Town of Los Gatos
Community Development Department

14789 Oka Road Project

Initial Study/Mitigated Negative Declaration

March 2026

Prepared by

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25 years
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INITIAL STUDY/MITIGATED NEGATIVE DECLARATION

A. BACKGROUND

1. Project Title: 14789 Oka Road Project

2. Lead Agency Name and Address: Town of Los Gatos
Community Development Department
110 E. Main Street
Los Gatos, CA 95030

3. Contact Person and Phone Number: Erin Walters
Senior Planner
(408) 354-6867

4. Project Location: 14789 Oka Road
Los Gatos, CA 95030
Assessor's Parcel Numbers (APNs): 424-08-035 and -074

5. Project Sponsor's Name and Address: Erik Hayden
Urban Catalyst
99 South Almaden Boulevard, Suite 500
San Jose, CA 95113

6. Existing General Plan Designation: Public and Low-Density Residential (LDR)

7. Existing Zoning Designation: Residential, 8,000 square foot (sf) minimum lot area (R-1:8) and R-1:8: Housing Element Overlay (HEOZ)

8. Required Approvals from Other Public Agencies: None

9. Surrounding Land Uses and Setting:

The approximately 6.71-acre project site, identified by APNs 424-08-035 and -074, is currently developed with orchards planted throughout. Los Gatos Creek and its associated levee and riparian corridor are located west of the project site and State Route (SR) 17 is located to the east beyond existing agricultural land. Surrounding land uses include a mobile home community to the north; agricultural land and a single-family residence to the east; the Los Gatos Swim and Racquet Club to the northeast, across Oka Road; the Addison-Penzak Jewish Community Center of Silicon Valley and associated preschool, as well as apartments, to the south; and Los Gatos Creek Trail and multi-family residences to the west beyond Los Gatos Creek. The project site's land use designation is Public and LDR pursuant to the Town of Los Gatos 2020 General Plan and is zoned R-1:8 and R-1:8:HEOZ.

10. Project Description Summary:

    The 14789 Oka Road Project (proposed project) would include the removal of the existing orchard to allow for the subdivision of the site into 18 residential lots and subsequent development of 138 townhome units within 18 residential buildings. The townhomes would include 54 two-bedroom units, each with a tandem garage, and 84 three-bedroom units, each with a two-car garage and a porch. Of the total 138 townhomes, 28 units would be affordable and limited to the maximum income level for "low-income" units.

    The proposed project would also include an approximately 0.41-acre open space area located in the northwestern portion of the site, which would include two stormwater bioretention basins, walkways surrounding the basins, and a seating area located south of the basins. Primary site access would be provided by two new driveways off Oka Road. The proposed project shall also include the construction of a new sidewalk, planting strip, on-street parking, and a bike lane along the Oka Road frontage, consistent with the Jewish Community Center frontage to the south. The proposed project would require approval of a Condominium Vesting Tentative Map, and an Architecture and Site Plan Review. The applicant team has submitted a formal Senate Bill (SB) 330 application for the project site and the applicant is seeking to use the Builder's Remedy. Therefore, the proposed project does not require Town approval of a General Plan Amendment or Rezone to allow for approval of the proposed residential project.

11. Status of Native American Consultation Pursuant to Public Resources Code Section 21080.3.1:

    In compliance with Assembly Bill (AB) 52 (Public Resources Code [PRC] Section 21080.3.1), project notification letters were distributed to the Costanan, Northern Valley, Yokut, Bay Miwok, Ohlone, Patwin, Plains Miwok, Bay Miwok, Deltal, and Yokut Tribes on February 21, 2025. Requests for consultation were not received during the required consultation period.

B. SOURCES

The following documents are referenced information sources used for the purpose of this Initial Study/Mitigated Negative Declaration (IS/MND):

1. AEI Consultants. *Limited Phase II Soil Investigation Report*. August 1, 2024.
2. AEI Consultants. *Phase I Environmental Site Assessment*. June 27, 2024.
3. Balance Hydrologics. *Review of Flood Hazards Related to Los Gatos Creek, 14789 Oka Road Project, Town of Los Gatos*. October 14, 2025.
4. Balance Hydrologics. *Updated Summary of Preliminary C3 Modeling for the 14789 Oka Road Project, Town of Los Gatos.* August 15, 2025.
5. Bay Area Air Quality Management District. *2022 California Environmental Quality Act Guidelines.* April 2023.
6. CalEPA. *Cortese List Data Resources*. Available at: https://calepa.ca.gov/sitecleanup/corteselist/. Accessed April 2025.
7. California Building Standards Commission. *2022 California Green Building Standards Code*. 2023.
8. California Department of Conservation. *California Important Farmland Finder*. Available at: https://maps.conservation.ca.gov/DLRP/CIFF/. Accessed May 2025.

