Cod: Not reported Food Bill Code: Not reported CUPA Permit Date: Not reported Not reported HAZMAT Permit Date: Not reported HAZMAT Inspection Date: Hazmat Date BP Received: Not reported UST Permit Dt: Not reported UST Inspection Date: Not reported UST Tank Test Date: Not reported Not reported Number of Tanks: UST Tank Test Date: Not reported SIC Code: Not reported Tier Permitting: Not reported AST Bill Code: Not reported CALARP Bill Code:

Database(s)

EDR ID Number EPA ID Number

S101590615

CALVADA SALES COMPANY (Continued) NOTIFY 65: CALVADA FOOD SALES Name: Address: 444 RICHARDS BLVD City,State,Zip: SACRAMENTO, CA 95814 Date Reported: Not reported Not reported Staff Initials: Board File Number: Not reported Facility Type: Not reported Discharge Date: Not reported Issue Date: 03/05/1998 Incident Description: Not reported Not reported Global ID: Status: Not reported CALVADA FOOD SALES Name: 444 RICHARDS BLVD Address: City,State,Zip: SACRAMENTO, CA 95814 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 Not reported Global ID: Status: Not reported CERS: CALVADA SALES CO Name: Address: 444 RICHARDS BLVD City,State,Zip: SACRAMENTO, CA 95811 Site ID: 102549 CERS ID: 10220527 CERS Description: **Chemical Storage Facilities** Violations: Site ID: 102549 Site Name: CALVADA SALES CO 7/19/2018 Violation Date: 40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter Citation: 1, Section(s) 265.31 Violation Description: Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment. Violation Notes: Returned to compliance on 07/27/2018. OBSERVATION: Oil spilled from the compressor was observed on the floor of the compressor room of the freezer building. Also, oily soil was observed on the ground where the condenser is cleaned out at the cooler building. CORRECTIVE ACTION: Submit photos/documentation to this department demonstrating the spill has been properly removed and managed.

Sacramento County Env Management Department HW

CERS

Violation Division:

Violation Program:

Violation Source:

Database(s)

EDR ID Number EPA ID Number

CALVADA SALES COMPANY (Continued)

Affiliation Zip:

S101590615

Evaluation: Eval General Type: **Compliance Evaluation Inspection** 07-19-2018 Eval Date: Violations Found: No Eval Type: Routine done by local agency **Eval Notes:** No hazardous materials violations observed at time of inspection. Eval Division: Sacramento County Env Management Department Eval Program: HMRRP Eval Source: CERS Eval General Type: **Compliance Evaluation Inspection** Eval Date: 07-19-2018 Violations Found: Yes Eval Type: Routine done by local agency Eval Notes: Email return to compliance documentation to: suttone@saccounty.net Sacramento County Env Management Department Eval Division: Eval Program: HW Eval Source: CERS Eval General Type: **Compliance Evaluation Inspection** 06-10-2015 Eval Date: Violations Found: No Eval Type: Routine done by local agency No hazardous material violations observed at time of inspection. **Eval Notes:** Sacramento County Env Management Department Eval Division: Eval Program: HMRRP Eval Source: CERS Eval General Type: Compliance Evaluation Inspection 06-10-2015 Eval Date: Violations Found: Eval Type: Routine done by local agency **Eval Notes:** No hazardous waste violations observed at time of inspection. Eval Division: Sacramento County Env Management Department нŵ Eval Program: CERS Eval Source: Coordinates: Site ID: 102549 CALVADA SALES CO Facility Name: Env Int Type Code: HWG Program ID: 10220527 Coord Name: Not reported Ref Point Type Desc: Center of a facility or station. Latitude: 38.596540 Longitude: -121.496170 Affiliation: Affiliation Type Desc: CUPA District Entity Name: Sacramento County Environmental Management Departm Entity Title: Not reported Affiliation Address: 10590 Armstrong Avenue, Suite A Affiliation City: Sacramento Affiliation State: CA Affiliation Country: Not reported

95655

Database(s)

EDR ID Number EPA ID Number

CALVADA SALES COMPANY (Continued)

Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: (916) 875-8550

Environmental Contact Ramos Oil Company Not reported P.O. Box 401 West Sacramento CA Not reported 95691 Not reported

Facility Mailing Address Mailing Address Not reported 450 RICHARDS BLVD SACRAMENTO CA Not reported 95811 Not reported

Operator Thomas B. Mackey Not reported Not reported Not reported Not reported Not reported (916) 441-6290

Document Preparer Joe Waterworth Not reported Not reported Not reported Not reported Not reported Not reported Not reported

Parent Corporation CALVADA SALES CO Not reported Not reported Not reported Not reported Not reported Not reported Not reported

Identification Signer Richard Orr Operations Manager Not reported Not reported

S101590615

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D18

SE

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

S101590615

CALVADA SALES COMPANY	(Continued)	S101590615
Affiliation State:	Not reported	
Affiliation Country:	Not reported	
Affiliation Zip:	Not reported	
Affiliation Phone:	Not reported	
Affiliation Type Desc:	Legal Owner	
Entity Name:	CALVADA	
Entity Title:	Not reported	
Affiliation Address:	450 RICHARDS BLVD	
Affiliation City:	SACRAMENTO	
Affiliation State:		
Affiliation Country:	United States	
	95811	
Affiliation Phone:	(916) 441-6290	
Name:	CALVADA FOOD SALES	
Address	444 RICHARDS BI VD	
City.State.Zip:	SACRAMENTO, CA 95814	
Site ID:	205064	
CERS ID:	T0606701010	
CERS Description:	Leaking Underground Storage Tank Cleanup Site	
Affiliation:		
Affiliation Type Desc:	Local Agency Caseworker	
Entity Name:	DAVID VON ASPERN - SACRAMENTO COUNTY LOP	
Entity Title:	Not reported	
Affiliation Address:	10590 ARMSTRONG AVENUE, SUITE A	
Affiliation City:	MATHER	
Affiliation State:	CA	
Affiliation Country:	Not reported	
Affiliation Zip:	Not reported	
Affiliation Phone:	Not reported	
Affiliation Type Desc:	Regional Board Caseworker	
Entity Name:	VERA FISCHER - CENTRAL VALLEY RWQCB (REGION 5S)	
Entity Title:	Not reported	
Affiliation Address:	11020 SUN CENTER DRIVE #200	
Affiliation City:	RANCHO CORDOVA	
Affiliation State:	CA	
Affiliation Country:	Not reported	
Affiliation Zip:	Not reported	
Affiliation Phone:	Not reported	
SACRAMENTO SIGNAL DEPO		1024903780
		N/A

1/2-1 0.996 mi.	SACRAMENTO, CA		
5257 ft.	Site 1 of 2 in cluster D		
Relative: Higher Actual: 27 ft.	FUDS: EPA Region: Installation ID: Congressional District Number: Facility Name: FUDS Number: City:	09 CA99799F584400 06 SACRAMENTO SIGNAL DEPOT J09CA0924 SACRAMENTO	

Database(s)

EDR ID Number EPA ID Number

SACRAMENTO SIGNAL DEPOT (Continued) 1024903780 State: CA SACRAMENTO County: Object ID: 6932 USACE District: Sacramento District (SPK) Status: Properties without projects Current Owner: Other EMS Map Link: https://fudsportal.usace.army.mil/ems/ems/inventory/map/map?id=57950 Eligibility: Eligible Has Projects: No NPL Status: Not Listed 38.60083333 Latitude: -121.48916667 Longitude: D19 SACRAMENTO SIGNAL DEPOT (J09CA0924) ENVIROSTOR S109149607 SE **NORTH 7TH STREET** N/A SACRAMENTO, CA 95814 1/2-1 0.998 mi. Site 2 of 2 in cluster D 5272 ft. ENVIROSTOR: Relative: Higher SACRAMENTO SIGNAL DEPOT (J09CA0924) Name: Address: NORTH 7TH STREET Actual: SACRAMENTO, CA 95814 City,State,Zip: 27 ft. 80000605 Facility ID: Status: No Further Action 04/28/2010 Status Date: Site Code: Not reported Site Type: Military Evaluation Site Type Detailed: FUDS 47 Acres: NPL: NO SMBRP Regulatory Agencies: SMBRP Lead Agency: Program Manager: Carrie Tatoian-Cain Charles Ridenour Supervisor: Cleanup Sacramento **Division Branch:** Assembly: 07 Senate: 06 Special Program: Not reported Restricted Use: NO Site Mgmt Req: NONE SPECIFIED Funding: DERA Latitude: 38.60083 Longitude: -121.4891 APN: NONE SPECIFIED Past Use: VEHICLE MAINTENANCE Potential COC: **TPH-diesel TPH-gas** 30024-NO 30025-NO Confirmed COC: Potential Description: UE Alias Name: Sacramento Army Depot Alias Type: Alternate Name Alias Name: CA99799F584400 Alias Type: Federal Facility ID Alias Name: J09CA0924 Alias Type: INPR Alias Name: 80000605

Envirostor ID Number

Alias Type:
MAP FINDINGS

Database(s) EPA II

EDR ID Number EPA ID Number

SACRAMENTO SIGNAL DEPOT (J09CA0924) (Continued)

S109149607

Completed Info: Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	PROJECT WIDE Not reported No Department of Defense Action Indicated (NDAI) 06/27/2008 DTSC did not concur on the NDAI. DTSC is requesting more information about the possibility of Underground Storage Tanks.
Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	PROJECT WIDE Not reported No Department of Defense Action Indicated (NDAI) 04/08/2010 The ACOE submitted responses to DTSC's comments on the original NDAI. The responses resolved our concerns regarding this FUD site. If further information arises regarding the environmental condition of this FUD site DTSC will reopen an investigation.
Future Area Name: Future Sub Area Name: Future Document Type: Future Due Date: Schedule Area Name: Schedule Document Type: Schedule Due Date: Schedule Revised Date:	Not reported Not reported Not reported Not reported Not reported Not reported Not reported

Count: 2 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SACRAMENTO	S106782284	CITY OF SACRAMENTO	I-5 AT SAN JUAN AVE		Sacramento Co. CS
SACRAMENTO	S106230370	SACRAMENTO-YOLO MOSQUITO & VECTOR	EL CAMINO AVE & BUISNESS HIGHW		CPS-SLIC



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: 10/28/2020 Source: EPA Telephone: N/A Date Data Arrived at EDR: 11/05/2020 Date Made Active in Reports: 11/25/2020 Last EDR Contact: 12/02/2020 Next Scheduled EDR Contact: 01/11/2021 Number of Days to Update: 20 Data Release Frequency: Quarterly NPL Site Boundaries Sources: EPA's Environmental Photographic Interpretation Center (EPIC) Telephone: 202-564-7333 **EPA Region 1** EPA Region 6 Telephone 617-918-1143 Telephone: 214-655-6659 EPA Region 7 EPA Region 3 Telephone: 913-551-7247 Telephone 215-814-5418 **EPA Region 4 EPA Region 8** Telephone 404-562-8033 Telephone: 303-312-6774 PA Region 9 **EPA Region 5** elephone: 415-947-4246 Telephone 312-886-6686 **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: 10/28/2020 Date Data Arrived at EDR: 11/05/2020 Date Made Active in Reports: 11/25/2020 Number of Days to Update: 20 Source: EPA Telephone: N/A Last EDR Contact: 12/02/2020 Next Scheduled EDR Contact: 01/11/2021 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: 10/28/2020 Date Data Arrived at EDR: 11/05/2020 Date Made Active in Reports: 11/25/2020 Number of Days to Update: 20 Source: EPA Telephone: N/A Last EDR Contact: 12/02/2020 Next Scheduled EDR Contact: 01/11/2021 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: 04/03/2019 Date Data Arrived at EDR: 04/05/2019 Date Made Active in Reports: 05/14/2019 Number of Days to Update: 39 Source: Environmental Protection Agency Telephone: 703-603-8704 Last EDR Contact: 10/02/2020 Next Scheduled EDR Contact: 01/11/2021 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 is Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/28/2020 Date Data Arrived at EDR: 11/05/2020 Date Made Active in Reports: 11/25/2020 Number of Days to Update: 20 Source: EPA Telephone: 800-424-9346 Last EDR Contact: 12/02/2020 Next Scheduled EDR Contact: 01/25/2021 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: 10/28/2020 Date Data Arrived at EDR: 11/05/2020 Date Made Active in Reports: 11/25/2020 Number of Days to Update: 20 Source: EPA Telephone: 800-424-9346 Last EDR Contact: 12/02/2020 Next Scheduled EDR Contact: 01/25/2021 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: 06/15/2020 Date Data Arrived at EDR: 06/22/2020 Date Made Active in Reports: 09/17/2020 Number of Days to Update: 87 Source: EPA Telephone: 800-424-9346 Last EDR Contact: 09/22/2020 Next Scheduled EDR Contact: 01/04/2021 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: 06/15/2020 Date Data Arrived at EDR: 06/22/2020 Date Made Active in Reports: 09/18/2020 Number of Days to Update: 88 Source: Environmental Protection Agency Telephone: (415) 495-8895 Last EDR Contact: 09/22/2020 Next Scheduled EDR Contact: 01/04/2021 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: 06/15/2020 Date Data Arrived at EDR: 06/22/2020 Date Made Active in Reports: 09/18/2020 Number of Days to Update: 88 Source: Environmental Protection Agency Telephone: (415) 495-8895 Last EDR Contact: 09/22/2020 Next Scheduled EDR Contact: 01/04/2021 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: 06/15/2020 Date Data Arrived at EDR: 06/22/2020 Date Made Active in Reports: 09/18/2020 Number of Days to Update: 88 Source: Environmental Protection Agency Telephone: (415) 495-8895 Last EDR Contact: 09/22/2020 Next Scheduled EDR Contact: 01/04/2021 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: 06/15/2020 Date Data Arrived at EDR: 06/22/2020 Date Made Active in Reports: 09/18/2020 Number of Days to Update: 88 Source: Environmental Protection Agency Telephone: (415) 495-8895 Last EDR Contact: 09/22/2020 Next Scheduled EDR Contact: 01/04/2021 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: 08/06/2020 Date Data Arrived at EDR: 08/21/2020 Date Made Active in Reports: 11/11/2020 Number of Days to Update: 82 Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 11/05/2020 Next Scheduled EDR Contact: 02/22/2021 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: 10/28/2020 Date Data Arrived at EDR: 11/05/2020 Date Made Active in Reports: 11/18/2020 Number of Days to Update: 13 Source: Environmental Protection Agency Telephone: 703-603-0695 Last EDR Contact: 11/05/2020 Next Scheduled EDR Contact: 03/08/2021 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: 10/28/2020 Date Data Arrived at EDR: 11/05/2020 Date Made Active in Reports: 11/18/2020 Number of Days to Update: 13 Source: Environmental Protection Agency Telephone: 703-603-0695 Last EDR Contact: 11/05/2020 Next Scheduled EDR Contact: 03/08/2021 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: 06/15/2020 Date Data Arrived at EDR: 06/22/2020 Date Made Active in Reports: 09/17/2020 Number of Days to Update: 87 Source: National Response Center, United States Coast Guard Telephone: 202-267-2180 Last EDR Contact: 09/22/2020 Next Scheduled EDR Contact: 01/04/2021 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: 07/27/2020 Date Data Arrived at EDR: 07/27/2020 Date Made Active in Reports: 10/08/2020 Number of Days to Update: 73 Source: Department of Toxic Substances Control Telephone: 916-323-3400 Last EDR Contact: 10/26/2020 Next Scheduled EDR Contact: 02/08/2021 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 identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 07/27/2020 Date Data Arrived at EDR: 07/27/2020 Date Made Active in Reports: 10/08/2020 Number of Days to Update: 73 Source: Department of Toxic Substances Control Telephone: 916-323-3400 Last EDR Contact: 10/26/2020 Next Scheduled EDR Contact: 02/08/2021 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 inventory 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: 05/11/2020 Date Data Arrived at EDR: 05/12/2020 Date Made Active in Reports: 07/27/2020 Number of Days to Update: 76 Source: Department of Resources Recycling and Recovery Telephone: 916-341-6320 Last EDR Contact: 11/10/2020 Next Scheduled EDR Contact: 02/22/2021 Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

UST REG 61 · Leaking Underground Storage Tank (Case Listing
For more current information, please refer to the	e 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 8: Leaking Underground Storage Tanks California Regional Water Quality Control Board to the State Water Resources Control Board's L	d Santa Ana Region (8). For more current information, please refer UST 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 4: Underground Storage Tank Leak List Los Angeles, Ventura counties. For more currer Board's LUST database.	nt information, please refer to the State Water Resources Control
Date of Government Version: 09/07/2004 Date Data Arrived at EDR: 09/07/2004 Date Made Active in Reports: 10/12/2004 Number of Days to Update: 35	Source: California Regional Water Quality Control Board Los Angeles Region (4) Telephone: 213-576-6710 Last EDR Contact: 09/06/2011 Next Scheduled EDR Contact: 12/19/2011 Data Release Frequency: No Update Planned
LUST REG 7: Leaking Underground Storage Tank C Leaking Underground Storage Tank locations.	ase Listing 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 1: Active Toxic Site Investigation Del Norte, Humboldt, Lake, Mendocino, Modoc, please refer to the State Water Resources Cont	Siskiyou, Sonoma, Trinity counties. For more current information, rol 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 2: Fuel Leak List Leaking Underground Storage Tank locations. A Clara, Solano, Sonoma counties.	Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa
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 9: Leaking Underground Storage Tank R Orange, Riverside, San Diego counties. For mo Control Board's LUST database.	eport re current information, please refer to the State Water Resources

TC6302266.25 D Page GR-6

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: 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: 09/08/2020 Date Data Arrived at EDR: 09/08/2020 Date Made Active in Reports: 11/30/2020 Number of Days to Update: 83 Source: State Water Resources Control Board Telephone: see region list Last EDR Contact: 12/04/2020 Next Scheduled EDR Contact: 03/22/2021 Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003 Date Data Arrived at EDR: 05/19/2003 Date Made Active in Reports: 06/02/2003 Number of Days to Update: 14 Source: California Regional Water Quality Control Board Central Coast Region (3) Telephone: 805-542-4786 Last EDR Contact: 07/18/2011 Next Scheduled EDR Contact: 10/31/2011 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 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

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/14/2020	Source: EPA Region 10
Date Data Arrived at EDR: 05/20/2020	Telephone: 206-553-2857
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 10/23/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 02/01/2021
	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: 04/29/2020 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 1 Telephone: 617-918-1313 Last EDR Contact: 10/23/2020 Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage T LUSTs on Indian land in Florida, Mississippi a	anks on Indian Land nd North Carolina.	
Date of Government Version: 04/14/2020 Date Data Arrived at EDR: 05/26/2020 Date Made Active in Reports: 08/12/2020 Number of Days to Update: 78	Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 10/23/2020 Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: Varies	
INDIAN LUST R5: Leaking Underground Storage T Leaking underground storage tanks located or	anks on Indian Land n Indian Land in Michigan, Minnesota and Wisconsin.	
Date of Government Version: 04/14/2020 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 5 Telephone: 312-886-7439 Last EDR Contact: 10/23/2020 Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: Varies	
INDIAN LUST R9: Leaking Underground Storage T LUSTs on Indian land in Arizona, California, N	anks on Indian Land lew Mexico and Nevada	
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: Environmental Protection Agency Telephone: 415-972-3372 Last EDR Contact: 10/23/2020 Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: Varies	
INDIAN LUST R8: Leaking Underground Storage T LUSTs on Indian land in Colorado, Montana, I	anks on Indian Land North Dakota, South Dakota, Utah and Wyoming.	
Date of Government Version: 04/14/2020 Date Data Arrived at EDR: 05/20/2020 Date Made Active in Reports: 08/12/2020 Number of Days to Update: 84 INDIAN LUST R7: Leaking Underground Storage T LUSTs on Indian land in Iowa, Kansas, and N	Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 10/23/2020 Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: Varies Tanks on Indian Land ebraska	
Date of Government Version: 04/15/2020 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 7 Telephone: 913-551-7003 Last EDR Contact: 10/23/2020 Next Scheduled EDR Contact: 02/01/2021 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: 10/23/2020 Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: Varies	
CPS-SLIC: Statewide SLIC Cases (GEOTRACKER Cleanup Program Sites (CPS; also known as and Cleanups [SLIC] sites) included in GeoTra sites that impact, or have the potential to impar	R) Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, acker. GeoTracker is the Water Boards data management system for act, water quality in California, with emphasis on groundwater.	
Date of Government Version: 09/08/2020 Date Data Arrived at EDR: 09/08/2020 Date Made Active in Reports: 11/30/2020 Number of Days to Update: 83	Source: State Water Resources Control Board Telephone: 866-480-1028 Last EDR Contact: 12/04/2020 Next Scheduled EDR Contact: 03/22/2021	

Next Scheduled EDR Contact: 03/22/2021 Data Release Frequency: Varies

IC 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 The SLIC (Spills, Leaks, Investigations and Cle from spills, leaks, and similar discharges.	Cost Recovery Listing eanup) program is designed to protect and restore water quality	
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 The SLIC (Spills, Leaks, Investigations and Cle from spills, leaks, and similar discharges.	Cost Recovery Listing eanup) program is designed to protect and restore water quality	
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 The SLIC (Spills, Leaks, Investigations and Cle from spills, leaks, and similar discharges.	Cost Recovery Listing eanup) program is designed to protect and restore water quality	
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 The SLIC (Spills, Leaks, Investigations and Cle from spills, leaks, and similar discharges.	Cost Recovery Listing eanup) program is designed to protect and restore water quality	
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 & Cleanu The SLIC (Spills, Leaks, Investigations and Cle from spills, leaks, and similar discharges.	p Cost Recovery Listing eanup) program is designed to protect and restore water quality	
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	



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: 09/03/2020 Date Data Arrived at EDR: 09/08/2020 Date Made Active in Reports: 12/03/2020 Number of Days to Update: 86	Source: State Water Resources Control Board Telephone: 916-327-7844 Last EDR Contact: 12/08/2020 Next Scheduled EDR Contact: 03/22/2021 Data Release Frequency: Varies
UST	: Active UST Facilities Active UST facilities gathered from the local reg	gulatory agencies
	Date of Government Version: 09/08/2020 Date Data Arrived at EDR: 09/08/2020 Date Made Active in Reports: 11/30/2020 Number of Days to Update: 83	Source: SWRCB Telephone: 916-341-5851 Last EDR Contact: 12/04/2020 Next Scheduled EDR Contact: 03/22/2021 Data Release Frequency: Semi-Annually
MILI	TARY UST SITES: Military UST Sites (GEOTR/ Military ust sites	ACKER)
	Date of Government Version: 09/08/2020 Date Data Arrived at EDR: 09/08/2020 Date Made Active in Reports: 11/30/2020 Number of Days to Update: 83	Source: State Water Resources Control Board Telephone: 866-480-1028 Last EDR Contact: 12/04/2020 Next Scheduled EDR Contact: 03/22/2021 Data Release Frequency: Varies
AST	: Aboveground Petroleum Storage Tank Facilitie A listing of aboveground storage tank petroleur	es n storage tank locations.
	Date of Government Version: 07/06/2016 Date Data Arrived at EDR: 07/12/2016 Date Made Active in Reports: 09/19/2016 Number of Days to Update: 69	Source: California Environmental Protection Agency Telephone: 916-327-5092 Last EDR Contact: 12/09/2020 Next Scheduled EDR Contact: 03/29/2021 Data Release Frequency: Varies
INDI	AN UST R6: Underground Storage Tanks on In The Indian Underground Storage Tank (UST) of land in EPA Region 6 (Louisiana, Arkansas, Ol	dian Land latabase provides information about underground storage tanks on Indian slahoma, 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: 10/23/2020 Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: Varies
INDI	AN UST R7: Underground Storage Tanks on In The Indian Underground Storage Tank (UST) of land in EPA Region 7 (Iowa, Kansas, Missouri,	dian Land latabase provides information about underground storage tanks on Indian Nebraska, and 9 Tribal Nations).
	Date of Government Version: 04/03/2020 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 7 Telephone: 913-551-7003 Last EDR Contact: 10/23/2020 Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: Varies
INDI	AN UST R9: Underground Storage Tanks on In The Indian Underground Storage Tank (UST) of land in EPA Region 9 (Arizona, California, Haw	dian Land latabase provides information about underground storage tanks on Indian aii, Nevada, the Pacific Islands, and Tribal Nations).
	Date of Government Version: 04/08/2020 Date Data Arrived at EDR: 05/20/2020 Date Made Active in Reports: 08/12/2020	Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 10/23/2020

Next Scheduled EDR Contact: 02/01/2021

Data Release Frequency: Varies

Number of Days to Update: 84

INDI	AN UST R10: Underground Storage Tanks on I The Indian Underground Storage Tank (UST) c land in EPA Region 10 (Alaska, Idaho, Oregon	ndian Land latabase provides information about underground storage tanks on Indian , Washington, and Tribal Nations).
	Date of Government Version: 04/14/2020 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 10 Telephone: 206-553-2857 Last EDR Contact: 10/23/2020 Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: Varies
INDI	AN UST R1: Underground Storage Tanks on In The Indian Underground Storage Tank (UST) of land in EPA Region 1 (Connecticut, Maine, Mar Nations).	dian Land latabase provides information about underground storage tanks on Indian ssachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal
	Date of Government Version: 04/29/2020 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 1 Telephone: 617-918-1313 Last EDR Contact: 10/23/2020 Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: Varies
INDI	AN UST R8: Underground Storage Tanks on In The Indian Underground Storage Tank (UST) of land in EPA Region 8 (Colorado, Montana, Nor	dian Land database provides information about underground storage tanks on Indian th Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).
	Date of Government Version: 04/14/2020 Date Data Arrived at EDR: 05/20/2020 Date Made Active in Reports: 08/13/2020 Number of Days to Update: 85	Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 10/23/2020 Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: Varies
INDI	AN UST R4: Underground Storage Tanks on In The Indian Underground Storage Tank (UST) of land in EPA Region 4 (Alabama, Florida, Georg and Tribal Nations)	dian Land database provides information about underground storage tanks on Indian gia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee
	Date of Government Version: 04/14/2020 Date Data Arrived at EDR: 05/26/2020 Date Made Active in Reports: 08/12/2020 Number of Days to Update: 78	Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 10/23/2020 Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: Varies
INDI	AN UST R5: Underground Storage Tanks on In The Indian Underground Storage Tank (UST) of land in EPA Region 5 (Michigan, Minnesota an	dian Land latabase provides information about underground storage tanks on Indian d Wisconsin and Tribal Nations).
	Date of Government Version: 04/14/2020 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 5 Telephone: 312-886-6136 Last EDR Contact: 10/23/2020 Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: Varies

State and tribal voluntary cleanup sites 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: 07/27/2020 Date Data Arrived at EDR: 07/27/2020 Date Made Active in Reports: 10/08/2020 Number of Days to Update: 73 Source: Department of Toxic Substances Control Telephone: 916-323-3400 Last EDR Contact: 10/26/2020 Next Scheduled EDR Contact: 02/08/2021 Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015 Date Data Arrived at EDR: 09/29/2015 Date Made Active in Reports: 02/18/2016 Number of Days to Update: 142 Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 09/16/2020 Next Scheduled EDR Contact: 01/04/2021 Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 27 Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009 Next Scheduled EDR Contact: 07/20/2009 Data Release Frequency: Varies

Source: State Water Resources Control Board

Next Scheduled EDR Contact: 01/04/2021

Data Release Frequency: Quarterly

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Telephone: 916-323-7905

Last EDR Contact: 09/22/2020

Date of Government Version: 09/21/2020 Date Data Arrived at EDR: 09/22/2020 Date Made Active in Reports: 12/11/2020 Number of Days to Update: 80

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 provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/14/2020 Date Data Arrived at EDR: 09/15/2020 Date Made Active in Reports: 12/10/2020 Number of Days to Update: 86 Source: Environmental Protection Agency Telephone: 202-566-2777 Last EDR Contact: 12/11/2020 Next Scheduled EDR Contact: 03/29/2021 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: 10/20/2020 Next Scheduled EDR Contact: 02/08/2021 Data Release Frequency: No Update Planned
SWR	CY: Recycler Database A listing of recycling facilities in California.	
	Date of Government Version: 09/08/2020 Date Data Arrived at EDR: 09/08/2020 Date Made Active in Reports: 11/30/2020 Number of Days to Update: 83	Source: Department of Conservation Telephone: 916-323-3836 Last EDR Contact: 12/08/2020 Next Scheduled EDR Contact: 03/22/2021 Data Release Frequency: Quarterly
HAU	LERS: Registered Waste Tire Haulers Listing A listing of registered waste tire haulers.	
	Date of Government Version: 05/28/2020 Date Data Arrived at EDR: 05/29/2020 Date Made Active in Reports: 08/12/2020 Number of Days to Update: 75	Source: Integrated Waste Management Board Telephone: 916-341-6422 Last EDR Contact: 11/05/2020 Next Scheduled EDR Contact: 02/22/2021 Data Release Frequency: Varies
INDI	AN ODI: Report on the Status of Open Dumps of Location of open dumps on Indian land.	on Indian Lands
	Date of Government Version: 12/31/1998 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008 Number of Days to Update: 52	Source: Environmental Protection Agency Telephone: 703-308-8245 Last EDR Contact: 10/20/2020 Next Scheduled EDR Contact: 02/08/2021 Data Release Frequency: Varies
DEB	RIS REGION 9: Torres Martinez Reservation II A listing of illegal dump sites location on the To County and northern Imperial County, California	egal Dump Site Locations rres Martinez Indian Reservation located in eastern Riverside a.
	Date of Government Version: 01/12/2009 Date Data Arrived at EDR: 05/07/2009 Date Made Active in Reports: 09/21/2009 Number of Days to Update: 137	Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 10/13/2020 Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: No Update Planned
ODI:	Open Dump Inventory An open dump is defined as a disposal facility t Subtitle D Criteria.	hat does not comply with one or more of the Part 257 or Part 258
	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 La	and 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: 10/30/2020 Next Scheduled EDR Contact: 02/08/2021

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: 03/18/2020 Date Data Arrived at EDR: 03/19/2020 Date Made Active in Reports: 06/09/2020 Number of Days to Update: 82 Source: Drug Enforcement Administration Telephone: 202-307-1000 Last EDR Contact: 11/16/2020 Next Scheduled EDR Contact: 03/08/2021 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 fisted in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 07/27/2020 Date Data Arrived at EDR: 07/27/2020 Date Made Active in Reports: 10/08/2020 Number of Days to Update: 73 Source: Department of Toxic Substances Control Telephone: 916-323-3400 Last EDR Contact: 10/26/2020 Next Scheduled EDR Contact: 02/08/2021 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: 06/30/2019 Date Data Arrived at EDR: 05/28/2020 Date Made Active in Reports: 08/12/2020 Number of Days to Update: 76 Source: Department of Toxic Substances Control Telephone: 916-255-6504 Last EDR Contact: 11/11/2020 Next Scheduled EDR Contact: 01/18/2021 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: 07/20/2020 Date Data Arrived at EDR: 07/21/2020 Date Made Active in Reports: 10/07/2020 Number of Days to Update: 78 Source: CalEPA Telephone: 916-323-2514 Last EDR Contact: 10/19/2020 Next Scheduled EDR Contact: 02/01/2021 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: 03/18/2020 Date Data Arrived at EDR: 03/19/2020 Date Made Active in Reports: 06/09/2020 Number of Days to Update: 82 Source: Drug Enforcement Administration Telephone: 202-307-1000 Last EDR Contact: 11/16/2020 Next Scheduled EDR Contact: 03/08/2021 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: 09/08/2020 Date Data Arrived at EDR: 09/08/2020 Date Made Active in Reports: 12/01/2020 Number of Days to Update: 84 Source: State Water Resources Control Board Telephone: 866-480-1028 Last EDR Contact: 12/08/2020 Next Scheduled EDR Contact: 03/22/2021 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

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 05/20/2020 Date Data Arrived at EDR: 05/20/2020 Date Made Active in Reports: 08/06/2020 Number of Days to Update: 78 Source: Department of Public Health Telephone: 707-463-4466 Last EDR Contact: 11/16/2020 Next Scheduled EDR Contact: 03/08/2021 Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990 Date Data Arrived at EDR: 01/25/1991 Date Made Active in Reports: 02/12/1991 Number of Days to Update: 18 Source: State Water Resources Control Board Telephone: 916-341-5851 Last EDR Contact: 07/26/2001 Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing Aboveground storage tank sites

Date of Government Version: 08/03/2020 Date Data Arrived at EDR: 08/05/2020 Date Made Active in Reports: 10/22/2020 Number of Days to Update: 78 Source: San Francisco County Department of Public Health Telephone: 415-252-3896 Last EDR Contact: 10/28/2020 Next Scheduled EDR Contact: 02/15/2021 Data Release Frequency: Varies

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: 07/20/2020 Date Data Arrived at EDR: 07/21/2020 Date Made Active in Reports: 10/07/2020 Number of Days to Update: 78 Source: California Environmental Protection Agency Telephone: 916-323-2514 Last EDR Contact: 10/19/2020 Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994 Date Data Arrived at EDR: 09/05/1995 Date Made Active in Reports: 09/29/1995 Number of Days to Update: 24 Source: California Environmental Protection Agency Telephone: 916-341-5851 Last EDR Contact: 12/28/1998 Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/26/2020 Date Data Arrived at EDR: 08/28/2020 Date Made Active in Reports: 11/17/2020 Number of Days to Update: 81 Source: Department of Toxic Substances Control Telephone: 916-323-3400 Last EDR Contact: 11/23/2020 Next Scheduled EDR Contact: 03/15/2021 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: 10/28/2020 Date Data Arrived at EDR: 11/05/2020 Date Made Active in Reports: 11/25/2020 Number of Days to Update: 20 Source: Environmental Protection Agency Telephone: 202-564-6023 Last EDR Contact: 12/02/2020 Next Scheduled EDR Contact: 01/11/2021 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: 08/31/2020 Date Data Arrived at EDR: 08/31/2020 Date Made Active in Reports: 11/20/2020 Number of Days to Update: 81 Source: DTSC and SWRCB Telephone: 916-323-3400 Last EDR Contact: 12/01/2020 Next Scheduled EDR Contact: 03/15/2021 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: 09/20/2020 Date Data Arrived at EDR: 09/22/2020 Date Made Active in Reports: 12/14/2020 Number of Days to Update: 83 Source: U.S. Department of Transportation Telephone: 202-366-4555 Last EDR Contact: 09/22/2020 Next Scheduled EDR Contact: 01/04/2021 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: 06/30/2020 Date Data Arrived at EDR: 07/21/2020 Date Made Active in Reports: 10/07/2020 Number of Days to Update: 78 Source: Office of Emergency Services Telephone: 916-845-8400 Last EDR Contact: 10/19/2020 Next Scheduled EDR Contact: 02/01/2021 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: 09/08/2020 Date Data Arrived at EDR: 09/08/2020 Date Made Active in Reports: 11/30/2020 Number of Days to Update: 83

Source: State Water Quality Control Board Telephone: 866-480-1028 Last EDR Contact: 12/04/2020 Next Scheduled EDR Contact: 03/22/2021 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: 09/08/2020 Date Data Arrived at EDR: 09/08/2020 Date Made Active in Reports: 11/30/2020 Number of Days to Update: 83 Source: State Water Resources Control Board Telephone: 866-480-1028 Last EDR Contact: 12/04/2020 Next Scheduled EDR Contact: 03/22/2021 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: 06/15/2020 Date Data Arrived at EDR: 06/22/2020 Date Made Active in Reports: 09/18/2020 Number of Days to Update: 88 Source: Environmental Protection Agency Telephone: (415) 495-8895 Last EDR Contact: 09/22/2020 Next Scheduled EDR Contact: 01/04/2021 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: 08/05/2020 Date Data Arrived at EDR: 08/13/2020 Date Made Active in Reports: 10/21/2020 Number of Days to Update: 69 Source: U.S. Army Corps of Engineers Telephone: 202-528-4285 Last EDR Contact: 11/17/2020 Next Scheduled EDR Contact: 03/01/2021 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: 10/13/2020 Next Scheduled EDR Contact: 01/25/2021 Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 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: 10/08/2020 Next Scheduled EDR Contact: 01/18/2021 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: 11/09/2020 Next Scheduled EDR Contact: 02/22/2021 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: 09/21/2020 Date Data Arrived at EDR: 09/22/2020 Date Made Active in Reports: 12/14/2020 Number of Days to Update: 83 Source: Environmental Protection Agency Telephone: 202-566-1917 Last EDR Contact: 09/22/2020 Next Scheduled EDR Contact: 01/04/2021 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: 11/02/2020 Next Scheduled EDR Contact: 02/15/2021 Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017 Date Data Arrived at EDR: 05/08/2018 Date Made Active in Reports: 07/20/2018 Number of Days to Update: 73 Source: Environmental Protection Agency Telephone: 703-308-4044 Last EDR Contact: 11/06/2020 Next Scheduled EDR Contact: 02/15/2021 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: 09/18/2020 Next Scheduled EDR Contact: 12/28/2020 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: 11/17/2020 Next Scheduled EDR Contact: 03/01/2021 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: 07/20/2020 Date Data Arrived at EDR: 07/21/2020 Date Made Active in Reports: 10/08/2020 Number of Days to Update: 79 Source: EPA Telephone: 202-564-4203 Last EDR Contact: 10/19/2020 Next Scheduled EDR Contact: 02/01/2021 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: 10/28/2020 Date Data Arrived at EDR: 11/05/2020 Date Made Active in Reports: 11/25/2020 Number of Days to Update: 20 Source: EPA Telephone: 703-416-0223 Last EDR Contact: 12/02/2020 Next Scheduled EDR Contact: 03/15/2021 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: 07/24/2020 Date Data Arrived at EDR: 08/03/2020 Date Made Active in Reports: 10/21/2020 Number of Days to Update: 79 Source: Environmental Protection Agency Telephone: 202-564-8600 Last EDR Contact: 10/14/2020 Next Scheduled EDR Contact: 02/01/2021 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: 04/27/2020 Date Data Arrived at EDR: 05/06/2020 Date Made Active in Reports: 06/09/2020 Number of Days to Update: 34	Source: EPA Telephone: 202-564-6023 Last EDR Contact: 12/02/2020 Next Scheduled EDR Contact: 02/15/2021 Data Release Frequency: Quarterly	
PADS: PCB Activity Database System PCB Activity Database. PADS Identifies generation of PCB's who are required to notify the EPA o	rators, transporters, commercial storers and/or brokers and disposers f such activities.	
Date of Government Version: 10/09/2019 Date Data Arrived at EDR: 10/11/2019 Date Made Active in Reports: 12/20/2019 Number of Days to Update: 70	Source: EPA Telephone: 202-566-0500 Last EDR Contact: 10/02/2020 Next Scheduled EDR Contact: 01/18/2021 Data Release Frequency: Annually	
ICIS: Integrated Compliance Information System The Integrated Compliance Information System and compliance program as well as the unique program.	m (ICIS) supports the information needs of the national enforcement e needs of the National Pollutant Discharge Elimination System (NPDES)	
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: 10/01/2020 Next Scheduled EDR Contact: 01/18/2021 Data Release Frequency: Quarterly	
FTTS: FIFRA/ TSCA Tracking System - FIFRA (Fe FTTS tracks administrative cases and pesticic TSCA and EPCRA (Emergency Planning and Agency on a quarterly basis.	deral Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) le enforcement actions and compliance activities related to FIFRA, Community Right-to-Know Act). To maintain currency, EDR contacts the	
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: ERA/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 - FIFR A listing of FIFRA/TSCA Tracking System (FT	A (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) TS) 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 Regulator possess or use radioactive materials and whic EDR contacts the Agency on a quarterly basis	y Commission and contains a list of approximately 8,100 sites which th are subject to NRC licensing requirements. To maintain currency, s.	
Date of Government Version: 08/05/2020 Date Data Arrived at EDR: 08/10/2020 Date Made Active in Reports: 10/08/2020 Number of Days to Update: 59	Source: Nuclear Regulatory Commission Telephone: 301-415-7169 Last EDR Contact: 10/12/2020 Next Scheduled EDR Contact: 01/31/2021 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: 12/31/2018 Date Data Arrived at EDR: 12/04/2019 Date Made Active in Reports: 01/15/2020 Number of Days to Update: 42 Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 12/01/2020 Next Scheduled EDR Contact: 03/15/2021 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: 11/30/2020 Next Scheduled EDR Contact: 03/15/2021 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: 11/06/2021 Next Scheduled EDR Contact: 02/15/2021 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: 09/24/2020 Next Scheduled EDR Contact: 01/11/2021 Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007 Number of Days to Update: 40

Source: Environmental Protection Agency Telephone: 202-564-2501 Last EDR Contact: 12/17/2007 Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

	Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007 Number of Days to Update: 40	Source: Environmental Protection Agency Telephone: 202-564-2501 Last EDR Contact: 12/17/2008 Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned
DOT	OPS: Incident and Accident Data Department of Transporation, Office of Pipeline	e 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: 10/27/2020 Next Scheduled EDR Contact: 02/08/2021 Data Release Frequency: Quarterly
CON	ISENT: Superfund (CERCLA) Consent Decrees Major legal settlements that establish responsit periodically by United States District Courts after	s bility and standards for cleanup at NPL (Superfund) sites. Released er settlement by parties to litigation matters.
	Date of Government Version: 06/30/2020 Date Data Arrived at EDR: 07/15/2020 Date Made Active in Reports: 07/21/2020 Number of Days to Update: 6	Source: Department of Justice, Consent Decree Library Telephone: Varies Last EDR Contact: 10/01/2020 Next Scheduled EDR Contact: 01/18/2021 Data Release Frequency: Varies
BRS	: Biennial Reporting System The Biennial Reporting System is a national sy and management of hazardous waste. BRS ca and Treatment, Storage, and Disposal Facilities	stem administered by the EPA that collects data on the generation ptures detailed data from two groups: Large Quantity Generators (LQG) s.
	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: 09/22/2020 Next Scheduled EDR Contact: 01/04/2021 Data Release Frequency: Biennially
INDI	AN RESERV: Indian Reservations This map layer portrays Indian administered lan than 640 acres.	nds of the United States that have any area equal to or greater
	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: 10/06/2020 Next Scheduled EDR Contact: 01/18/2021 Data Release Frequency: Semi-Annually
FUS	RAP: Formerly Utilized Sites Remedial Action F DOE established the Formerly Utilized Sites Re radioactive contamination remained from Manh	Program emedial Action Program (FUSRAP) in 1974 to remediate sites where nattan 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: 11/06/2020 Next Scheduled EDR Contact: 02/15/2021 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 Source: Department of Energy Telephone: 505-845-0011 Date Data Arrived at EDR: 11/15/2019 Last EDR Contact: 11/20/2020 Date Made Active in Reports: 01/28/2020 Number of Days to Update: 74 Next Scheduled EDR Contact: 03/01/2021 Data Release Frequency: Varies LEAD SMELTER 1: Lead Smelter Sites A listing of former lead smelter site locations. Date of Government Version: 10/28/2020 Source: Environmental Protection Agency Date Data Arrived at EDR: 11/05/2020 Telephone: 703-603-8787 Date Made Active in Reports: 11/25/2020 Last EDR Contact: 12/02/2020 Next Scheduled EDR Contact: 01/11/2021 Number of Days to Update: 20 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 Source: American Journal of Public Health Date Data Arrived at EDR: 10/27/2010 Telephone: 703-305-6451 Date Made Active in Reports: 12/02/2010 Last EDR Contact: 12/02/2009 Next Scheduled EDR Contact: N/A Number of Days to Update: 36 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. Source: EPA Date of Government Version: 10/12/2016 Date Data Arrived at EDR: 10/26/2016 Telephone: 202-564-2496 Last EDR Contact: 09/26/2017 Date Made Active in Reports: 02/03/2017 Next Scheduled EDR Contact: 01/08/2018 Number of Days to Update: 100 Data Release Frequency: Annually US AIRS MINOR: Air Facility System Data A listing of minor source facilities. Date of Government Version: 10/12/2016 Source: EPA Date Data Arrived at EDR: 10/26/2016 Telephone: 202-564-2496 Date Made Active in Reports: 02/03/2017 Last EDR Contact: 09/26/2017 Number of Days to Update: 100 Next Scheduled EDR Contact: 01/08/2018 Data Release Frequency: Annually MINES VIOLATIONS: MSHA Violation Assessment Data Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration. Date of Government Version: 09/10/2020 Source: DOL, Mine Safety & Health Admi Date Data Arrived at EDR: 09/15/2020 Telephone: 202-693-9424 Date Made Active in Reports: 11/20/2020 Last EDR Contact: 11/24/2020 Number of Days to Update: 66 Next Scheduled EDR Contact: 03/15/2021 Data Release Frequency: Quarterly US MINES: Mines Master Index File Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/04/2020 Date Data Arrived at EDR: 08/25/2020 Date Made Active in Reports: 11/18/2020 Number of Days to Update: 85 Source: Department of Labor, Mine Safety and Health Administration Telephone: 303-231-5959 Last EDR Contact: 11/23/2020 Next Scheduled EDR Contact: 03/08/2021 Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 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: 11/25/2020 Next Scheduled EDR Contact: 03/08/2021 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: 11/25/2020 Next Scheduled EDR Contact: 03/08/2021 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: 09/16/2020 Date Data Arrived at EDR: 09/17/2020 Date Made Active in Reports: 12/10/2020 Number of Days to Update: 84 Source: Department of Interior Telephone: 202-208-2609 Last EDR Contact: 12/10/2020 Next Scheduled EDR Contact: 03/22/2021 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: 09/04/2020 Date Data Arrived at EDR: 09/15/2020 Date Made Active in Reports: 11/20/2020 Number of Days to Update: 66 Source: EPA Telephone: (415) 947-8000 Last EDR Contact: 12/01/2020 Next Scheduled EDR Contact: 03/15/2021 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: 10/08/2020 Next Scheduled EDR Contact: 01/25/2021 Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Informa ECHO provides integrated compliance and en	tion forcement information for about 800,000 regulated facilities nationwide.
Date of Government Version: 06/27/2020 Date Data Arrived at EDR: 07/02/2020 Date Made Active in Reports: 09/28/2020 Number of Days to Update: 88	Source: Environmental Protection Agency Telephone: 202-564-2280 Last EDR Contact: 10/06/2020 Next Scheduled EDR Contact: 01/18/2021 Data Release Frequency: Quarterly
DOCKET HWC: Hazardous Waste Compliance Doo A complete list of the Federal Agency Hazardo	cket Listing ous Waste Compliance Docket Facilities.
Date of Government Version: 05/31/2018 Date Data Arrived at EDR: 07/26/2018 Date Made Active in Reports: 10/05/2018 Number of Days to Update: 71	Source: Environmental Protection Agency Telephone: 202-564-0527 Last EDR Contact: 11/17/2020 Next Scheduled EDR Contact: 03/08/2021 Data Release Frequency: Varies
FUELS PROGRAM: EPA Fuels Program Registere This listing includes facilities that are registere Programs. All companies now are required to	d Listing d under the Part 80 (Code of Federal Regulations) EPA Fuels submit new and updated registrations.
Date of Government Version: 08/17/2020 Date Data Arrived at EDR: 08/17/2020 Date Made Active in Reports: 10/21/2020 Number of Days to Update: 65	Source: EPA Telephone: 800-385-6164 Last EDR Contact: 11/13/2020 Next Scheduled EDR Contact: 03/01/2021 Data Release Frequency: Quarterly
CA BOND EXP. PLAN: Bond Expenditure Plan Department of Health Services developed a si Hazardous Substance Cleanup Bond Act fund	te-specific expenditure plan as the basis for an appropriation of s. 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 & Substan The sites for the list are designated by the Sta Board (SWF/LS), and the Department of Toxic	ices Sites List te Water Resource Control Board (LUST), the Integrated Waste Substances Control (Cal-Sites).
Date of Government Version: 06/22/2020 Date Data Arrived at EDR: 06/22/2020 Date Made Active in Reports: 09/04/2020 Number of Days to Update: 74	Source: CAL EPA/Office of Emergency Information Telephone: 916-323-3400 Last EDR Contact: 09/23/2020 Next Scheduled EDR Contact: 01/04/2021 Data Release Frequency: Quarterly
CUPA LIVERMORE-PLEASANTON: CUPA Facility list of facilities associated with the various CUI	/ Listing PA 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: 11/13/2020 Next Scheduled EDR Contact: 02/22/2021

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing A listing of dry cleaners in the South Coast Air Quality Management District

Data Release Frequency: Varies

Date of Government Version: 08/19/2020 Date Data Arrived at EDR: 08/21/2020 Date Made Active in Reports: 09/04/2020 Number of Days to Update: 14	Source: South Coast Air Quality Management District Telephone: 909-396-3211 Last EDR Contact: 11/16/2020 Next Scheduled EDR Contact: 03/08/2021 Data Release Frequency: Varies
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: 08/25/2020 Date Data Arrived at EDR: 08/26/2020 Date Made Active in Reports: 11/13/2020 Number of Days to Update: 79	Source: Antelope Valley Air Quality Management District Telephone: 661-723-8070 Last EDR Contact: 11/23/2020 Next Scheduled EDR Contact: 03/15/2021 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: 08/06/2020 Date Data Arrived at EDR: 08/28/2020 Date Made Active in Reports: 11/17/2020 Number of Days to Update: 81	Source: Department of Toxic Substance Control Telephone: 916-327-4498 Last EDR Contact: 11/23/2020 Next Scheduled EDR Contact: 03/15/2021 Data Release Frequency: Annually
EMI: Emissions Inventory Data Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.	
Date of Government Version: 12/31/2018 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: 09/18/2020 Next Scheduled EDR Contact: 12/28/2020 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: 07/20/2020 Date Data Arrived at EDR: 07/21/2020 Date Made Active in Reports: 10/07/2020 Number of Days to Update: 78	Source: State Water Resoruces Control Board Telephone: 916-445-9379 Last EDR Contact: 10/19/2020 Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: Varies
Financial Assurance 1: Financial Assurance Information Listing Financial Assurance information	
Date of Government Version: 07/13/2020 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 Toxic Substances Control Telephone: 916-255-3628 Last EDR Contact: 10/13/2020 Next Scheduled EDR Contact: 02/01/2021 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: 08/05/2020 Date Data Arrived at EDR: 08/05/2020 Date Made Active in Reports: 10/23/2020 Number of Days to Update: 79 Source: California Integrated Waste Management Board Telephone: 916-341-6066 Last EDR Contact: 11/04/2020 Next Scheduled EDR Contact: 02/22/2021 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: 10/05/2020 Next Scheduled EDR Contact: 01/18/2021 Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 08/17/2020 Date Data Arrived at EDR: 08/17/2020 Date Made Active in Reports: 11/05/2020 Number of Days to Update: 80 Source: Department of Toxic Subsances Control Telephone: 877-786-9427 Last EDR Contact: 11/13/2020 Next Scheduled EDR Contact: 03/01/2021 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: 08/17/2020 Date Data Arrived at EDR: 08/17/2020 Date Made Active in Reports: 11/05/2020 Number of Days to Update: 80

Source: Department of Toxic Substances Control Telephone: 916-323-3400 Last EDR Contact: 11/13/2020 Next Scheduled EDR Contact: 03/01/2021 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: 07/06/2020 Date Data Arrived at EDR: 07/07/2020 Date Made Active in Reports: 09/17/2020 Number of Days to Update: 72 Source: Department of Toxic Substances Control Telephone: 916-440-7145 Last EDR Contact: 10/06/2020 Next Scheduled EDR Contact: 01/18/2021 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: 09/08/2020 Source: Department of Conservation Date Data Arrived at EDR: 09/08/2020 Telephone: 916-322-1080 Date Made Active in Reports: 11/30/2020 Last EDR Contact: 12/08/2020 Next Scheduled EDR Contact: 03/22/2021 Number of Days to Update: 83 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: 08/31/2020 Source: Department of Public Health Date Data Arrived at EDR: 08/31/2020 Telephone: 916-558-1784 Last EDR Contact: 12/01/2020 Date Made Active in Reports: 11/20/2020 Number of Days to Update: 81 Next Scheduled EDR Contact: 03/15/2021 Data Release Frequency: Varies NPDES: NPDES Permits Listing A listing of NPDES permits, including stormwater. Date of Government Version: 08/10/2020 Source: State Water Resources Control Board Date Data Arrived at EDR: 08/10/2020 Telephone: 916-445-9379 Last EDR Contact: 11/09/2020 Date Made Active in Reports: 10/29/2020 Next Scheduled EDR Contact: 02/22/2021 Number of Days to Update: 80 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 Source: Department of Pesticide Regulation Date of Government Version: 08/31/2020 Date Data Arrived at EDR: 08/31/2020 Telephone: 916-445-4038 Last EDR Contact: 12/01/2020 Date Made Active in Reports: 11/20/2020 Number of Days to Update: 81 Next Scheduled EDR Contact: 03/15/2021 Data Release Frequency: Quarterly PROC: Certified Processors Database A listing of certified processors. Date of Government Version: 09/08/2020 Source: Department of Conservation Date Data Arrived at EDR: 09/08/2020 Telephone: 916-323-3836 Date Made Active in Reports: 12/01/2020 Last EDR Contact: 12/08/2020 Number of Days to Update: 84 Next Scheduled EDR Contact: 03/22/2021 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: 12/07/2020 Source: State Water Resources Control Board Date Data Arrived at EDR: 12/09/2020 Telephone: 916-445-3846 Date Made Active in Reports: 12/10/2020 Last EDR Contact: 12/07/2020 Number of Days to Update: 1 Next Scheduled EDR Contact: 03/29/2021

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: 09/08/2020 Date Data Arrived at EDR: 09/08/2020 Date Made Active in Reports: 12/01/2020 Number of Days to Update: 84 Source: Deaprtment of Conservation Telephone: 916-445-2408 Last EDR Contact: 12/08/2020 Next Scheduled EDR Contact: 03/22/2021 Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER) Underground control injection sites

Date of Government Version: 09/08/2020 Date Data Arrived at EDR: 09/08/2020 Date Made Active in Reports: 11/30/2020 Number of Days to Update: 83 Source: State Water Resource Control Board Telephone: 866-480-1028 Last EDR Contact: 12/04/2020 Next Scheduled EDR Contact: 03/22/2021 Data Release Frequency: Varies

Source: RWQCB, Central Valley Region

Next Scheduled EDR Contact: 01/18/2021

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.

Telephone: 559-445-5577

Last EDR Contact: 10/09/2020

Data Release Frequency: Varies

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

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 requirements. Source: State Water Resources Control Board Telephone: 916-341-5227 Last EDR Contact: 11/13/2020 Next Scheduled EDR Contact: 03/01/2021 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: 09/16/2020 Next Scheduled EDR Contact: 01/04/2021 Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER) Military privatized sites

Date of Government Version: 09/08/2020 Date Data Arrived at EDR: 09/08/2020 Date Made Active in Reports: 11/30/2020 Number of Days to Update: 83 Source: State Water Resources Control Board Telephone: 866-480-1028 Last EDR Contact: 12/04/2020 Next Scheduled EDR Contact: 03/22/2021 Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER) Projects sites

Date of Government Version: 09/08/2020 Date Data Arrived at EDR: 09/08/2020 Date Made Active in Reports: 11/30/2020 Number of Days to Update: 83 Source: State Water Resources Control Board Telephone: 866-480-1028 Last EDR Contact: 12/04/2020 Next Scheduled EDR Contact: 03/22/2021 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: 09/08/2020 Date Data Arrived at EDR: 09/08/2020 Date Made Active in Reports: 12/01/2020 Number of Days to Update: 84 Source: State Water Resources Control Board Telephone: 916-341-5810 Last EDR Contact: 12/08/2020 Next Scheduled EDR Contact: 03/22/2021 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: 08/31/2020 Date Data Arrived at EDR: 08/31/2020 Date Made Active in Reports: 11/20/2020 Number of Days to Update: 81 Source: State Water Resources Control Board Telephone: 866-794-4977 Last EDR Contact: 12/01/2020 Next Scheduled EDR Contact: 03/01/2021 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: 07/20/2020 Date Data Arrived at EDR: 07/21/2020 Date Made Active in Reports: 10/07/2020 Number of Days to Update: 78 Source: California Environmental Protection Agency Telephone: 916-323-2514 Last EDR Contact: 10/19/2020 Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER) Non-Case Information sites

Date of Government Version: 09/08/2020 Date Data Arrived at EDR: 09/08/2020 Date Made Active in Reports: 11/30/2020 Number of Days to Update: 83 Source: State Water Resources Control Board Telephone: 866-480-1028 Last EDR Contact: 12/04/2020 Next Scheduled EDR Contact: 03/22/2021 Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER) Other Oil & Gas Projects sites

Date of Government Version: 09/08/2020 Date Data Arrived at EDR: 09/08/2020 Date Made Active in Reports: 11/30/2020 Number of Days to Update: 83 Source: State Water Resources Control Board Telephone: 866-480-1028 Last EDR Contact: 12/04/2020 Next Scheduled EDR Contact: 03/22/2021 Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER) Produced water ponds sites	
Date of Government Version: 09/08/2020 Date Data Arrived at EDR: 09/08/2020 Date Made Active in Reports: 11/30/2020 Number of Days to Update: 83	Source: State Water Resources Control Board Telephone: 866-480-1028 Last EDR Contact: 12/04/2020 Next Scheduled EDR Contact: 03/22/2021 Data Release Frequency: Varies
SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER) Sampling point - public sites	
Date of Government Version: 09/08/2020 Date Data Arrived at EDR: 09/08/2020 Date Made Active in Reports: 11/30/2020 Number of Days to Update: 83	Source: State Water Resources Control Board Telephone: 866-480-1028 Last EDR Contact: 12/04/2020 Next Scheduled EDR Contact: 03/22/2021 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: 09/08/2020 Date Data Arrived at EDR: 09/08/2020 Date Made Active in Reports: 11/30/2020 Number of Days to Update: 83	Source: State Water Resources Control Board Telephone: 866-480-1028 Last EDR Contact: 12/04/2020 Next Scheduled EDR Contact: 03/22/2021 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: 10/02/2020 Next Scheduled EDR Contact: 01/18/2021 Data Release Frequency: Semi-Annually
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: 10/02/2020 Next Scheduled EDR Contact: 01/18/2021 Data Release Frequency: Semi-Annually
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: 10/02/2020 Next Scheduled EDR Contact: 01/18/2021 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: 11/25/2020 Next Scheduled EDR Contact: 03/08/2021 Data Release Frequency: Varies

Source: Department of Toxic Substances Control

Next Scheduled EDR Contact: 01/18/2021 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.

Telephone: 916-324-2444

Last EDR Contact: 10/01/2020

Date of Government Version: 10/13/2020 Date Data Arrived at EDR: 10/14/2020 Date Made Active in Reports: 11/03/2020 Number of Days to Update: 20

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: 10/01/2020 Next Scheduled EDR Contact: 01/18/2021 Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks Underground storage tank sites located in Alameda county.

Date of Government Version: 06/30/2020 Date Data Arrived at EDR: 07/01/2020 Date Made Active in Reports: 07/17/2020 Number of Days to Update: 16

Source: Alameda County Environmental Health Services Telephone: 510-567-6700 Last EDR Contact: 10/01/2020 Next Scheduled EDR Contact: 01/18/2021 Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List Cupa Facility List

> Date of Government Version: 05/18/2020 Date Data Arrived at EDR: 05/19/2020 Date Made Active in Reports: 06/01/2020 Number of Days to Update: 13

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

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing Cupa Facility Listing

> Date of Government Version: 06/17/2020 Date Data Arrived at EDR: 06/18/2020 Date Made Active in Reports: 09/02/2020 Number of Days to Update: 76

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: 10/28/2020 Next Scheduled EDR Contact: 02/15/2021 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: 07/16/2020 Date Data Arrived at EDR: 07/22/2020 Date Made Active in Reports: 10/08/2020 Number of Days to Update: 78 Source: Contra Costa Health Services Department Telephone: 925-646-2286 Last EDR Contact: 10/20/2020 Next Scheduled EDR Contact: 02/08/2021 Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

Source: Amador County Environmental Health Telephone: 209-223-6439 Last EDR Contact: 10/19/2020 Next Scheduled EDR Contact: 02/15/2021 Data Release Frequency: Varies

Source: Public Health Department Telephone: 530-538-7149 Last EDR Contact: 10/01/2020 Next Scheduled EDR Contact: 01/18/2021 Data Release Frequency: No Update Planned

Source: Calveras County Environmental Health

Next Scheduled EDR Contact: 01/04/2021

Telephone: 209-754-6399

Last EDR Contact: 10/01/2020

Data Release Frequency: Quarterly

CUPA DEL NORTE: CUPA Facility List Cupa Facility list

> Date of Government Version: 06/08/2020 Date Data Arrived at EDR: 08/13/2020 Date Made Active in Reports: 10/22/2020 Number of Days to Update: 70

Source: Del Norte County Environmental Health Division Telephone: 707-465-0426 Last EDR Contact: 10/20/2020 Next Scheduled EDR Contact: 02/08/2021 Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List CUPA facility list.

> Date of Government Version: 08/13/2020 Date Data Arrived at EDR: 08/13/2020 Date Made Active in Reports: 10/22/2020 Number of Days to Update: 70

Source: El Dorado County Environmental Management Department Telephone: 530-621-6623 Last EDR Contact: 10/20/2020 Next Scheduled EDR Contact: 02/08/2021 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: 06/30/2020 Date Data Arrived at EDR: 07/01/2020 Date Made Active in Reports: 09/17/2020 Number of Days to Update: 78 Source: Dept. of Community Health Telephone: 559-445-3271 Last EDR Contact: 10/02/2020 Next Scheduled EDR Contact: 01/11/2021 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: 10/13/2020 Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List CUPA facility list.

> Date of Government Version: 08/13/2020 Date Data Arrived at EDR: 08/17/2020 Date Made Active in Reports: 11/05/2020 Number of Days to Update: 80

Source: Humboldt County Environmental Health Telephone: N/A Last EDR Contact: 11/11/2020 Next Scheduled EDR Contact: 03/01/2021 Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List Cupa facility list.

> 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: San Diego Border Field Office Telephone: 760-339-2777 Last EDR Contact: 10/13/2020 Next Scheduled EDR Contact: 02/01/2021 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: 11/11/2020 Next Scheduled EDR Contact: 03/01/2021 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: 07/28/2020 Date Data Arrived at EDR: 07/30/2020 Date Made Active in Reports: 10/13/2020 Number of Days to Update: 75

UST KERN: Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

Date of Government Version: 07/28/2020 Date Data Arrived at EDR: 07/30/2020 Date Made Active in Reports: 10/14/2020 Number of Days to Update: 76 Listing Source: Kem County Environment Health Services Department Telephone: 661-862-8700 Last EDR Contact: 10/28/2020

Next Scheduled EDR Contact: 02/15/2021 Data Release Frequency: Quarterly

Source: Kern County Public Health Telephone: 661-321-3000

Next Scheduled EDR Contact: 02/15/2021

Last EDR Contact: 10/28/2020

Data Release Frequency: Varies

KINGS COUNTY:

CUPA KINGS: CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/11/2020 Date Data Arrived at EDR: 05/12/2020 Date Made Active in Reports: 07/27/2020 Number of Days to Update: 76 Source: Kings County Department of Public Health Telephone: 559-584-1411 Last EDR Contact: 12/03/2020 Next Scheduled EDR Contact: 03/01/2021 Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List Cupa facility list

Date of Government Version: 08/13/2020 Date Data Arrived at EDR: 08/13/2020 Date Made Active in Reports: 10/23/2020 Number of Days to Update: 71 Source: Lake County Environmental Health Telephone: 707-263-1164 Last EDR Contact: 10/07/2020 Next Scheduled EDR Contact: 01/25/2021 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: 10/13/2020 Next Scheduled EDR Contact: 02/01/2021 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: 12/09/2020 Next Scheduled EDR Contact: 03/29/2021 Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List Industrial Waste and Underground Storage Tank Sites

Date of Government Version: 07/06/2020 Date Data Arrived at EDR: 07/10/2020 Date Made Active in Reports: 09/28/2020 Number of Days to Update: 80

LF LOS ANGELES: List of Solid Waste Facilities Solid Waste Facilities in Los Angeles County.

> Date of Government Version: 07/13/2020 Date Data Arrived at EDR: 07/13/2020 Date Made Active in Reports: 09/29/2020 Number of Days to Update: 78

Source: Department of Public Works Telephone: 626-458-3517 Last EDR Contact: 10/01/2020 Next Scheduled EDR Contact: 01/18/2021 Data Release Frequency: Semi-Annually

Source: La County Department of Public Works Telephone: 818-458-5185 Last EDR Contact: 10/09/2020 Next Scheduled EDR Contact: 01/25/2021 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: 12/31/2019 Date Data Arrived at EDR: 08/17/2020 Date Made Active in Reports: 11/05/2020 Number of Days to Update: 80 Source: Engineering & Construction Division Telephone: 213-473-7869 Last EDR Contact: 10/07/2020 Next Scheduled EDR Contact: 01/25/2021 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: 09/25/2020 Next Scheduled EDR Contact: 01/04/2021 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: 04/30/2012 Date Data Arrived at EDR: 04/17/2019 Date Made Active in Reports: 05/29/2019 Number of Days to Update: 42 Source: Los Angeles County Department of Public Works Telephone: 626-458-6973 Last EDR Contact: 10/12/2020 Next Scheduled EDR Contact: 01/25/2021 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: 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: 09/25/2020 Next Scheduled EDR Contact: 01/04/2021 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

SITE MIT LOS ANGELES: Site Mitigation List Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/25/2020 Date Data Arrived at EDR: 04/14/2020 Date Made Active in Reports: 07/01/2020 Number of Days to Update: 78 Source: Los Angeles Fire Department Telephone: 213-978-3800 Last EDR Contact: 09/25/2020 Next Scheduled EDR Contact: 01/04/2021 Data Release Frequency: Varies

an or complaint.

Source: Community Health Services Telephone: 323-890-7806 Last EDR Contact: 10/09/2020 Next Scheduled EDR Contact: 01/25/2021 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: 10/07/2020 Next Scheduled EDR Contact: 01/25/2021 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: 10/13/2020 Next Scheduled EDR Contact: 02/01/2021 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: 06/27/2019 Date Data Arrived at EDR: 07/30/2019 Date Made Active in Reports: 10/02/2019 Number of Days to Update: 64 Source: City of Torrance Fire Department Telephone: 310-618-2973 Last EDR Contact: 10/05/2020 Next Scheduled EDR Contact: 02/01/2021 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: 11/11/2020 Next Scheduled EDR Contact: 03/01/2021 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: 09/23/2020 Next Scheduled EDR Contact: 01/11/2021 Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List CUPA facility list.

> Date of Government Version: 07/28/2020 Date Data Arrived at EDR: 07/30/2020 Date Made Active in Reports: 07/31/2020 Number of Days to Update: 1

Source: Merced County Environmental Health Telephone: 209-381-1094 Last EDR Contact: 11/11/2020 Next Scheduled EDR Contact: 03/01/2021 Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List CUPA Facility List

Date of Government Version: 08/20/2020 Date Data Arrived at EDR: 08/24/2020 Date Made Active in Reports: 11/09/2020 Number of Days to Update: 77 Source: Mono County Health Department Telephone: 760-932-5580 Last EDR Contact: 11/15/2020 Next Scheduled EDR Contact: 03/08/3021 Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 07/13/2020 Date Data Arrived at EDR: 07/15/2020 Date Made Active in Reports: 07/31/2020 Number of Days to Update: 16 Source: Monterey County Health Department Telephone: 831-796-1297 Last EDR Contact: 09/23/2020 Next Scheduled EDR Contact: 01/11/2021 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: 11/16/2020 Next Scheduled EDR Contact: 03/08/2021 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: 11/16/2020 Next Scheduled EDR Contact: 03/08/2021 Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List CUPA facility list.

> Date of Government Version: 07/29/2020 Date Data Arrived at EDR: 07/30/2020 Date Made Active in Reports: 10/13/2020 Number of Days to Update: 75

Source: Community Development Agency Telephone: 530-265-1467 Last EDR Contact: 10/20/2020 Next Scheduled EDR Contact: 02/08/2021 Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups Petroleum and non-petroleum spills.

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Date of Government Version: 06/10/2020 Date Data Arrived at EDR: 08/03/2020 Date Made Active in Reports: 10/19/2020 Number of Days to Update: 77 Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 11/02/2020 Next Scheduled EDR Contact: 02/15/2021 Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 07/02/2020 Date Data Arrived at EDR: 08/05/2020 Date Made Active in Reports: 10/23/2020 Number of Days to Update: 79 Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 11/02/2020 Next Scheduled EDR Contact: 02/15/2021 Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 07/01/2020 Date Data Arrived at EDR: 08/03/2020 Date Made Active in Reports: 10/19/2020 Number of Days to Update: 77 Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 11/03/2020 Next Scheduled EDR Contact: 02/15/2021 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: 11/24/2020 Date Data Arrived at EDR: 11/24/2020 Date Made Active in Reports: 11/25/2020 Number of Days to Update: 1 Source: Placer County Health and Human Services Telephone: 530-745-2363 Last EDR Contact: 11/23/2020 Next Scheduled EDR Contact: 03/15/2021 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: 10/13/2020 Next Scheduled EDR Contact: 02/01/2021 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: 10/06/2020 Date Data Arrived at EDR: 10/07/2020 Date Made Active in Reports: 11/03/2020 Number of Days to Update: 27 Source: Department of Environmental Health Telephone: 951-358-5055 Last EDR Contact: 12/09/2020 Next Scheduled EDR Contact: 03/29/2021 Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List Underground storage tank sites located in Riverside county.

Date of Government Version: 10/06/2020 Date Data Arrived at EDR: 10/07/2020 Date Made Active in Reports: 11/03/2020 Number of Days to Update: 27 Source: Department of Environmental Health Telephone: 951-358-5055 Last EDR Contact: 12/09/2020 Next Scheduled EDR Contact: 03/29/2021 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: 02/18/2020 Date Data Arrived at EDR: 03/31/2020 Date Made Active in Reports: 06/15/2020 Number of Days to Update: 76 Source: Sacramento County Environmental Management Telephone: 916-875-8406 Last EDR Contact: 10/02/2020 Next Scheduled EDR Contact: 01/11/2021 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: 02/24/2020 Date Data Arrived at EDR: 03/31/2020 Date Made Active in Reports: 06/17/2020 Number of Days to Update: 78 Source: Sacramento County Environmental Management Telephone: 916-875-8406 Last EDR Contact: 10/02/2020 Next Scheduled EDR Contact: 01/11/2021 Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List Cupa facility list

> Date of Government Version: 08/04/2020 Date Data Arrived at EDR: 08/05/2020 Date Made Active in Reports: 10/22/2020 Number of Days to Update: 78

Source: San Benito County Environmental Health Telephone: N/A Last EDR Contact: 10/28/2020 Next Scheduled EDR Contact: 02/15/2021 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: 08/04/2020 Date Data Arrived at EDR: 08/05/2020 Date Made Active in Reports: 10/26/2020 Number of Days to Update: 82 Source: San Bernardino County Fire Department Hazardous Materials Division Telephone: 909-387-3041 Last EDR Contact: 10/28/2020 Next Scheduled EDR Contact: 02/15/2021 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: 08/31/2020 Date Data Arrived at EDR: 08/31/2020 Date Made Active in Reports: 11/23/2020 Number of Days to Update: 84 Source: Hazardous Materials Management Division Telephone: 619-338-2268 Last EDR Contact: 12/01/2020 Next Scheduled EDR Contact: 03/15/2021 Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities San Diego County Solid Waste Facilities.

> Date of Government Version: 04/18/2018 Date Data Arrived at EDR: 04/24/2018 Date Made Active in Reports: 06/19/2018 Number of Days to Update: 56

Source: Department of Health Services Telephone: 619-338-2209 Last EDR Contact: 11/16/2020 Next Scheduled EDR Contact: 02/01/2021 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: 10/13/2020 Next Scheduled EDR Contact: 02/01/2021 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: 11/23/2020 Next Scheduled EDR Contact: 03/15/2021 Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing Cupa facilities

> Date of Government Version: 08/03/2020 Date Data Arrived at EDR: 08/05/2020 Date Made Active in Reports: 10/22/2020 Number of Days to Update: 78

Source: San Francisco County Department of Environmental Health Telephone: 415-252-3896 Last EDR Contact: 10/28/2020 Next Scheduled EDR Contact: 02/15/2021 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: 10/28/2020 Next Scheduled EDR Contact: 02/15/2021 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: 08/03/2020 Date Data Arrived at EDR: 08/05/2020 Date Made Active in Reports: 10/26/2020 Number of Days to Update: 82 Source: Department of Public Health Telephone: 415-252-3920 Last EDR Contact: 10/28/2020 Next Scheduled EDR Contact: 02/15/2021 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: 12/09/2020 Next Scheduled EDR Contact: 03/29/2021 Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List Cupa Facility List.

> Date of Government Version: 07/27/2020 Date Data Arrived at EDR: 08/12/2020 Date Made Active in Reports: 10/26/2020 Number of Days to Update: 75

Source: San Luis Obispo County Public Health Department Telephone: 805-781-5596 Last EDR Contact: 11/11/2020 Next Scheduled EDR Contact: 03/01/2021 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: 12/11/2020 Next Scheduled EDR Contact: 03/22/2021 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: 12/01/2020 Next Scheduled EDR Contact: 03/22/2021 Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011 Date Data Arrived at EDR: 09/09/2011 Date Made Active in Reports: 10/07/2011 Number of Days to Update: 28 Source: Santa Barbara County Public Health Department Telephone: 805-686-8167 Last EDR Contact: 11/11/2020 Next Scheduled EDR Contact: 03/01/2021 Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List Cupa facility list

> Date of Government Version: 08/20/2020 Date Data Arrived at EDR: 08/20/2020 Date Made Active in Reports: 11/09/2020 Number of Days to Update: 81

Source: Department of Environmental Health Telephone: 408-918-1973 Last EDR Contact: 11/11/2020 Next Scheduled EDR Contact: 03/01/2021 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: 11/16/2020 Next Scheduled EDR Contact: 03/08/2021 Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 07/30/2020 Date Data Arrived at EDR: 07/31/2020 Date Made Active in Reports: 10/16/2020 Number of Days to Update: 77

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 Last EDR Contact: 10/28/2020 Next Scheduled EDR Contact: 02/15/2021 Data Release Frequency: Annually

Source: City of San Jose Fire Department

Telephone: 408-535-7694

Source: Santa Cruz County Environmental Health Telephone: 831-464-2761 Last EDR Contact: 11/11/2020 Next Scheduled EDR Contact: 03/01/2021 Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHA Cupa	STA: CUPA Facility List Facility List.	
Date o Date I Date Numb	of Government Version: 06/15/2017 Data Arrived at EDR: 06/19/2017 Made Active in Reports: 08/09/2017 er of Days to Update: 51	Source: Shasta County Department of Resource Management Telephone: 530-225-5789 Last EDR Contact: 11/11/2020 Next Scheduled EDR Contact: 03/01/2021 Data Release Frequency: Varies
SOLANO C	OUNTY:	
LUST SOLA A listir	NO: Leaking Underground Storage Taning of leaking underground storage tank si	ks tes located in Solano county.
Date o Date I Date Numb	of Government Version: 06/04/2019 Data Arrived at EDR: 06/06/2019 Made Active in Reports: 08/13/2019 er of Days to Update: 68	Source: Solano County Department of Environmental Management Telephone: 707-784-6770 Last EDR Contact: 06/03/2019 Next Scheduled EDR Contact: 03/15/2021 Data Release Frequency: Quarterly
UST SOLAI Under	NO: Underground Storage Tanks ground storage tank sites located in Sola	no county.
Date c Date I Date Numb	of Government Version: 08/25/2020 Data Arrived at EDR: 08/26/2020 Made Active in Reports: 09/16/2020 er of Days to Update: 21	Source: Solano County Department of Environmental Management Telephone: 707-784-6770 Last EDR Contact: 12/03/2020 Next Scheduled EDR Contact: 03/15/2021 Data Release Frequency: Quarterly
SONOMA C	COUNTY:	
CUPA SON Cupa	OMA: Cupa Facility List Facility list	
Date o Date I Date N Numb	of Government Version: 07/07/2020 Data Arrived at EDR: 07/08/2020 Made Active in Reports: 09/25/2020 er of Days to Update: 79	Source: County of Sonoma Fire & Emergency Services Department Telephone: 707-565-1174 Last EDR Contact: 09/16/2020 Next Scheduled EDR Contact: 01/04/2021 Data Release Frequency: Varies
LUST SON A listir	OMA: Leaking Underground Storage Tar ng of leaking underground storage tank si	ik Sites tes located in Sonoma county.
Date o Date I Date Numb	of Government Version: 09/18/2020 Data Arrived at EDR: 09/22/2020 Made Active in Reports: 12/14/2020 er of Days to Update: 83	Source: Department of Health Services Telephone: 707-565-6565 Last EDR Contact: 09/16/2020 Next Scheduled EDR Contact: 01/04/2021 Data Release Frequency: Quarterly
STANISLAU	JS COUNTY:	
CUPA STAI Cupa	NISLAUS: CUPA Facility List facility list	
Date o Date I Date I	of Government Version: 02/04/2020 Data Arrived at EDR: 02/05/2020 Made Active in Reports: 04/15/2020	Source: Stanislaus County Department of Ennvironmental Protection Telephone: 209-525-6751 Last EDR Contact: 10/02/2020

Next Scheduled EDR Contact: 01/25/2021 Data Release Frequency: Varies

SUTTER COUNTY:

Number of Days to Update: 70

UST SUTTER: Underground Storage Tanks Underground storage tank sites located in Sutter county.

Date of Government Version: 08/25/2020 Date Data Arrived at EDR: 08/26/2020 Date Made Active in Reports: 11/17/2020 Number of Days to Update: 83 Source: Sutter County Environmental Health Services Telephone: 530-822-7500 Last EDR Contact: 11/23/2020 Next Scheduled EDR Contact: 03/15/2021 Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List Cupa facilities

> Date of Government Version: 08/11/2020 Date Data Arrived at EDR: 08/12/2020 Date Made Active in Reports: 10/26/2020 Number of Days to Update: 75

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List Cupa facility list

> 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

TULARE COUNTY:

CUPA TULARE: CUPA Facility List Cupa program facilities

> Date of Government Version: 08/06/2020 Date Data Arrived at EDR: 08/06/2020 Date Made Active in Reports: 10/26/2020 Number of Days to Update: 81

Source: Tehama County Department of Environmental Health Telephone: 530-527-8020 Last EDR Contact: 11/11/2020 Next Scheduled EDR Contact: 02/15/2021 Data Release Frequency: Varies

Source: Department of Toxic Substances Control Telephone: 760-352-0381 Last EDR Contact: 10/13/2020 Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: Varies

Source: Tulare County Environmental Health Services Division Telephone: 559-624-7400 Last EDR Contact: 10/28/2020 Next Scheduled EDR Contact: 02/15/2021 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: 10/13/2020 Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: Varies

VENTURA COUNTY:

BW	TVENTURA: Business Plan, Hazardous Waste The BWT list indicates by site address whether Producer (W), and/or Underground Tank (T) in	Producers, and Operating Underground Tanks r the Environmental Health Division has Business Plan (B), Waste formation.
	Date of Government Version: 07/10/2020 Date Data Arrived at EDR: 07/22/2020 Date Made Active in Reports: 10/08/2020 Number of Days to Update: 78	Source: Ventura County Environmental Health Division Telephone: 805-654-2813 Last EDR Contact: 10/19/2020 Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: Quarterly
LF \	/ENTURA: Inventory of Illegal Abandoned and I Ventura County Inventory of Closed, Illegal Ab	nactive Sites andoned, and Inactive Sites.
	Date of Government Version: 12/01/2011 Date Data Arrived at EDR: 12/01/2011 Date Made Active in Reports: 01/19/2012 Number of Days to Update: 49	Source: Environmental Health Division Telephone: 805-654-2813 Last EDR Contact: 09/23/2020 Next Scheduled EDR Contact: 01/11/2021 Data Release Frequency: No Update Planned
LUS	T VENTURA: Listing of Underground Tank Clea Ventura County Underground Storage Tank Cl	anup Sites eanup Sites (LUST).
	Date of Government Version: 05/29/2008 Date Data Arrived at EDR: 06/24/2008 Date Made Active in Reports: 07/31/2008 Number of Days to Update: 37	Source: Environmental Health Division Telephone: 805-654-2813 Last EDR Contact: 11/05/2020 Next Scheduled EDR Contact: 02/22/2021 Data Release Frequency: No Update Planned
ME	D WASTE VENTURA: Medical Waste Program I To protect public health and safety and the env Environmental Health Division Medical Waste I disposal of medical waste throughout the Court	List vironment from potential exposure to disease causing agents, the Program regulates the generation, handling, storage, treatment and ity.
	Date of Government Version: 07/10/2020 Date Data Arrived at EDR: 07/22/2020 Date Made Active in Reports: 10/07/2020 Number of Days to Update: 77	Source: Ventura County Resource Management Agency Telephone: 805-654-2813 Last EDR Contact: 10/19/2020 Next Scheduled EDR Contact: 02/01/2021 Data Release Frequency: Quarterly
UST	VENTURA: Underground Tank Closed Sites Li Ventura County Operating Underground Storage	st ge Tank Sites (UST)/Underground Tank Closed Sites List.
	Date of Government Version: 08/26/2020 Date Data Arrived at EDR: 09/08/2020 Date Made Active in Reports: 12/01/2020 Number of Days to Update: 84	Source: Environmental Health Division Telephone: 805-654-2813 Last EDR Contact: 12/08/2020 Next Scheduled EDR Contact: 03/22/2021 Data Release Frequency: Quarterly
YOL	O COUNTY:	
UST	YOLO: Underground Storage Tank Comprehe Underground storage tank sites located in Yold	nsive Facility Report
	Date of Government Version: 06/23/2020	Source: Yolo County Department of Health

Date of Government Version: 06/23/2020 Date Data Arrived at EDR: 06/29/2020 Date Made Active in Reports: 09/15/2020 Number of Days to Update: 78 Source: Yolo County Department of Health Telephone: 530-666-8646 Last EDR Contact: 10/07/2020 Next Scheduled EDR Contact: 01/11/2021 Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List CUPA facility listing for Yuba County.

> Date of Government Version: 08/06/2020 Date Data Arrived at EDR: 08/07/2020 Date Made Active in Reports: 10/26/2020 Number of Days to Update: 80

Source: Yuba County Environmental Health Department Telephone: 530-749-7523 Last EDR Contact: 11/03/2020 Next Scheduled EDR Contact: 02/08/2021 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: 08/10/2020 Date Data Arrived at EDR: 10/20/2020 Date Made Active in Reports: 11/02/2020 Number of Days to Update: 13

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

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

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

RI MANIFEST: Manifest information Hazardous waste manifest information

> Date of Government Version: 12/31/2018 Date Data Arrived at EDR: 10/02/2019 Date Made Active in Reports: 12/10/2019 Number of Days to Update: 69

Source: Department of Energy & Environmental Protection Telephone: 860-424-3375 Last EDR Contact: 11/09/2020 Next Scheduled EDR Contact: 02/22/2021 Data Release Frequency: No Update Planned

Source: Department of Environmental Protection Telephone: N/A Last EDR Contact: 10/09/2020 Next Scheduled EDR Contact: 01/18/2021 Data Release Frequency: Annually

Source: Department of Environmental Conservation Telephone: 518-402-8651 Last EDR Contact: 10/30/2020 Next Scheduled EDR Contact: 02/08/2021 Data Release Frequency: Quarterly

Source: Department of Environmental Protection Telephone: 717-783-8990 Last EDR Contact: 10/07/2020 Next Scheduled EDR Contact: 01/25/2021 Data Release Frequency: Annually

Source: Department of Environmental Management Telephone: 401-222-2797 Last EDR Contact: 11/11/2020 Next Scheduled EDR Contact: 03/01/2021 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: 12/03/2020 Next Scheduled EDR Contact: 03/22/2021 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

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

2450 NATOMAS PARK 2450 NATOMAS PARK SACRAMENTO, CA 95833

TARGET PROPERTY COORDINATES

Latitude (North): 38.61126 - 38° 36' 40.54" Longitude (West): 121.503939 - 121° 30' 14.18" Universal Tranverse Mercator: Zone 10 UTM X (Meters): 630259.1 UTM Y (Meters): 4274493.5 Elevation: 18 ft. above sea level USGS TOPOGRAPHIC MAP 5619750 SACRAMENTO WEST, CA Target Property Map: Version Date: 2012 5629066 RIO LINDA, CA Northeast Map: Version Date: 2012 5619748 SACRAMENTO EAST, Southeast Map: Version Date: 2012

2012

Northwest Map: Version Date:

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in

5619770 TAYLOR MONUMENT, CA

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.

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 North



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.

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

06067C0157J

FEMA FIRM Flood data

FEMA Source Type

FEMA Source Type

FEMA FIRM Flood data

FEMA FIRM Flood data FEMA FIRM Flood data

Additional Panels in search area:

06067C0045J 06067C0063J 06067C0176J

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property SACRAMENTO WEST NWI Electronic Data Coverage

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 Not Reported LOCATION FROM TP GENERAL DIRECTION GROUNDWATER FLOW

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

GEOLOGIC AGE IDENTIFICATION

Era:	Cenozoic	Category:	Stratifed Sequence
System:	Quaternary		
Series:	Quaternary		
Code:	Q (decoded above as Era, System & Ser	ries)	

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).







SITE NAME:	2450 Natomas Park		
ADDRESS:	2450 Natomas Park		
	Sacramento CA 95833		
LAT/LONG:	38.61126 / 121.503939		

	CLIENT: CONTACT: INQUIRY #: DATE:	ANALYTICAL ENVIRONMENT, Charlane Gross 6302266.2s December 15, 2020 12:41 pm	AL SERVICES Appendix D	
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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:	SAILBOAT
Soil Surface Texture:	silt 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:	Somewhat poorly drained
Hydric Status: Partially hydric	
Corrosion Potential - Uncoated Steel:	High
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

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	Bou	ndary		Classif	ication	Saturated hvdraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	16 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 8.4 Min: 7.4
2	16 inches	27 inches	stratified sandy loam to silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 8.4 Min: 7.4

			Soil Laye	Information				
	Boundary			Classification		Saturated		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)	
3	27 inches	33 inches	stratified sandy clay loam to silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 8.4 Min: 7.4	
4	33 inches	61 inches	stratified loam to silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 8.4 Min: 7.4	
	-							
Soil Map	DID: 2							
Soil Com	ponent Nam	e:	COSUMNES					
Soil Surfa	ace Texture:		silt loam					
Hydrologic Group:			Class D - Very s water table, or a	Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.				
Soil Drainage Class:			Somewhat poorl	Somewhat poorly drained				
Hydric Status: Partially hydric								
Corrosion Potential - Uncoated Steel:			el: High					
Depth to	Bedrock Min	:	> 0 inches					
Depth to	Watertable N	/lin:	> 0 inches	> 0 inches				

Soil Layer Information							
	Bou	Indary	Classification Saturated				
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6
2	7 inches	20 inches	stratified silty clay loam to clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6
3	20 inches	42 inches	stratified clay loam to clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6
4	42 inches	59 inches	stratified clay loam to clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils,	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	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

SEARCH DISTANCE (miles)
1.000
Nearest PWS within 1 mile
1.000

FEDERAL USGS WELL INFORMATION

MAP ID

WELL ID

LOCATION FROM TP

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	USGS40000189547	1/4 - 1/2 Mile NNW
E23	USGS40000189552	1/2 - 1 Mile ENE
G30	USGS40000189593	1/2 - 1 Mile North
31	USGS40000189510	1/2 - 1 Mile East

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	CAUSGSN00016756	1/4 - 1/2 Mile NNW
A3	CADWR8000038568	1/4 - 1/2 Mile North
B4	CAEDF0000089298	1/4 - 1/2 Mile ENE
B5	CAEDF0000105263	1/4 - 1/2 Mile ENE
B6	CAEDF0000133978	1/4 - 1/2 Mile ENE
B7	CAEDF0000076617	1/4 - 1/2 Mile ENE
B8	CAEDF0000091145	1/4 - 1/2 Mile ENE
B9	CAEDF0000017262	1/4 - 1/2 Mile ENE
C10	CAEDF0000018147	1/4 - 1/2 Mile East
C11	CAEDF000009682	1/4 - 1/2 Mile East
C12	CAEDF0000096708	1/4 - 1/2 Mile East
C13	CAEDF0000088678	1/4 - 1/2 Mile East
C14	CAEDF0000112337	1/2 - 1 Mile East
C15	CAEDF0000140930	1/2 - 1 Mile East
C16	CAEDF0000140962	1/2 - 1 Mile East
C17	CAEDF0000115317	1/2 - 1 Mile East
18	CADDW0000010566	1/2 - 1 Mile South
D19	CAEDF0000121647	1/2 - 1 Mile WNW
D20	CAEDF0000011933	1/2 - 1 Mile WNW
D21	CAEDF0000108457	1/2 - 1 Mile WNW
D22	CAEDF000009625	1/2 - 1 Mile WNW
E24	CAUSGSN00013289	1/2 - 1 Mile ENE
F25	CAEDF0000078072	1/2 - 1 Mile NW
F26	CAEDF0000118876	1/2 - 1 Mile NW
G27	CAUSGSN00015112	1/2 - 1 Mile North
F28	CAEDF0000115478	1/2 - 1 Mile NW
F29	CAEDF0000046984	1/2 - 1 Mile NW

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
1	CAOG13000008042	1/2 - 1 Mile West



SITE NAME: ADDRESS:	2450 Natomas Park 2450 Natomas Park	CLIENT: CONTACT:	ANALYTICAL ENVIRONMENTA Charlane Gross	L SERVICES
	Sacramento CA 95833	INQUIRY #:	6302266.2s	Appendix D
LAT/LONG:	38.61126 / 121.503939	DATE:	December 15, 2020 12:41 pm	

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Map ID Direction				
Distance Elevation			Database	EDR ID Number
A1 NNW 1/4 - 1/2 Mile Higher			CA WELLS	CAUSGSN00016756
Well ID: Source:	USGS-383655121301601 United States Geological Survey	Well Type:	UNK	
Other Name: Groundwater Quality Data: GeoTracker Data:	USGS-383655121301601 https://gamagroundwater.waterboard amp_date=&global_id=&assigned_n Not Reported	GAMA PFAS Testing: ds.ca.gov/gama/gamamap, lame=USGS-38365512130	Not R /public/GamaDat 01601&store_nur	eported aDisplay.asp?dataset=USGSNEW&s n=
 A2 NNW			FED USGS	USGS40000189547
1/4 - 1/2 Mile Higher				
Organization ID: Organization Name: Monitor Location:	USGS-CA USGS California Water Science Cer 009N004E23R002M	nter Type:	Well	
Description: HUC:	NAWQA DATA ENTRY COM VER 9 18020109	0.30.99 DAWSON BJ Drainage Area:	Not R	eported
Drainage Area Units: Contrib Drainage Area Unts:	Not Reported Not Reported	Contrib Drainage Area: Aquifer:	Not R Centr	eported al Valley aquifer system
Formation Type: Construction Date:	Sacramento Valley Aquifer	Aquifer Type: Well Depth:	Uncoi 48	nfined single aquifer
Well Depth Units: Well Hole Depth Units:	ft ft	Well Hole Depth:	48	
Ground water levels,Number of Feet below surface: Note:	Measurements: 2 11.97 Not Reported	Level reading date: Feet to sea level:	2004- Not R	05-26 eported
Level reading date: Feet to sea level:	1998-08-03 Not Reported	Feet below surface: Note:	9.58 Not R	eported
A3 North 1/4 - 1/2 Mile Higher			CA WELLS	CADWR8000038568
State Well #: Well Name: Well Type: Basin Name:	09N04E23R002M Bannon Creek Park Single Well North American	Station ID: Well Use: Well Depth: Well Completion Rpt #:	4804 ² Obser 48 Not R	1 rvation eported
B4 ENE 1/4 - 1/2 Mile Higher			CA WELLS	CAEDF0000089298
Well ID: Source: GAMA PFAS Testing:	T0606783253-MW-4 EDF Not Reported	Well Type: Other Name:	MONI MW-4	ITORING I

Groundwater Quality Data: GeoTracker Data:	https://gamagroundwater.wate date=&global_id=T06067832 https://geotracker.waterboard gned_name=MW-4	erboards.ca.gov/gama/gamai 53&assigned_name=MW-4&s s.ca.gov/profile_report.asp?c	map/public/GamaDat store_num= md=MWEDFResults	taDisplay.asp?dataset=EDF&samp_ &global_id=T0606783253&assi
B5 ENE 1/4 - 1/2 Mile Higher			CA WELLS	CAEDF0000105263
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	T0606783253-MW-3 EDF Not Reported https://gamagroundwater.wate date=&global_id=T060678328 https://geotracker.waterboard gned_name=MW-3	Well Type: Other Name: erboards.ca.gov/gama/gamar 53&assigned_name=MW-3& s.ca.gov/profile_report.asp?c	MON MW-3 map/public/GamaDat store_num= md=MWEDFResults	ITORING 3 taDisplay.asp?dataset=EDF&samp_ &global_id=T0606783253&assi
B6 ENE 1/4 - 1/2 Mile Higher		X	CA WELLS	CAEDF0000133978
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	T0606783253-MW-5 EDF Not Reported https://gamagroundwater.wate date=&global_id=T060678325 https://geotracker.waterboard gned_name=MW-5	Well Type; Other Name: erboards.ca.gov/gama/gamar 53&assigned_name=MW-5&s s.ca.gov/profile_report.asp?c	MON MW-5 store_num= md=MWEDFResults	ITORING 5 taDisplay.asp?dataset=EDF&samp_ &global_id=T0606783253&assi
B7 ENE 1/4 - 1/2 Mile Higher			CA WELLS	CAEDF0000076617
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	T0606783253-MW-2 EDF Not Reported https://gamagroundwater.wate date=&global_id=T060678325 https://geotracker.waterboard gned_name=MW-2	Well Type: Other Name: erboards.ca.gov/gama/gamar 53&assigned_name=MW-2&s s.ca.gov/profile_report.asp?c	MON MW-2 map/public/GamaDat store_num= md=MWEDFResults	ITORING 2 taDisplay.asp?dataset=EDF&samp_ &global_id=T0606783253&assi
B8 ENE 1/4 - 1/2 Mile Higher			CA WELLS	CAEDF0000091145

 Well ID:
 T0606783253-MW-1
 Well Type:
 MONITORING

 Source:
 EDF
 Other Name:
 MW-1

 GAMA PFAS Testing:
 Not Reported
 https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_ date=&global_id=T0606783253&assigned_name=MW-1&store_num=

GeoTracker Data:

https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606783253&assi aned name=MW-1



Map ID Direction				
Elevation			Database	EDR ID Number
C13 East 1/4 - 1/2 Mile Higher			CA WELLS	CAEDF0000088678
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	SL0606778991-MW-2D EDF Not Reported https://gamagroundwater.waterl date=&global_id=SL060677899 https://geotracker.waterboards.u igned_name=MW-2D	Well Type: Other Name: boards.ca.gov/gama/gamar 11&assigned_name=MW-2E ca.gov/profile_report.asp?cl	MON MW-2 nap/public/GamaDa 0&store_num= md=MWEDFResults	ITORING 2D taDisplay.asp?dataset=EDF&samp_ &global_id=SL0606778991&ass
C14 East 1/2 - 1 Mile Higher			CA WELLS	CAEDF0000112337
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data:	SL0606778991-MW-4S EDF Not Reported https://gamagroundwater.water/ date=&global_id=SL060677899	Well Type: Other Name: boards.ca.gov/gama/gamar	MON MW-4 nap/public/GamaDa S&store_num=	ITORING 4S taDisplay.asp?dataset=EDF&samp_
GeoTracker Data:	https://geotracker.waterboards. igned_name=MW-4S	ca.gov/profile_report.asp?ci	md=MWEDFResults	&global_id=SL0606778991&ass
C15 East 1/2 - 1 Mile Higher			CA WELLS	CAEDF0000140930
Well ID: Source: GAMA PFAS Testing:	SL0606778991-MW-5S EDF Not Reported	Well Type: Other Name:	MON MW-5	ITORING 5S
Groundwater Quality Data: GeoTracker Data:	https://gamagroundwater.water date=&global_id=SL060677899 https://geotracker.waterboards. igned_name=MW-5S	boards.ca.gov/gama/gamar 14&assigned_name=MW-55 ca.gov/profile_report.asp?ci	nap/public/GamaDa S&store_num= md=MWEDFResults	taDisplay.asp?dataset=EDF&samp_ &global_id=SL0606778991&ass
C16 East 1/2 - 1 Mile Higher			CA WELLS	CAEDF0000140962
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data:	SL0606778991-MW-3S EDF Not Reported https://gamagroundwater.water date=&global_id=SL060677899	Well Type: Other Name: boards.ca.gov/gama/gamar 14&assigned_name=MW-3S	MON MW-3 nap/public/GamaDa S&store_num=	ITORING 3S taDisplay.asp?dataset=EDF&samp_
GeoTracker Data:	https://geotracker.waterboards.v igned_name=MW-3S	ca.gov/profile_report.asp?ci	md=MWEDFResults	&global_id=SL0606778991&ass

Map ID Direction				
Elevation			Database	EDR ID Number
C17 East 1/2 - 1 Mile Higher			CA WELLS	CAEDF0000115317
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	SL0606778991-MW-3D EDF Not Reported https://gamagroundwater.waterboa date=&global_id=SL06067789918 https://geotracker.waterboards.ca. igned_name=MW-3D	Well Type: Other Name: ards.ca.gov/gama/gamar assigned_name=MW-3I gov/profile_report.asp?c	MON MW-3 map/public/GamaDa D&store_num= md=MWEDFResults	ITORING 3D taDisplay.asp?dataset=EDF&samp s&global_id=SL0606778991&ass
18 South 1/2 - 1 Mile Higher			CA WELLS	CADDW0000010566
Well ID: Source: Other Name: Groundwater Quality Data: GeoTracker Data:	3400117-001 Department of Health Services MAIN WELL P-59 https://gamagroundwater.waterboa date=&global_id=&assigned_name Not Reported	Well Type: GAMA PFAS Testir ards.ca.gov/gama/gamar e=3400117-001&store_n	MUN ng: Not F nap/public/GamaDa num=	ICIPAL Reported taDisplay.asp?dataset=DHS&samp
D19 WNW 1/2 - 1 Mile Lower			CA WELLS	CAEDF0000121647
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	T0606791616-MW2 EDF Not Reported https://gamagroundwater.waterboa date=&global_id=T0606791616&a https://geotracker.waterboards.ca. gned_name=MW2	Well Type: Other Name: ards.ca.gov/gama/gamar issigned_name=MW2&si gov/profile_report.asp?c	MON MW2 nap/public/GamaDa tore_num= md=MWEDFResults	ITORING taDisplay.asp?dataset=EDF&samp s&global_id=T0606791616&assi
D20 WNW 1/2 - 1 Mile Lower			CA WELLS	CAEDF0000011933
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	T0606791616-MW1 EDF Not Reported https://gamagroundwater.waterboa date=&global_id=T0606791616&a https://geotracker.waterboards.ca. gned_name=MW1	Well Type: Other Name: ards.ca.gov/gama/gamar issigned_name=MW1&s gov/profile_report.asp?c	MON MW1 nap/public/GamaDa tore_num= md=MWEDFResults	ITORING taDisplay.asp?dataset=EDF&samp. s&global_id=T0606791616&assi

Map ID Direction Distance Elevation			Database	EDR ID Number
D21 WNW 1/2 - 1 Mile Lower			CA WELLS	CAEDF0000108457
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	T0606791616-MW3 EDF Not Reported https://gamagroundwater.water date=&global_id=T0606791616 https://geotracker.waterboards. gned_name=MW3	Well Type: Other Name: boards.ca.gov/gama/gamamap/ 5&assigned_name=MW3&store_ .ca.gov/profile_report.asp?cmd=	MON MW3 /public/GamaDa _num= :MWEDFResults	IITORING taDisplay.asp?dataset=EDF&samp s&global_id=T0606791616&assi
D22 WNW 1/2 - 1 Mile Lower			CA WELLS	CAEDF000009625
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	T0606791616-MW4 EDF Not Reported https://gamagroundwater.water date=&global_id=T0606791616 https://geotracker.waterboards. gned_name=MW4	Well Type: Other Name: boards.ca.gov/gama/gamamap/ &assigned_name=MW4&store_ .ca.gov/profile_report.asp?cmd=	MON MW4 /public/GamaDa _num= :MWEDFResults	IITORING taDisplay.asp?dataset=EDF&samp s&global_id=T0606791616&assi
E23 ENE 1/2 - 1 Mile Higher Organization ID:	USGS-CA		FED USGS	USGS40000189552
Organization Name: Monitor Location: Description: HUC: Drainage Area Units: Contrib Drainage Area Unts: Formation Type: Construction Date: Well Depth Units: Well Hole Depth Units:	USGS California Water Science 009N004E24Q001M NAWQA DATA ENTRY COM V 18020109 Not Reported Not Reported Sacramento Valley Aquifer 19971009 ft ft	e Center Type: /ER 9.30.99 DAWSON BJ Drainage Area: Contrib Drainage Area: Aquifer: Aquifer: Aquifer Type: Well Depth: Well Hole Depth:	Well Not F Not F Cent Unco 42.5 42.5	Reported Reported ral Valley aquifer system onfined single aquifer
Ground water levels,Number of Feet below surface: Note:	Measurements: 2 16.83 Not Reported	Level reading date: Feet to sea level:	2004 Not F	-05-26 Reported
Level reading date: Feet to sea level:	1998-08-05 Not Reported	Feet below surface: Note:	15.25 Not F	5 Reported

Map ID Direction Distance				
Elevation			Database	EDR ID Number
E24 ENE 1/2 - 1 Mile Higher			CA WELLS	CAUSGSN00013289
Well ID: Source: Other Name: Groundwater Quality Data: GeoTracker Data:	USGS-383659121292201 United States Geological Survey USGS-383659121292201 https://gamagroundwater.waterboard amp_date=&global_id=&assigned_na Not Reported	Well Type: GAMA PFAS Testing: ls.ca.gov/gama/gamamap ame=USGS-3836591212	UNK Not R v/public/GamaDat 92201&store_nun	eported aDisplay.asp?dataset=USGSNEW&s n=
F25 NW 1/2 - 1 Mile Lower		X	CA WELLS	CAEDF0000078072
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	T0606774789-MW3 EDF Not Reported https://gamagroundwater.waterboard date=&global_id=T0606774789&ass https://geotracker.waterboards.ca.go gned_name=MW3	Well Type: Other Name: Is.ca.gov/gama/gamamap igned_name=MW3&store v/profile_report.asp?cmds	MONI MW3 o/public/GamaDat num= =MWEDFResults	TORING aDisplay.asp?dataset=EDF&samp_ &global_id=T0606774789&assi
F26 NW 1/2 - 1 Mile Lower			CA WELLS	CAEDF0000118876
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	T0606774789-MW1 EDF Not Reported https://gamagroundwater.waterboard date=&global_id=T0606774789&ass https://geotracker.waterboards.ca.go gned_name=MW1	Well Type: Other Name: ls.ca.gov/gama/gamamap igned_name=MW1&store v/profile_report.asp?cmd=	MONI MW1 o/public/GamaDat num= =MWEDFResultsi	TORING aDisplay.asp?dataset=EDF&samp_ &global_id=T0606774789&assi
G27 North 1/2 - 1 Mile Higher			CA WELLS	CAUSGSN00015112
Well ID: Source: Other Name: Groundwater Quality Data: GeoTracker Data:	USGS-383727121301801 United States Geological Survey USGS-383727121301801 https://gamagroundwater.waterboard amp_date=&global_id=&assigned_n. Not Reported	Well Type: GAMA PFAS Testing: Is.ca.gov/gama/gamamap ame=USGS-3837271213	UNK Not R b/public/GamaDat 01801&store_nun	eported aDisplay.asp?dataset=USGSNEW&s n=
GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
F28 NW 1/2 - 1 Mile Lower			CA WELLS	CAEDF0000115478
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	T0606774789-MW4 EDF Not Reported https://gamagroundwater.waterb date=&global_id=T06067747898 https://geotracker.waterboards.c gned_name=MW4	Well Type: Other Name: poards.ca.gov/gama/gamamap, &assigned_name=MW4&store_ ra.gov/profile_report.asp?cmd=	MON MW4 /public/GamaDa _num= MWEDFResults	IITORING taDisplay.asp?dataset=EDF&samp_ s&global_id=T0606774789&assi
F29 NW 1/2 - 1 Mile Lower			CA WELLS	CAEDF0000046984
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data:	T0606774789-MW2 EDF Not Reported https://gamagroundwater.waterb date=&global_id=T06067747894	Well Type: Other Name: boards.ca.gov/gama/gamamap/ sassigned_name=MW2&store	MON MW2 /public/GamaDa _num=	IITORING taDisplay.asp?dataset=EDF&samp_
GeoTracker Data: G30 North 1/2 - 1 Mile	https://geotracker.waterboards.c gned_name=MW2	a.gov/profile_report.asp?cmd=	FED USGS	USGS40000189593
Lower Organization ID: Organization Name: Monitor Location: Description: HUC: Drainage Area Units: Contrib Drainage Area Unts: Formation Type: Construction Date: Well Depth Units: Well Hole Depth Units:	USGS-CA USGS California Water Science 009N004E23A001M NAWQA DATA ENTRY COM VI 18020109 Not Reported Not Reported Sacramento Valley Aquifer 19971001 ft ft	Center Type: ER 9.30.99 DAWSON BJ Drainage Area: Contrib Drainage Area: Aquifer: Aquifer Type: Well Depth: Well Hole Depth:	Well Not F Not F Centr Unco 36.5 36.5	Reported Reported ral Valley aquifer system infined single aquifer
Ground water levels,Number of Feet below surface: Note:	f Measurements: 3 11.10 Not Reported	Level reading date: Feet to sea level:	2004 Not F	-05-26 Reported
Level reading date: Feet to sea level:	1998-08-06 Not Reported	Feet below surface: Note:	11.21 Not F	l Reported
Level reading date: Feet to sea level:	Not Reported	Peet below surface: Note:	8 Not F	Reported

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance				
Elevation			Database	EDR ID Number
31 East 1/2 - 1 Mile Higher			FED USGS	USGS40000189510
Organization ID: Organization Name: Monitor Location: Description: Drainage Area: Contrib Drainage Area: Aquifer: Formation Type: Construction Date: Well Depth Units: Well Hole Depth Units: Well Hole Depth Units:	USGS-CA USGS California Water Science C 009N004E25A001M Not Reported Not Reported Central Valley aquifer system Not Reported 19560101 ft ft	enter Type: HUC: Drainage Area Units: Contrib Drainage Area U Aquifer Type: Well Depth: Well Hole Depth:	Well 1802 Not F 232 300	0111 Reported Reported

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

/est /2 - 1 Mile			OIL_GAS	CAOG13000008042
API #: Well Status: Operator Name:	0406720015 Plugged A. A. Hopkins, Jr., Operator	Well #: Well Type:	5 DH	
Lease Name:	Elkhorn	Field Name:	Any I	Field
Area Name: Confidential Well: SPUD Date:	Any Area N 02/29/1968	GIS Source: Directionally Drilled:	hud N	
		$\langle \rangle$		
	2-			
	$\langle \rangle$			

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION



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. Andt 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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FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) MAP



National Flood Hazard Layer FIRMette



Legend





U.S. Fish and Wildlife Service National Wetlands Inventory

NWI Map



December 21, 2020

Wetlands



Estuarine and Marine Deepwater

Estuarine and Marine Wetland

- Freshwater Forested/Shrub Wetland
 - **Freshwater Pond**

Freshwater Emergent Wetland

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

> Appendix D National Wetlands Inventory (NWI) This page was produced by the NWI mapper



User/Owner/Occupant/Key Site Manager Questionnaire

The City of Sacramento is conducting a Phase I Environmental Site Assessment according to American Society for Testing and Materials (ASTM) Standard Practice E1527-13. We request your assistance in conducting this Assessment by asking that you complete this questionnaire and return it as soon as possible.

These questions should be answered by someone or a group of people that are most likely to have knowledge about the subject of the questions – typically the owner, long time tenant, or a property manager. *Please do not leave any blank.* Answer in good faith to the best of your knowledge and if you're not sure how to answer the question, feel free to contact the environmental professional for clarification.

Property Name: Natomas Sports Club

Property Address or ID Number (as applicable): 2450 Natomas Park Dr.

General Property Description (location, use, level of development, topography, biota, etc.): Fully developed sports club closed as of November 6, 2020. Facilities include outdoor tennis and volleyball courts and a swimming pool.

Question	Yes	Not	No	If yes, please describe
		Sure		
1. Did a search of land title records				
(or judicial records where		X		
appropriate – see NOTE below)				
identify any environmental liens		K		
filed or recorded against the				
property under federal, tribal, state				
or local law?				
NOTE — Certain jurisdictions				
require that environmental liens be				
filed in judicial records rather than				
in land title records. In such cases				
judicial records must be searched				
for environmental liens.				
2. Did a search of recorded land				
title records (or judicial records		Х		
where appropriate, see NOTE				
below) identify any AULs, such as				
engineering controls, land use				
restrictions, or institutional				
controls that are in place at the				
property and/or have been filed or				
recorded against the property				

Question	Yes	Not Sure	No	If yes, please describe
under federal, tribal, state or local law?		Juic		
NOTE — Certain jurisdictions require that activity and use limitation (AULs) be filed in judicial records rather than in land title records. In such cases judicial records must be searched for AULs.				
3. Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?	x		7	Spare Time Sports Clubs is the general partner of Natomas Racquet Club Investors, L.P. and operated the sports club business at the property. I am the President of Spare Time Sports Clubs.
4. Does the purchase price paid for the property reasonably reflect the fair market value of the property? If you conclude that there is a difference, do you have any reason to believe that the lower purchase price is because contamination is known or believed to be present at the property?	X			
5. Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases of hazardous materials?	Х			

Question	Yes	Not Sure	No	If yes, please describe
6. Do you know the past uses on the property? If so, please generally describe the uses and how long have you have had knowledge of the property?	x			The sports club was constructed in 1990 and operated on the property through November 6, 2020. The property has been unoccupied since November 6, 2020. The sports club business included fitness, swimming, tennis and various other sports activities.
7. Do you know of specific chemicals that are present or once were present at the property?	x	2		Pool and Spa sanitation chemicals Janitorial products for cleaning of locker rooms
8. Do you know of spills or other chemical releases that have taken place at the property?			x	
9. Do you know of any environmental cleanups that have taken place at the property?			x	

Question	Yes	Not Sure	No	If yes, please describe
10. Based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of hazardous materials or petroleum product releases at the property?			x	
11. Are there any pits, ponds, or lagoons on the property that have been used in connection with waste disposal or waste treatment?			x	
12. Are there any areas of stained soil or pavement on the property?		2	X	
13. Are there any areas of stressed vegetation caused by something other than insufficient water on the property?			x	
14. On the property are there any depressions, mounds, or filled/graded areas that are associated with solid waste disposal?			x	

Question	Yes	Not Sure	No	If yes, please describe
15. Are there any liquid discharges into waterways on the property or injections into groundwater on the property?			x	
16. Are there any wells located on the property?		2	×	
17. Are there any septic systems or cesspools on the property?			x	
18. Do you have or know of the existence of any of the following records related to the property?a) Environmental site assessment reports?b) Environmental compliance audit reports?	х		x	Phase 1 Environmental Site Assessment from EMG dated 4/29/1998 provided to buyer as part of due diligence documentation

Question	Yes	Not	No	If yes, please describe
		Sure		
c) Environmental permits (for			Х	
example, solid waste disposal				
permits, hazardous waste disposal				
permit, wastewater permits,				
NPDES permits, underground				
injection permits)?				
d) Registrations for underground				
and above-ground storage tanks?			Х	
e) Registrations for underground				
injection system?				
f) Material safety data sheets?	Х			The sports club maintained MSDS sheets on the
g) Community right-to-know plan?			Х	property while operating
 h) Safety plans; preparedness and 				
prevention plans; spill prevention,	Х			The sports club maintained an Emergency
countermeasure, and control plans;				Procedures Manual on the property while operating
facility response plans, etc.?				
i) Reports regarding hydrogeologic				Seismic Risk Assessment from EMG dated 4/30/1998
conditions on the property or				provided to buyer as part of due diligence
surrounding area?				documentation
J) Notices or other correspondence				
from any government agency			X	
relating to past or current				
violations of environmental laws				
relating to environmental liens				
encumbering the property?				
k) Hazardous waste generator		K	x	
notices or reports?			~	Geotechnical Report dated 1/9/1989 from Anderson
I) Geotechnical studies?	x			Geotechnical Consulting provided to buyer as part of
m) Risk assessments?	x			due diligence documentation
n) Recorded Activity and Use	,			Seismic Risk Assessment noted above
Limitations (AULs)?		х		

Question	Yes	Not Sure	No	If yes, please describe
 19. Do you know of any pending, threatened, or past litigation or administrative proceedings relevant to hazardous substances on the property? 20. Do you know of any notices 		2	X	
from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances?			x	

Question	Yes	Not Sure	No	If yes, please describe
21. Do you have any reason to				
believe contamination is present at the property that was not covered by the above questions?			X	
Name: _Larry Gilzean			1	
Title (if applicable):President, Spare	Time	, Inc., e	iener	al Partner of Natomas Racquet Club Invesotrs, L.P
Association with Property (may check	more	than or	ne if a	pplicable):
User (party seeking to use the Ph	lase I I	Environ	ment	al Site Assessment)
_X Owner (owner of Property)				
_X Occupant (party occupying or u	<i>sing</i> tl	ne Prop	erty)	
Key Site Manager (person with g	ood kr	nowled	ge or	uses or physical characteristics of the Property)
Years associated with Property:	_0 Ye	ars		1 Year 5 YearsX 10+ Years
Sign Here:				Date:12/29/2020

If more than one person assisted in completing this form:

Name:			
-			

Title (if applicable): _____

Association with Property (may check more than one if applicable):

_____ User (party seeking to use the Phase I Environmental Site Assessment)

_____ Owner (owner of Property)

_____ Occupant (party occupying *or using* the Property)

_____ Key Site Manager (person with good knowledge or uses or physical characteristics of the Property)

Years associated with Property:	1 Year	5 Years	10+ Years	
Sign Here:			Date:	
	8			

Interviewee(s):		
Date:	Time:	
Name/Title:	Phone Number:	
Email Address:		
Type of Interview:On-site	Off-site/Telephone	Off-site/Letter or Email
Governmental Agency Description (as app	licable):	•
Agency Office Name:		
Agency Office Address:		
Agency Function/Jurisdiction:		
	7	
Interview Results (to the best knowledge of the In	erviewee(s)):	
Historical Knowledge about Property?	1 Year5 Years _	10+ Years
Historical Use of Property?Residen	ialIndustrial	Commercial
Agricul	uralRural	Other
Reason to believe REC present?	YesNo	Require Data
Comment(s):		
Signature(s):		
Charlane gross		
Signed (Interviewer) Title		Date

State/Local/Tribal Government Official Interview Form

Appendix D

Adjacent Property Interview Form

Date		Signed (Interviewer) Title
January 5, 2021	Sr. Archaeologist	Charlane Gross
		Signature(s):
		Comment(s):
Require Data	Yes <u>No</u>	Reason to believe REC present?
Other	turalRural	Agricul
	ntial Industrial	Historical Use of Property? Residen
s <u> </u>	1 Year <u>✓</u> 5 Years	Historical Knowledge about Property?
	aterviewee(s)):	Interview Results (to the best knowledge of the In
	7	Adjacent Property ID Number(s):
		Adjacent Property Use: Commercial
2450 Natomas Park Drive	2	Adjacent Property Address:
Natomas Sports Club		Adjacent Property Name/Location:
	able):	Adjacent Property Description (as application)
✓ Off-site/Letter or Email	Off-site/Telephone	Type of Interview:On-site
Park Dr., Sacramento, CA 95833	2205 Natomas F	Address:
916-619-2205	Phone Number:	Name: Scott Walsh
11:30 am	Time:	Date: Jan 5, 2021
		Interviewee(s):

Appendix D



Trenton Wilson Senior Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES



Education

B.S., Environmental Toxicology, Specialization, Analytical Chemistry University of California, Davis

Certification

CARB Lead Offset Verifier (#H2-19-165) CARB Lead GHG Verifier (#H-18-166)

Key Qualifications

- 19 years experience in the field of environmental compliance
- Extensive experience as lead intrructor for various types of technical training sessions, including environmental monitoring.
- Areas of expertise include energy, waste water, recycled water, air quality analysis, hydrology and water quality, geology and soils, traffic, and noise.

Mr. Wilson is an environmental toxicologist with over 19 years of experience in performing and managing environmental monitoring projects and providing technical oversight including identification and evaluation of the fate and transport of contaminants in support of environmental compliance projects. Areas of expertise include hazardous materials assessment and remediation, environmental chemistry and toxicology, contaminant identification and sample plan preparation, evaluation of analytical results and determination of compliance obligations, and oversight of analytical toxicology studies and preparation of associated compliance reports. Mr. Wilson also has experience developing and performing various types and levels of environmental monitoring projects including long-term, multi-faceted monitoring projects, performing technical monitoring studies, preparing technical reports, conducting impact analysis, and developing mitigation protocols. As staff Toxicologist, he works with other project managers, coordinates/consults with jurisdictional agencies (U.S Environmental Protection Agency, California Regional Water Quality Control Boards, Department of Toxic Substance Control, Office of Environmental Health Hazard Assessment, as well as numerous county, city, and special districts), and legal counsel to ensure environmental monitoring studies, data, and analyses are technically accurate and legally defensible. Mr. Wilson has also served as lead instructor for various types of technical training sessions including hazardous materials courses such as the mandated 40-hour Hazardous Wastes Operations for emergency response to hazardous waste incidents under 29 CFR 1910.120. Mr. Wilson is an Environmental Professional as defined under the recent amendment to Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

Representative Project Experience

- Lytton Rancheria 1.25-Acres Phase I ESA, Windsor, Sonoma County, CA.
- Lytton Rancheria 2.29-Acres Phase I ESA, Windsor, Sonoma County, CA.
- MJL Phase 1 Environmental Site Assessment, Sacramento, Sacramento County,
 CA.
- Shirland Tract Phase I Environmental Site Assessment, Auburn, Placer County, CA.
- 4848 Madison Avenue Phase I ESA, Sacramento County, CA
- 620 and 628 15th Street Phase I ESA, Sacramento County, CA
- Copper Whole-Effluent Toxicity Study, Placer County, CA. Determined the toxicological activity of copper within wastewater to assess accuracy of permitted discharge levels established by the Regional Water Quality Control Board.
- Instructor, 2000-Current. Courses included Hazardous Materials Chemistry and Toxicology for private companies; OSHA 40-hour Hazardous Waste Operations (Hazwoper)-Toxicology Section for private companies and government institutions; Clandestine Drug Lab Basic Safety for the Drug Enforcement Agency in Quantico, Virginia.

Clandestine Drug Laboratory Property Contamination Assessments, Sacramento, Amador, Calaveras, Placer, Yolo, Yuba, and Merced counties, CA, 2000-2002.

Charlane Gross, MA, RPA

Senior Archaeologist



ANALYTICAL ENVIRONMENTAL SERVICES

Ms. Gross has over 30 years of management, field, and reserarch experience in the field of archaeology. Ms. Gross' range of experience has been acquired by working as both a field technician and field director in 17 states and U.S. territories, including both coasts, the central Plains, and the South Pacific. This exposure has resulted in the widest possible range of experience in all forms of archaeological survey, from shovel testing to pedestrian survey, with the accompanying ability to look at landscape forms and assess the potential for prehistoric cultural sites. Ms. Gross has considerable experience in the development and production of cultural resources recordation and management documents including survey, testing, and data recovery reports, National Register of Historic Places evaluations, and cultural resources chapters for various CEQA and NEPA documents. Ms. Gross is also highly skilled in agency, client, and Native American community coordination and consultation.

Education

<u>M.A.,</u> Anthropology, San Jose State University

<u>B.A..</u> Anthropology, University of California, Berkeley

Certification

Register of Professional Archaeologists (RPA)

Key Qualifications

- 30 years of management, field, and research experience on a wide variety of projects
- Well-versed in all aspects of historicera and prehistoric resource investigations and the requirements of CEQA, NEPA, Section 106, and Section 110 of the National Historic Preservation Act.
- Extensive largescale project management experience

Ms. Gross has been a contributing analyst and author of numerous environmental impact statements, environmental assessments, Phase I Environmental Site Assessments, and environmental overviews required for NEPA/CEQA compliance, including the following:

- Chickasaw Nation Development Project Phase I, OK
- Menominee Phase I, MI
- Trinidad Rancheria Phase I, Trinidad, CA

Representative Project Experience

- 2300 Fair Oaks Drive Phase I, Sacramento County, CA
- Casa Grande Cultural Study and Phase I, Sonoma County, CA
- Vanden Meadows Annexation, Specific Plan and Development Project EIR, City of Vacaville, CA
- Vanden Meadows Annexation, Specific Plan and Development Project EIR, City of Vacaville
- Vacaville Well 8 Cultural Study, Solano County, CA
- Vanden Meadows Annexation, Specific Plan and Development Project EIR, City of Vacaville, Solano County, CA
- Copart Automotive Salvage Yard IS, Solano County, CA
- Lodi Pump and Irrigation Cultural Study, Solano County, CA
- Foxboro Knoll EA, Solano County, CA
- Scott's Valley Technical Studies, Solano County, CA
- Zocchi EA, Solano County, CA
- Lodi Pump and Irrigation Cultural Study, Solano County, CA
- Water District, Sacramento County, CA
- Greenback Lane Cultural Study, Sacramento County, CA
- La Vista Water Tank Project Cultural Study, Sacramento County, CA
- Liberty Towers Church Cultural Study, Sacramento County, CA
- Sears Ditch, Leisure Lane, Jibboom Street Projects Cultural Resources studies, City of Sacramento, CA
- Mutual Housing Cultural Study, Sacramento County, CA

•

- Kent Farm CEQA, Yolo County, CA
- Lopez Farm CEQA, Yolo County, CA
- Upper Swanston Ranch/Yolo Bypass Medicinal Cannabis Farm IS, Yolo County, CA
- Yocha Dehe TEIR, Yolo County
- Wilton Rancheria EIS, Galt, CA
- Lytton San Pablo Parking Lot IS, Contra Costa County, CA



Environmental Noise Assessment

Natomas Park Drive Apartments

City of Sacramento, California

July 1, 2021

Project #210317

Prepared for:



Raney Planning and Management 1501 Sports Drive, Suite A Sacramento, CA 95834

Prepared by:

Saxelby Acoustics LLC



Luke Saxelby, INCE Bd. Cert. Principal Consultant Board Certified, Institute of Noise Control Engineering (INCE)

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> > Annondix E



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INTRODUCTION

The Natomas Park Drive Apartments residential project is located at 2450 Natomas Park Drive in the City of Sacramento, California. The property is currently occupied by a recreational facility including tennis courts, pools, and a gym. The project consists of the demolition of the existing facilities and the construction of 10 multi-family residential buildings totaling 190 new units. The surrounding land uses include multi-family residential uses to the east and south of the project site as well as commercial office buildings to the west. The northern project boundary is adjacent to West El Camino Avenue.

Figure 1 shows the project site plan. Figure 2 shows an aerial photo of the project site.

ENVIRONMENTAL SETTING

BACKGROUND INFORMATION ON NOISE

Fundamentals of Acoustics

Acoustics is the science of sound. Sound may be thought of as mechanical energy of a vibrating object transmitted by pressure waves through a medium to human (or animal) ears. If the pressure variations occur frequently enough (at least 20 times per second), then they can be heard and are called sound. The number of pressure variations per second is called the frequency of sound, and is expressed as cycles per second or Hertz (Hz).

Noise is a subjective reaction to different types of sounds. Noise is typically defined as (airborne) sound that is loud, unpleasant, unexpected or undesired, and may therefore be classified as a more specific group of sounds. Perceptions of sound and noise are highly subjective from person to person.

Measuring sound directly in terms of pressure would require a very large and awkward range of numbers. To avoid this, the decibel scale was devised. The decibel scale uses the hearing threshold (20 micropascals), as a point of reference, defined as 0 dB. Other sound pressures are then compared to this reference pressure, and the logarithm is taken to keep the numbers in a practical range. The decibel scale allows a million-fold increase in pressure to be expressed as 120 dB, and changes in levels (dB) correspond closely to human perception of relative loudness.

The perceived loudness of sounds is dependent upon many factors, including sound pressure level and frequency content. However, within the usual range of environmental noise levels, perception of loudness is relatively predictable, and can be approximated by A-weighted sound levels. There is a strong correlation between A-weighted sound levels (expressed as dBA) and the way the human ear perceives sound. For this reason, the A-weighted sound level has become the standard tool of environmental noise assessment.







The decibel scale is logarithmic, not linear. In other words, two sound levels 10-dB apart differ in acoustic energy by a factor of 10. When the standard logarithmic decibel is A-weighted, an increase of 10-dBA is generally perceived as a doubling in loudness. For example, a 70-dBA sound is half as loud as an 80-dBA sound, and twice as loud as a 60 dBA sound.

Community noise is commonly described in terms of the ambient noise level, which is defined as the allencompassing noise level associated with a given environment. A common statistical tool is the average, or equivalent, sound level (L_{eq}), which corresponds to a steady-state A weighted sound level containing the same total energy as a time varying signal over a given time period (usually one hour). The L_{eq} is the foundation of the composite noise descriptor, L_{dn} , and shows very good correlation with community response to noise.

The day/night average level (DNL or L_{dn}) is based upon the average noise level over a 24-hour day, with a +10-decibel weighing applied to noise occurring during nighttime (10:00 p.m. to 7:00 a.m.) hours. The nighttime penalty is based upon the assumption that people react to nighttime noise exposures as though they were twice as loud as daytime exposures. Because L_{dn} represents a 24-hour average, it tends to disguise short-term variations in the noise environment.

Table 1 lists several examples of the noise levels associated with common situations. **Appendix A** provides a summary of acoustical terms used in this report.

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
	110	Rock Band
Jet Fly-over <mark>at 300 m (</mark> 1,000 ft.)	100	
Gas Lawn <mark>Mower at</mark> 1 m (3 ft.)	90	
Diesel Tr <mark>uck at 15 </mark> m (50 ft.), at <mark>80 km/hr.</mark> (50 mph)	80	Food Blender at 1 m (3 ft.) Garbage Disposal at 1 m (3 ft.)
Noisy Ur <mark>ban Area,</mark> Daytime Gas Lawn Mowe <mark>r, 30 m (1</mark> 00 ft.)	70	Vacuum Cleaner at 3 m (10 ft.)
Co <mark>mmercial</mark> Area Heavy Traffic at 90 <mark>m (300</mark> ft.)	60	Normal Speech at 1 m (3 ft.)
Quiet Urban Daytime	50	Large Business Office Dishwasher in Next Room
Quiet Urban Nighttime	40	Theater, Large Conference Room (Background)
Quiet Suburban Nighttime	30	Library
Quiet Rural Nighttime	20	Bedroom at Night, Concert Hall (Background)
	10	Broadcast/Recording Studio
Lowest Threshold of Human Hearing	0	Lowest Threshold of Human Hearing

TABLE 1: TYPICAL NOISE LEVELS

Source: Caltrans, Technical Noise Supplement, Traffic Noise Analysis Protocol. September, 2013.



EFFECTS OF NOISE ON PEOPLE

The effects of noise on people can be placed in three categories:

- Subjective effects of annoyance, nuisance, and dissatisfaction
- Interference with activities such as speech, sleep, and learning
- Physiological effects such as hearing loss or sudden startling

Environmental noise typically produces effects in the first two categories. Workers in industrial plants can experience noise in the last category. There is no completely satisfactory way to measure the subjective effects of noise or the corresponding reactions of annoyance and dissatisfaction. A wide variation in individual thresholds of annoyance exists and different tolerances to noise tend to develop based on an individual's past experiences with noise.

Thus, an important way of predicting a human reaction to a new noise environment is the way it compares to the existing environment to which one has adapted: the so-called ambient noise level. In general, the more a new noise exceeds the previously existing ambient noise level, the less acceptable the new noise will be judged by those hearing it.

With regard to increases in A-weighted noise level, the following relationships occur:

- Except in carefully controlled laboratory experiments, a change of 1-dBA cannot be perceived;
- Outside of the laboratory, a 3-dBA change is considered a just-perceivable difference;
- A change in level of at least 5-dBA is required before any noticeable change in human response would be expected; and
- A 10-dBA change is subjectively heard as approximately a doubling in loudness, and can cause an adverse response.

Stationary point sources of noise – including stationary mobile sources such as idling vehicles – attenuate (lessen) at a rate of approximately 6-dB per doubling of distance from the source, depending on environmental conditions (i.e. atmospheric conditions and either vegetative or manufactured noise barriers, etc.). Widely distributed noises, such as a large industrial facility spread over many acres, or a street with moving vehicles, would typically attenuate at a lower rate.

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EXISTING NOISE AND VIBRATION ENVIRONMENTS

EXISTING NOISE RECEPTORS

Some land uses are considered more sensitive to noise than others. Land uses often associated with sensitive receptors generally include residences, schools, libraries, hospitals, and passive recreational areas. Sensitive noise receptors may also include threatened or endangered noise sensitive biological species, although many jurisdictions have not adopted noise standards for wildlife areas. Noise sensitive land uses are typically given special attention in order to achieve protection from excessive noise.

Sensitivity is a function of noise exposure (in terms of both exposure duration and insulation from noise) and the types of activities involved. In the vicinity of the project site, sensitive land uses include existing and multi-family residential uses located to the south and east.

EXISTING GENERAL AMBIENT NOISE LEVELS

The existing noise environment in the project area is primarily defined by traffic on West El Camino Avenue and Natomas Park Drive.

To quantify the existing ambient noise environment in the project vicinity, Saxelby Acoustics conducted continuous (24-hr.) noise level measurements at three locations on the project site. Noise measurement locations are shown on **Figure 2**. A summary of the noise level measurement survey results is provided in **Table 2**. Appendix B contains the complete results of the noise monitoring.

The sound level meters were programmed to record the maximum, median, and average noise levels at each site during the survey. The maximum value, denoted L_{max} , represents the highest noise level measured. The average value, denoted L_{eq} , represents the energy average of all the noise received by the sound level meter microphone during the monitoring period. The median value, denoted L_{50} , represents the sound level exceeded 50 percent of the time during the monitoring period.

Larson Davis Laboratories (LDL) model 820 and 812 precision integrating sound level meters were used for the ambient noise level measurement survey. The meters were calibrated before and after use with a CAL200 acoustical calibrator to ensure the accuracy of the measurements. The equipment used meets all pertinent specifications of the American National Standards Institute for Type 1 sound level meters (ANSI \$1.4).



			Average Measured Hourly Noise Levels, dBA					
			Daytime (7:00 am - 10:00 pm)		Nighttime (10:00 pm – 7:00 am)			
Site	Date	CNEL/Ldn	Leq	L50	L _{max}	L _{eq}	L50	L _{max}
LT-1	4/29/2021	62/61	58	53	71	54	53	65
LT-2	4/29/2021	60/60	54	52	67	54	53	63
LT-3	4/29/2021	64/63	60	57	78	57	55	69
Source: Saxelby Acoustics – 2021								

TABLE 2: SUMMARY OF EXISTING BACKGROUND NOISE MEASUREMENT DATA

EVALUATION OF TRANSPORTATION NOISE SOURCES ON THE PROJECT SITE

ON-SITE TRANSPORTATION NOISE PREDICTION METHODOLOGY

Saxelby Acoustics used the SoundPLAN noise model to calculate traffic noise levels at the proposed residential uses due to traffic on West El Camino Avenue and Natomas Park Drive. The model was calibrated to existing conditions. Future (2042) increases in noise were applied based upon an assumed annual 1% increase in traffic volumes. The proposed project buildings and surrounding structures were input into the SoundPLAN model to determine the traffic noise exposure on the project site. The results of this analysis are shown on **Figure 3**.




FUTURE TRANSPORTATION NOISE ENVIRONMENT AT OFF-SITE RECEPTORS

OFF-SITE TRAFFIC NOISE IMPACT ASSESSMENT METHODOLOGY

To assess noise impacts due to project-related traffic increases on the local roadway network, traffic noise levels are predicted at sensitive receptors for project and no-project conditions.

Existing noise levels due to traffic are calculated using the Federal Highway Administration Highway Traffic Noise Prediction Model (FHWA RD-77-108). The model is based upon the Calveno reference noise factors for automobiles, medium trucks and heavy trucks, with consideration given to vehicle volume, speed, roadway configuration, distance to the receiver, and the acoustical characteristics of the site.

The FHWA model was developed to predict hourly L_{eq} values for free-flowing traffic conditions. To predict traffic noise levels in terms of L_{dn} , it is necessary to adjust the input volume to account for the day/night distribution of traffic.

Existing traffic volumes were obtained from the City of Sacramento published traffic volumes. Project trip generation volumes were provided by the project traffic engineer. Truck usage and vehicle speeds on the local area roadways were estimated from field observations. The predicted increases in traffic noise levels on the local roadway network for Existing and Existing Plus Project conditions which would result from the project are provided in terms of L_{dn}.

Table 3 summarizes the modeled traffic noise levels at the nearest sensitive receptors along each roadway segment in the Project area. **Appendix C** provides the complete inputs and results of the FHWA traffic modeling.

				Predicted External Closes	erior Noise Lev t Sensitive Rec	el (dBA L _{dn}) at eptors
Roadway	Segn	ient		Existing No Project	Existing + Project	Change
Natomas Park Dr.	W. El Camino / Hw	Ave to Garc /y.	den	61.5	62.1	0.6
W. El Camino Ave.	15 to Tru	ixel Rd.		64.8	65.0	0.2

TABLE 3: PREDICTED TRAFFIC NOISE Level and PROJECT-Related Traffic NOISE Level Increases <th



CONSTRUCTION NOISE ENVIRONMENT

The Federal Highway Administration's (FHWA) Roadway Construction Noise Model (RCNM) was used to predict noise levels for standard construction equipment used for roadway improvement projects. The assessment of potential significant noise effects due to construction is based on the standards and procedures described in the Federal Transit Authority (FTA) guidance manual and FHWA's RCNM.

The RCNM is a Windows-based noise prediction model that enables the prediction of construction noise levels for a variety of construction equipment based on a compilation of empirical data and the application of acoustical propagation formulas. It enables the calculation of construction noise levels in more detail than the manual methods, which eliminates the need to collect extensive amounts of project-specific input data. RCNM allows for the modeling of multiple pieces of construction equipment working either independently or simultaneously, the character of noise emission, and the usage factors for each piece of equipment.

Construction noise varies depending on the construction process, type of equipment involved, location of the construction site with respect to sensitive receptors, the schedule proposed to carry out each task (e.g., hours and days of the week), and the duration of the construction work.

Noise sources in the RCNM database include actual noise levels and equipment usage percentages. This source data was used in this construction noise analysis. **Table 4** shows predicted construction noise levels for each of the project construction phases.

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Equipment	Quantity	Usage (%)	Maximum, L _{max} (dBA at 50 feet)	Hourly Average, L _{eq} (dBA at 50 feet)
		Demolition		
Concrete Saw	1	20	90	83
Excavator	3	40	81	82
Dozer	2	40	82	81
			Total:	87
		Site Preparation		
Dozer	3	40	82	83
Tractor/Loader/Backhoe	4	40	84	86
			Total:	88
		Grading		
Grader	2	40	85	84
Dozer	1	40	82	78
Scraper	1	40	84	80
Tractor/Loader/Backhoe	2	40	84	83
			Total:	88
	Bu	ilding Construction	-	1
Crane	1	16	81	73
Forklift	3	40	83	84
Generator	1	50	81	78
Tractor/Loader/Backhoe	3	40	84	85
Welder/Torch	1	40	74	70
			Total:	88
		Paving	-	1
Paver	2	50	77	77
Paving Equipment	2	50	77	77
Rollers	2	20	80	76
			Total:	81
	Ar	chitectural Coating		I
Air Compressor	1	40	79	75
			Total:	75

TABLE 4: CONSTRUCTION EQUIPMENT NOISE LEVELS FOR PRIMARY CONSTRUCTION PHASES

Source: FHWA, Roadway Construction Noise Model (RCNM), January 2006.

Based upon the **Table 4** data, site preparation and grading are predicted to be the loudest phase of construction with an average noise exposure of 88 dBA at 50 feet. Saxelby Acoustics used the SoundPLAN noise model to calculate noise levels at the nearest sensitive receptors. The results of this analysis are shown graphically on **Figure 4**.





CONSTRUCTION VIBRATION ENVIRONMENT

The primary vibration-generating activities would be grading, utilities placement, and parking lot construction. **Table 5** shows the typical vibration levels produced by construction equipment.

Type of Equipment	Peak Particle Velocity at 25 feet (inches/second)	Peak Particle Velocity at 50 feet (inches/second)	Peak Particle Velocity at 100 feet (inches/second)
Large Bulldozer	0.089	0.031	0.011
Loaded Trucks	0.076	0.027	0.010
Small Bulldozer	0.003	0.001	0.000
Auger/drill Rigs	0.089	0.031	0.011
Jackhammer	0.035	0.012	0.004
Vibratory Hammer	0.070	0.025	0.009
Vibratory Compactor/roller	0.210 (Less th <mark>an 0.2</mark> 0 at 26 feet)	0.074	0.026

TABLE 5: VIBRATION LEVELS FOR VARIOUS CONSTRUCTION EQUIPMENT

Source: Transit Noise and Vibration Impact Assessment Guidelines. Federal Transit Administration. May 2006.

REGULATORY CONTEXT

FEDERAL

There are no federal regulations related to noise that apply to the Proposed Project.

STATE

The State Building Code, Title 24, Part 2 of the State of California Code of Regulations, establishes uniform minimum noise insulation performance standards to protect persons within new buildings which house people, including hotels, motels, dormitories, apartment houses, and dwellings other than single-family dwellings. Title 24 mandates that interior noise levels attributable to exterior sources shall not exceed 45 dB L_{dn} or CNEL in any habitable room. Title 24 also mandates that for structures containing noise-sensitive uses to be located where the L_{dn} or CNEL exceeds 60 dB, an acoustical analysis must be prepared to identify mechanisms for limiting exterior noise to the prescribed allowable interior levels. If the interior allowable noise levels are met by requiring that windows be kept closed, the design for the structure must also specify a ventilation or air conditioning system to provide a habitable interior environment.

LOCAL

City of Sacramento General Plan

The Sacramento General Plan goals and policies relating to noise and vibration that are applicable to the proposed project are presented in **Table 6** and **Table 7**.

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Land Use Category	Highest Level of Noise Exposure That is Regarded as "Normally Acceptable" ^a (L _{dn} or CNEL)
Residential – Low Density Single Family, Duplex, Mobile Homes	60 dBA ^b
Residential – Multi-family ^c	65 dBA
Urban Residential Infill ^d and Mixed-Use Projects ^{e,f}	70 dBA
Transient Lodging – Motels, Hotels	65 dBA
Schools, Libraries, Churches, Hospitals, Nursing Homes	70 dBA
Auditoriums, Concert Halls, Amphitheaters	Mitigation based on site-specific study
Sports Arenas, Outdoor Spectator Sports	Mitigation based on site-specific study
Playgrounds, Neighborhood Parks	70 dBA
Golf Courses, Riding Stables, Water Recreation, Cemeteries	75 dBA
Office Buildings – Business, Commercial and Professional	70 dBA
Industrial, Manufacturing, Utilities, Agriculture	75 dBA

TABLE 6: STANDARDS FOR EXTERIOR NOISE EXPOSURE

Notes:

a. As defined in the Guidelines, "Normally Acceptable" means that the "specified land use is satisfactory, based upon the assumption that any building involved is of normal conventional construction, without any special noise insulation requirements."

b. Applies to the primary open space area of a detached single-family home, duplex, or mobile home, which is typically the backyard or fenced side yard, as measured from the center of the primary open space area (not the property line). This standard does not apply to the secondary open space areas, such as front yards, balconies, stoops, and porches.

c. Applies to the primary open space areas of townhomes and multi-family apartments or condominiums (privates year yards for townhomes; common courtyards, roof gardens, or gathering spaces for multi-family developments). These standards shall not apply to balconies or small attached patios in multistoried multi-family structures.

d. With land use designations of Central Business District, Urban Neighborhood (Low, Medium, or High), Urban Center (Low or High), Urban Corridor (low or High).

- e. All mixed-use projects located anywhere in the City of Sacramento.
- f. See notes d and f above for definition of primary open space area for single-family and multi-family developments.

Source: City of Sacramento. Sacramento 2035 General Plan. Table EC 1. Adopted March 2013.



TABLE 7: STANDARDS FOR INTERIOR NOISE LEVELS

Use	Noise Level (dBA)
Residences, Transient Lodging, Hospitals, Nursing Homes, Other Uses where People Sleep	45
Office Buildings and Similar Uses	45 (peak hour)

Source: City of Sacramento. Sacramento 2035 General Plan. EC 3.1.3. Adopted March 2013.

City of Sacramento Municipal Code

The City of Sacramento Municipal Code, Section 8.68.060 establishes and allowable exterior noise level limit of 55 dBA L_{50} and 75 dBA L_{max} during daytime (7:00 a.m. to 10:00 p.m.) hours and 50 dBA L_{50} and 70 dBA L_{max} during nighttime (10:00 p.m. to 7:00 a.m.) for sources of noise which occur for more than 30 minutes per hour (L_{50}).

If the existing ambient noise level exceeds the 50/55 dBA L_{50} standard the allowable limit is increased in five dBA increments to encompass the ambient noise level. If the existing ambient noise level exceeds the 70/75 dBA L_{max} noise standard, the limit becomes the measured L_{max} existing ambient noise level. For example, if measured existing ambient daytime noise levels are 57 dBA L_{50} and 77 dBA L_{max} , the noise ordinance limits would be 60 dBA L_{50} and 77 dBA L_{max} .

The City of Sacramento Municipal Code standards are summarized in **Table 8** below.

Noise Level Descriptor	Outdoor Activity Areas Daytime (7 a.m. to 10 p.m.)	Outdoor Activity Areas Nighttime (10 p.m. to 7 a.m.)
Hourly equivalent sound le <mark>vel (L₅₀),</mark> dB	55	50
Maximum sound level (L _{max}), dB	75	70

TABLE 8: STATIONARY NOISE SOURCE NOISE STANDARDS

Source: City of Sacramento Municipal Code



CRITERIA FOR ACCEPTABLE VIBRATION

Vibration is like noise in that it involves a source, a transmission path, and a receiver. While vibration is related to noise, it differs in that in that noise is generally considered to be pressure waves transmitted through air, whereas vibration usually consists of the excitation of a structure or surface. As with noise, vibration consists of an amplitude and frequency. A person's perception to the vibration will depend on their individual sensitivity to vibration, as well as the amplitude and frequency of the source and the response of the system which is vibrating.

Vibration can be measured in terms of acceleration, velocity, or displacement. A common practice is to monitor vibration measures in terms of peak particle velocities in inches per second. Standards pertaining to perception as well as damage to structures have been developed for vibration levels defined in terms of peak particle velocities.

Human and structural response to different vibration levels is influenced by a number of factors, including ground type, distance between source and receptor, duration, and the number of perceived vibration events. **Table 9**, which was developed by Caltrans, shows the vibration levels which would normally be required to result in damage to structures. The vibration levels are presented in terms of peak particle velocity in inches per second.

Table 9 indicates that the threshold for architectural damage to structures is 0.20 in/sec p.p.v. The general threshold at which human annoyance could occur is noted as 0.10 in/sec p.p.v. for continuous vibrations and 0.20 in/sec p.p.v. for intermittent vibrations. For construction projects which generally include intermittent vibrations, a threshold of 0.20 in/sec p.p.v. is considered to be a reasonable threshold to protect against architectural damage and annoyance to people.

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Peak Particl	e Velocity	Uumon Departion	Effect on Ruildings
mm/second	in/second	Human Reaction	Effect on Buildings
0.15-0.30	0.006-0.019	Threshold of perception; possibility of intrusion	Vibrations unlikely to cause damage of any type
2.0	0.08	Vibrations readily perceptible	Recommended upper level of the vibration to which ruins and ancient monuments should be subjected
2.5	0.10	Level at which continuous vibrations begin to annoy people	Virtually no risk of "architectural" damage to normal buildings
5.0	0.20	Vibrations annoying to people in buildings (this agrees with the levels established for people standing on bridges and subjected to relative short periods of vibrations)	Threshold at which there is a risk of "architectural" damage to normal dwelling - houses with plastered walls and ceilings. Special types of finish such as lining of walls, flexible ceiling treatment, etc., would minimize "architectural" damage
10-15	0.4-0.6	Vibrations considered unpleasant by people subjected to continuous vibrations and unacceptable to some people walking on bridges	Vibrations at a greater level than normally expected from traffic, but would cause "architectural" damage and possibly minor structural damage

TABLE 9: EFFECTS OF VIBRATION ON PEOPLE AND BUILDINGS

Source: *Transportation Related Earthborne Vibrations*. Caltrans. TAV-02-01-R9601. February 20, 2002.

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IMPACTS AND MITIGATION MEASURES

THRESHOLDS OF SIGNIFICANCE

Appendix G of the CEQA Guidelines states that a project would normally be considered to result in significant noise impacts if noise levels conflict with adopted environmental standards or plans or if noise generated by the project would substantially increase existing noise levels at sensitive receivers on a permanent or temporary basis. Significance criteria for noise impacts are drawn from CEQA Guidelines Appendix G (Items XI [a-c]).

Would the 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 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 proposed project is not located within two miles of a public or private airport, therefore item "c" is not discussed any further in this study.

The City of Sacramento General Plan Noise Element does not establish any specific criteria for evaluating noise level increases. Therefore, the following increase criteria are recommended.

Noise Level Increase Criter<mark>ia for Lo</mark>ng-Term Project-Related Noise Level Increases

The California Environmental Quality Act (CEQA) guidelines define a significant impact of a project if it "increases substantially the ambient noise levels for adjoining areas." Generally, a project may have a significant effect on the environment if it will substantially increase the ambient noise levels for adjoining areas or expose people to severe noise levels. In practice, more specific professional standards have been developed. These standards state that a noise impact may be considered significant if it would generate noise that would conflict with local project criteria or ordinances, or substantially increase noise levels at noise sensitive land uses. The potential increase in traffic noise from the project is a factor in determining significance. Research into the human perception of changes in sound level indicates the following:

- A 3-dB change is barely perceptible,
- A 5-dB change is clearly perceptible, and
- A 10-dB change is perceived as being twice or half as loud.

A limitation of using a single noise level increase value to evaluate noise impacts is that it fails to account for pre-project-noise conditions. **Table 10** is based upon recommendations made by the Federal Interagency Committee on Noise (FICON) to provide guidance in the assessment of changes in ambient

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noise levels resulting from aircraft operations. The recommendations are based upon studies that relate aircraft noise levels to the percentage of persons highly annoyed by the noise. Although the FICON recommendations were specifically developed to assess aircraft noise impacts, it has been accepted that they are applicable to all sources of noise described in terms of cumulative noise exposure metrics such as the L_{dn} .

Ambient Noise Level Without Project, Ldn	Increase Required for Significant Impact
<60 dB	+5.0 dB or more
60-65 dB	+3.0 dB or more
>65 dB	+1.5 dB or more

TABLE 10: SIGNIFICANCE OF CHANGES IN NOISE EXPOSURE

Source: Federal Interagency Committee on Noise (FICON)

Based on the **Table 10** data, an increase in the traffic noise level of 5 dB or more would be significant where the pre-project noise levels are less than 60 dB Ldn, or 3 dB or more where existing noise levels are between 60 to 65 dB Ldn. Extending this concept to higher noise levels, an increase in the traffic noise level of 1.5 dB or more may be significant where the pre-project traffic noise level exceeds 65 dB Ldn. The rationale for the **Table 10** criteria is that, as ambient noise levels increase, a smaller increase in noise resulting from a project is sufficient to cause annoyance.

PROJECT-SPECIFIC IMPACTS AND MITIGATION MEASURES

IMPACT 1: Would the project generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Traffic Noise at Off-Site Receptors

The FICON guidelines specify criteria to determine the significance of traffic noise impacts. Where existing traffic noise levels are greater than 65 dB L_{dn} , at the outdoor activity areas of noise-sensitive uses, a +1.5 dB L_{dn} increase in roadway noise levels will be considered significant. The maximum increase is traffic noise at the nearest sensitive receptor is predicted to be 0.6 dBA.

Therefore, impacts resulting from increased traffic noise would be considered *less-than-significant*.

Operational Noise at Off-Site Receptors

The proposed project would include typical residential noise which would be compatible with the adjacent existing residential uses.

Therefore, impacts resulting from project-generated noise would be considered *less-than-significant*.

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Construction Noise

During the construction phases of the project, noise from construction activities would add to the noise environment in the immediate project vicinity. Based upon the **Figure 4** data, the proposed project is predicted to generate construction noise levels ranging between 65-74 dBA L_{eq} at the nearest noise-sensitive receptors.

Noise would also be generated during the construction phase by increased truck traffic on area roadways. A project-generated noise source would be truck traffic associated with transport of heavy materials and equipment to and from the construction site. This noise increase would be of short duration and would likely occur primarily during daytime hours.

The City of Sacramento's Noise Ordinance of the Municipal Code exempts construction activities from the noise standards, provided that they take place between the hours of 7:00 AM and 6:00 PM Monday through Saturday and 9:00 AM and 6:00 PM Sundays and holidays. Although the construction activities could result in infrequent periods of high noise, this noise will not be sustained and will only occur only during the City's permitted construction noise hours. However, construction of the project would result in a short-term **potentially significant** impact.

Mitigation Measure(s)

Implementation of the following mitigation measures would reduce the above impact to a *less-than-significant* level.

- 1(a) Prior to issuance of a grading permit, the project applicant shall prepare a construction noise management plan that identifies measures to be taken to minimize construction noise on surrounding sensitive land uses and include specific noise management measures to be included within the project plans and specifications, subject to review and approval by the City Planning Division. The project applicant shall demonstrate, to the satisfaction of the City that the project complies with the following:
 - Construction activities shall only take place between the hours of 7:00 AM and 6:00 PM Monday through Saturday and 9:00 AM and 6:00 PM Sundays and holidays.
 - All heavy construction equipment used on the proposed project shall be maintained in good operating condition, with all internal combustion, engine-driven equipment fitted with intake and exhaust mufflers that are in good condition.
 - All mobile or fixed noise producing equipment used on the proposed project that is regulated for noise output by a local, state, or federal agency shall comply with such regulations while in the source of project activity.
 - Where feasible, electrically-powered equipment shall be used instead of pneumatic or internal combustion powered equipment.
 - All stationary noise-generating equipment shall be located as far away as possible from neighboring property lines.
 - Signs prohibiting unnecessary idling of internal combustion engines shall be posted.
 - A truck route haul plan shall be created to avoid residential areas.



- The use of noise-producing signals, including horns, whistles, alarms and bells shall be for safety warning purposes only.
- A noise complaint coordinator shall be retained amongst the construction crew to be responsible for responding to any local complaints about construction noise. When a complaint is received, the coordinator shall notify the City within 24 hours of the complaint and determine the cause of the noise complaint and shall implement reasonable measures to resolve the compliant, as deemed acceptable by the City.

Exterior Transportation Noise

Compliance with City standards on new noise-sensitive receptors is not a CEQA consideration. However, this information is provided here so that a determination can be made regarding the ability of the proposed project to meet the requirements of the City of Sacramento for exterior and interior noise levels at new sensitive uses proposed under the project.

As shown on **Figure 3**, the pool area and playground are predicted to be exposed to exterior transportation noise levels up to approximately 56 dBA during daytime (7:00 a.m. to 10:00 p.m.) hours. This would comply with the 65 dBA limit for outdoor activity areas in multi-family residential uses established by the City of Sacramento General Plan (**Table 6**) with no additional noise control measures.

Interior Transportation Noise

Based upon **Figure 3**, the proposed project would be exposed to exterior noise levels of up to 68 dBA L_{dn} at the ground floor building facades closest to West El Camino Avenue. Second floor locations would be exposed to noise levels up to 69 dBA L_{dn} .

Modern building construction methods typically yield an exterior-to-interior noise level reduction of 25 dBA. Therefore, where exterior noise levels are 70 dBA L_{dn} , or less, no additional interior noise control measures are typically required. For this project, exterior noise levels are predicted to be up to 69 dBA L_{dn} , resulting in an interior noise level of 44 dBA L_{dn} based on typical building construction. This would comply with the City's 45 dBA L_{dn} interior noise level standard.

Therefore, no additional noise control measures would be required.



IMPACT 2: WOULD THE PROJECT GENERATE EXCESSIVE GROUNDBORNE VIBRATION OR GROUNDBORNE NOISE LEVELS?

Construction vibration impacts include human annoyance and building structural damage. Human annoyance occurs when construction vibration rises significantly above the threshold of perception. Building damage can take the form of cosmetic or structural.

The **Table 5** data indicate that construction vibration levels anticipated for the project are less than the 0.2 in/sec threshold at distances of 26 feet. Sensitive receptors which could be impacted by construction related vibrations, especially vibratory compactors/rollers, are located approximately 26 feet, or further, from typical construction activities. At these distances construction vibrations are not predicted to exceed acceptable levels. Additionally, construction activities would be temporary in nature and would likely occur during normal daytime working hours.

This is a less-than-significant impact and no mitigation is required.

IMPACT 3: FOR A PROJECT LOCATED WITHIN THE VICINITY OF A PRIVATE AIRSTRIP OR AN AIRPORT LAND USE PLAN OR, WHERE SUCH A PLAN HAS NOT BEEN ADOPTED, WITHIN TWO MILES OF A PUBLIC AIRPORT OR PUBLIC USE AIRPORT, WOULD THE PROJECT EXPOSE PEOPLE RESIDING OR WORKING IN THE PROJECT AREA TO EXCESSIVE NOISE LEVELS?

There are no airports in the project vicinity. Therefore, this impact is not applicable to the proposed project.

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Appendix A: Acoustical Terminology

Acoustics	The science of sound.
Ambient Noise	The distinctive acoustical characteristics of a given space consisting of all noise sources audible at that location. In many cases, the term ambient is used to describe an existing or pre-project condition such as the setting in an environmental noise study.
ASTC	Apparent Sound Transmission Class. Similar to STC but includes sound from flanking paths and correct for room reverberation. A larger number means more attenuation. The scale, like the decibel scale for sound, is logarithmic.
Attenuation	The reduction of an acoustic signal.
A-Weighting	A frequency-response adjustment of a sound level meter that conditions the output signal to approximate human response.
Decibel or dB	Fundamental unit of sound, A Bell is defined as the logarithm of the ratio of the sound pressure squared over the reference pressure squared. A Decibel is one-tenth of a Bell.
CNEL	Community Noise Equivalent Level. Defined as the 24-hour average noise level with noise occurring during evening hours (7 - 10 p.m.) weighted by +5 dBA and nighttime hours weighted by +10 dBA.
DNL	See definition of Ldn.
IIC	Impact Insulation Class. An integer-number rating of how well a building floor attenuates impact sounds, such as footsteps. A larger number means more attenuation. The scale, like the decibel scale for sound, is logarithmic.
Frequency	The measure of th <mark>e rapidity</mark> of alterations of a periodic signal, expressed in cycles per second or hertz (Hz).
Ldn	Day/Night Average Sound Level. Similar to CNEL but with no evening weighting.
Leq	Equivalent or energy-averaged sound level.
Lmax	The highest root-mean-square (RMS) sound level measured over a given period of time.
L(n)	The sound level exceeded a described percentile over a measurement period. For instance, an hourly L50 is the sound level exceeded 50% of the time during the one-hour period.
Loudness	A subje <mark>ctive term</mark> for the sensation of th <mark>e magnitude of sound.</mark>
NIC	Noise Isolation Class. A rating of the noise reduction between two spaces. Similar to STC but includes sound from flanking paths and no correction for room reverberation.
NNIC	Norma <mark>lized Noise</mark> Isolation Class. Similar to NIC but includes a correction for room reverberation.
Noise	Unwant <mark>ed sound.</mark>
NRC	Noise Reduction Coefficient. NRC is a single-number rating of the sound-absorption of a material equal to the arithmetic mean of the sound-absorption coefficients in the 250, 500, 1000, and 2,000 Hz octave frequency bands rounded to the nearest multiple of 0.05. It is a representation of the amount of sound energy absorbed upon striking a particular surface. An NRC of 0 indicates perfect reflection; an NRC of 1 indicates perfect absorption.
RT60	The time it takes <mark>reverber</mark> ant sound to decay by 60 dB once the source has been removed.
Sabin	The unit of sound absorption. One square foot of material absorbing 100% of incident sound has an absorption of 1 Sabin.
SEL	Sound Exposure Level. SEL is a rating, in decibels, of a discrete event, such as an aircraft flyover or train pass by, that compresses the total sound energy into a one-second event.
SPC	Speech Privacy Class. SPC is a method of rating speech privacy in buildings. It is designed to measure the degree of speech privacy provided by a closed room, indicating the degree to which conversations occurring within are kept private from listeners outside the room.
STC	Sound Transmission Class. STC is an integer rating of how well a building partition attenuates airborne sound. It is widely used to rate interior partitions, ceilings/floors, doors, windows and exterior wall configurations. The STC rating is typically used to rate the sound transmission of a specific building element when tested in laboratory conditions where flanking paths around the assembly don't exist. A larger number means more attenuation. The scale, like the decibel scale for sound, is logarithmic.
Threshold of Hearing	The lowest sound that can be perceived by the human auditory system, generally considered to be 0 dB for persons with perfect hearing.
Threshold of Pain	Approximately 120 dB above the threshold of hearing.
Impulsive	Sound of short duration, usually less than one second, with an abrupt onset and rapid decay.
Simple Tone	Any sound which can be judged as audible as a single pitch or set of single pitches.



Appendix B: Continuous and Short-Term Ambient Noise Measurement Results



				LT-1	Site:				lts	Resul	oring	Moni	s Noise	Continuou	Appendix B1
۱p	rive A	Park D	omas	Nato	oject:	Pro				dBA	Level, o	sured	Me		
n	t Bou	Project	thern	Sout	tion:	Loca)	L ₉₀	L ₅₀	L _{max}	L _{eq}	Time	Date
50	121.5	73°, -:	1056	38.6	ates:	ordin	Co		;	48	51	62	51	0:00	Thursday, April 29, 2021
									;	48	51	64	52	1:00	Thursday, April 29, 2021
d	sure	Meas					_		:	48	51	70	52	2:00	Thursday, April 29, 2021
							•	95		49	52	62	52	3:00	Thursday, April 29, 2021
										51	54	65	54	4:00	Thursday, April 29, 2021
								B gs		55	58	65	58	5:00	Thursday, April 29, 2021
_							,	s, d		54	56	67	57	6:00	Thursday, April 29, 2021
7	78							eve.		52	54	78	62	7:00	Thursday, April 29, 2021
							5 -	 75		53	57	78	63	8:00	Thursday, April 29, 2021
		_			70			No		52	56	70	60	9:00	Thursday, April 29, 2021
		67	65		∎∕∕			urly		50	52	66	54	10:00	Thursday, April 29, 2021
6	62			62	<u> </u>	62	5	F 65		49	51	68	53	11:00	Thursday, April 29, 2021
		58		V		-		ure		48	50	70	52	12:00	Thursday, April 29, 2021
		57	54					leas		48	50	68	52	13:00	Thursday, April 29, 2021
_			7	52	2 52	51 52	5	≥ 55		48	51	66	53	14:00	Thursday, April 29, 2021
		55 54								48	51	69	54	15:00	Thursday, April 29, 2021
	52		51	49						48	52	72	54	16:00	Thursday, April 29, 2021
				_	410	-10 41	5	45		49	52	66	54	17:00	Thursday, April 29, 2021
										53	55	70	56	18:00	Thursday, April 29, 2021
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Ś	0	9 B	0	0	<i>6</i> 0	0, 0	ר ר א	30		54	55	92	63	20:00	Thursday, April 29, 2021
;.°	√ .∽ q	- 6.2 /	5	3.5 1	2.2	~	0.5			53	55	68	56	21:00	Thursday, April 29, 2021
	021	29, 20	April	day,	hursc	Т				52	54	68	55	22:00	Thursday, April 29, 2021
-	11	. 3			87 - 493	i SSAF 78				50	52	65	53	23:00	Thursday, April 29, 2021
and the	iners:	100	ite	ent Si	ureme	Measu	ise N	Noi)	L90	L50	Lmax	Leq	Statistics	
	and the second		16	and	100			- 22		51	53	71	58	ay Average	
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1	S.									48	50	66	52	Day Low	
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The second			N.		and a			a second		48	51	62	51	Night Low	
	CDr.	s Partk	toma	Nat	A COL	- State				55	58	70	58	Night High	
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	1 36				1. C. II.	100	365	and the second second							



Appendix E

Appendix	B2: Continuo	us Noise	e Moni	toring	Results	
		Me	asured	Level, o	dBA	
Date	Time	L _{eq}	L _{max}	L ₅₀	L ₉₀	
Thursday, April 29, 2021	0:00	51	63	50	48	
Thursday, April 29, 2021	1:00	51	66	50	48	
Thursday, April 29, 2021	2:00	50	62	50	48	
Thursday, April 29, 2021	3:00	51	58	51	49	
Thursday, April 29, 2021	4:00	53	64	53	51	
Thursday, April 29, 2021	5:00	58	64	57	54	₽
Thursday, April 29, 2021	6:00	56	65	56	53	
Thursday, April 29, 2021	7:00	53	61	52	51	A A
Thursday, April 29, 2021	8:00	57	75	54	51	e s
Thursday, April 29, 2021	9:00	55	67	53	51	l
Thursday, April 29, 2021	10:00	52	65	51	49	
Thursday, April 29, 2021	11:00	51	67	50	48	
Thursday, April 29, 2021	12:00	52	67	49	47	l l
Thursday, April 29, 2021	13:00	50	62	49	47	lear
Thursday, April 29, 2021	14:00	51	68	49	47	≥
Thursday, April 29, 2021	15:00	50	66	49	47	
Thursday, April 29, 2021	16:00	51	67	49	47	
Thursday, April 29, 2021	17:00	52	66	51	48	
Thursday, April 29, 2021	18:00	56	71	56	52	
Thursday, April 29, 2021	19:00	58	72	57	56	
Thursday, April 29, 2021	20:00	56	70	56	54	
Thursday, April 29, 2021	21:00	56	66	56	54	
Thursday, April 29, 2021	22:00	55	64	54	53	
Thursday, April 29, 2021	23:00	52	61	52	50	
	Statistics	Leq	Lmax	L50	L90	1
	Day Average	54	67	52	50	-
	Night Average	54	63	53	50	
	Day Low	50	61	49	47	
	Day High	58	75	57	56	-
	Night Low	50	58	50	48	100
	Night High	58	66	57	54	
	Ldn	60	Da	y %	68	100
	CNEL	60	Nig	ht %	32	きる
						State of the second sec



Appendix E

Appendix	x B1: Continuo	us Nois	e Moni	toring	Results
		Me	asured	Level, o	dBA
Date	Time	L _{eq}	L _{max}	L ₅₀	L ₉₀
Thursday, April 29, 2021	0:00	54	68	54	51
Thursday, April 29, 2021	1:00	54	69	53	50
Thursday, April 29, 2021	2:00	54	71	53	50
Thursday, April 29, 2021	3:00	55	68	54	51
Thursday, April 29, 2021	4:00	56	66	56	53
Thursday, April 29, 2021	5:00	60	68	60	57
Thursday, April 29, 2021	6:00	59	73	59	56
Thursday, April 29, 2021	7:00	59	72	57	54
Thursday, April 29, 2021	8:00	64	77	60	55
Thursday, April 29, 2021	9:00	58	75	56	53
Thursday, April 29, 2021	10:00	57	77	55	52
Thursday, April 29, 2021	11:00	57	74	56	52
Thursday, April 29, 2021	12:00	57	74	56	51
Thursday, April 29, 2021	13:00	58	83	55	51
Thursday, April 29, 2021	14:00	61	84	57	53
Thursday, April 29, 2021	15:00	58	83	56	52
Thursday, April 29, 2021	16:00	59	80	56	52
Thursday, April 29, 2021	17:00	60	85	57	53
Thursday, April 29, 2021	18:00	59	74	58	56
Thursday, April 29, 2021	19:00	62	79	59	57
Thursday, April 29, 2021	20:00	59	75	58	56
Thursday, April 29, 2021	21:00	59	72	58	56
Thursday, April 29, 2021	22:00	58	70	57	55
Thursday, April 29, 2021	23:00	55	66	55	52
	Statistics	Leq	Lmax	L50	L90
	Day Average	60	78	57	54
	Night Average	57	69	55	53
	Day Low	57	72	55	51
	Day High	64	85	60	57
	Night Low	54	66	53	50
	Night High	60	73	60	57
	11611161				
	Ldn	63	Da	y %	79





Appendix C: Traffic Noise Calculation Inputs and Results



Appendix C-1

FHWA-RD-77-108 Highway Traffic Noise Prediction Model

Project #: 210317

Description: Natomas Park Drive Apartments - Existing

Ldn/CNEL: Ldn Hard/Soft: Soft

naru/ Sort.	3011																
												Contours (ft.) - No					
				Day	Eve	Night	% Med.	% Hvy.			Offset	60	65	70	Level,		
Segment	Roadway	Segment	ADT	%	%	%	Trucks	Trucks	Speed	Distance	(dB)	dBA	dBA	dBA	dBA		
1	Natomas Park Drive	W El Camino Ave to Garden Hwy	6,520	81	0	19	1.0%	1.0%	30	55	0	69	32	15	61.5		
2	W El Camino Ave	I5 to Truxel Road	21,820	79	0	21	1.0%	1.0%	35	90	0	189	88	41	64.8		



Appendix C-2

FHWA-RD-77-108 Highway Traffic Noise Prediction Model

Project #: 210317

Description: Natomas Park Drive Apartments - Existing Plus Project

Ldn/CNEL: Ldn Hard/Soft: Soft

naru/ 3011.	3011																	
												Contours (ft.) - No						
												Offset						
				Day	Eve	Night	% Med.	% Hvy.			Offset	60	65	70	Level,			
Segment	Roadway	Segment	ADT	%	%	%	Trucks	Trucks	Speed	Distance	(dB)	dBA	dBA	dBA	dBA			
1	Natomas Park Drive	W El Camino Ave to Garden Hwy	7,570	81	0	19	1.0%	1.0%	30	55	0	76	35	16	62.1			
2	W El Camino Ave	I5 to Truxel Road	22,870	79	0	21	1.0%	1.0%	35	90	0	195	91	42	65.0			





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VMT TECHNICAL MEMORANDUM

DATE: May 20, 2021

TO: Scott Johnson, Community Development Department

FROM: Matthew Ilagan, Public Works – Transportation

CC: Pelle Clarke, Public Works - Transportation

SUBJECT: P21-013 Sutter Greens 2.0 Apartments

Public Works has reviewed the application for the above referenced project. The project proposes a 190-unit apartment community development with 346 parking spaces at 2450 Natomas Park Drive. The site was formerly the Natomas Sports Club.

Vehicle Miles Traveled Thresholds

Based on current practice of the City of Sacramento for residential projects, transportation impacts for CEQA purposes are considered significant if the proposed project would generate Household VMT per capita figures that exceed 85% of the regional average for Household VMT per capita, consistent with technical advisory guidance published by the Governor's Office of Planning and Research (OPR) in 2018.

VMT Screening Criteria

Based on current practice of the City of Sacramento, several "screening thresholds" are used to quickly determine whether a project may be presumed to have a less-than-significant VMT impact without conducting a detailed projected generated VMT analysis. For residential projects, screening criteria include:

- <u>Small Projects</u> Absent substantial evidence indicating that a project would generate a
 potentially significant level of VMT, or inconsistency with a Sustainable Communities Strategy
 (SCS) or general plan, projects that generate or attract fewer than 110 trips per day generally
 may be assumed to cause a less-than-significant transportation impact.
- <u>Map-Based Screening</u> Maps created with VMT data can illustrate areas that are currently below threshold VMT. Output from the SACOG regional travel demand model may be generalized to simplify project VMT estimates as well as producing screening maps. Because new development in such locations would likely result in a similar level of VMT, such maps can be used to screen out residential and office projects from needing to prepare a detailed VMT analysis.
- <u>Near Transit Stations</u> presumption that certain projects proposed within ½ mile of an existing major transit stop or an existing stop along a high-quality transit corridor will have a less-than-



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significant impact on VMT. Additionally, the project would need to have a floor area ratio of at least 0.75, without excessive parking, is consistent with the adopted regional SCS, and does not result in a reduction of citywide affordable housing.

• <u>Affordable Residential Development</u> – adding affordable housing to infill locations generally improves jobs-housing match, in turn shortening commutes and reducing VMT.

VMT Screening Evaluation

The project was evaluated against the following screening criteria to determine if it could be presumed to have a less-than-significant VMT impact:

<u>Map-Based Screening</u> – The proposed project's VMT was determined using the residential VMT SACOG maps derived from the traffic analysis zone results from SACOG's travel demand model, known as SACSIM. These maps use hexagonal shaped geographic areas (HEX) to establish a uniform grid of Household VMT per capita by tallying all household VMT's generated by residents within the HEX and dividing by the total population in the HEX. As evidenced in Figure 1, the proposed project falls within a HEX calculated to produce between 50% to 85% of the Regional Average which is less than the average household VMT per capita for the region.

Because of the project meeting screening criteria using the Map-Based screening, <u>a VMT analysis for</u> the proposed project is not required.

If you have any questions, please call me at (916) 808-8502, or contact me via e-mail at <u>Mllagan@cityofsacramento.org</u>.



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Figure 1 – SACOG VMT Residential Screening Map