9. California Department of Conservation. *California Williamson Act Enrollment Finder.* Available at: https://maps.conservation.ca.gov/dlrp/WilliamsonAct/App/index.html. Accessed May 2025.
10. California Department of Conservation. *California Agricultural Land Evaluation & Site Assessment Model Instruction Manual*. April 2025.
11. California Department of Fish and Wildlife. *RareFind*. Available at: https://apps.wildlife.ca.gov/rarefind/view/RareFind.aspx. Accessed June 2025.
12. California Department of Forestry and Fire Protection. *FHSZ Viewer*. Accessed February 2022.
13. California Department of Resources Recycling and Recovery. *Estimated Solid Waste Generation Rates*. Available at: https://www2.calrecycle.ca.gov/WasteCharacterization/General/Rates. Accessed May 2025.
14. California Department of Transportation. *California Scenic Highway Mapping System*. Available at: https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=465dfd3d807c46cc8e8057116f1aacaa. Accessed August 2025.
15. City of San Jose. *San Jose-Santa Clara Regional Wastewater Facility.* Available at: https://www.sanjoseca.gov/your-government/departments-offices/environmental-services/water-utilities/regional-wastewater-facility. Accessed October 2023.
16. Cornerstone Earth Group. *Geotechnical Investigation.* February 25, 2025.
17. Department of Resources Recycling and Recovery. *SWIS Facility/Site Activity Details – Guadalupe Sanitary Landfill (43-AN-0015).* Available at: https://www2.calrecycle.ca.gov/SolidWaste/SiteActivity/Details/1376?siteID=3399. Accessed May 2025.
18. Department of Toxic Substances Control. *EnviroStor.* Available at: https://www.envirostor.dtsc.ca.gov/public/. Accessed April 2025.
19. Federal Emergency Management Agency. *Flood Insurance Rate Map 06085C0239H.* Available at: https://hazards-fema.maps.arcgis.com/apps/webappviewer/index.html. Accessed May 2025.
20. Hexagon Transportation Consultants, Inc. *Oka Road Townhomes Transportation Analysis.* May 5, 2025.
21. HMH. *Stormwater Management Plan for 14789 Oka Road, Los Gatos, CA.* August 14, 2025.
22. HMH, Urban Catalyst, Dahlin, Giacalone. *Responses to 14789 Oka Road – Arborist Peer Review 12-12-24*. Submitted to The Town on January 28, 2025.
23. Illingworth & Rodkin, Inc. *14789 Oka Road Residential Development Noise and Vibration Assessment.* January 14, 2025.
24. Illingworth & Rodkin, Inc. *Oka Road Development Air Quality & Greenhouse Gas Assessment.* January 14, 2025.
25. Illingworth & Rodkin, Inc. *Quantitative Analysis of Soil Hauling Increase.* February 3, 2026.
26. Kielty Arborists Services LLC. *Oka Road, Los Gatos CA, Arborist Report 2024.* June 28, 2024.
27. Monarch Consulting Arborists. *Arborist's Review 14789 Oka Road*. December 12, 2024.
28. San Jose Water Company. *2020 Urban Water Management Plan*. June 2021.
29. Santa Clara Valley Water District. *2020 Urban Water Management Plan.* June 2021.
30. Santa Clara Valley Water District. *Dam Safety Program.* Available at: https://www.valleywater.org/flooding-safety/dam-safety-program. Accessed June 2025.
31. Santa Clara Valley Water District. *Local Dams and Reservoirs.* Available at: https://www.valleywater.org/your-water/local-dams-and-reservoirs. Accessed June 2025.
32. State Water Resources Control Board. *GeoTracker.* Available at: https://geotracker.waterboards.ca.gov/map/. Accessed April 2025.

33. Town of Los Gatos. *2040 General Plan EIR.* June 2022.
34. Town of Los Gatos. *Emergency Operation Plan*. 2015.
35. Town of Los Gatos. *Objective Design Standards for Qualifying Multi-Family And Mixed-Use Residential Development*. Updated January 31, 2023.
36. Town of Los Gatos*. Town of Los Gatos 2020 General Plan*. January 7, 2011.
37. Town of Los Gatos*. Town of Los Gatos 2040 General Plan*. June 30, 2022.
38. Town of Los Gatos. *Weekday Traffic Volumes 2010-2014.* Available at: https://www.losgatosca.gov/972/Traffic-Data. Accessed July 2025.
39. Town of Los Gatos. *What is a Historic Resource?* Available at: https://www.losgatosca.gov/1718/Introduction-to-Historic-Preservation. Accessed October 2023.
40. U.S. Census Bureau. *QuickFacts: Los Gatos town, California.* Available at: https://www.census.gov/quickfacts/fact/table/losgatostowncalifornia/PST045222. Accessed May 2025.

C. ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is "Less-Than-Significant with Mitigation Incorporated" as indicated by the checklist on the following pages.

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

D. DETERMINATION

On the basis of this initial study:

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

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

☐ I find that the Proposed Project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

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

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



Signature

02/23/26
Date

Erin Walters, Senior Planner
Printed Name

Town of Los Gatos
For

E. INTRODUCTION

This IS/MND identifies and analyzes the potential environmental impacts of the proposed project. The information and analysis presented in this document are organized in accordance with the order of the California Environmental Quality Act (CEQA) checklist in Appendix G of the CEQA Guidelines. Where the analysis provided in this document identifies potentially significant environmental effects of the project, mitigation measures sufficient to reduce the impacts to less-than-significant levels are prescribed.

The mitigation measures prescribed for environmental effects described in this IS/MND would be implemented in conjunction with the proposed project, as required by CEQA, and the mitigation measures would be incorporated into the proposed project through Conditions of Approval. The Town would adopt findings and a Mitigation Monitoring and Reporting Program (MMRP) for the proposed project in conjunction with project approval.

On June 30, 2022, the Town of Los Gatos adopted the Town's 2040 General Plan Update,[1] and the associated 2040 General Plan Environmental Impact Report (2040 General Plan EIR)[2] was certified. On April 2, 2024, the Town Council voted to rescind the Land Use and Community Design Elements of the 2040 General Plan. Therefore, the Town's current General Plan consists of the Land Use Element and Community Design Element of the Town of Los Gatos 2020 General Plan,[3] and the remaining elements of the 2040 General Plan. The Town of Los Gatos 2020 General Plan EIR (2020 General Plan EIR) is the effective EIR for the Land Use Element and the Community Design Element. Therefore, when the term "General Plan" is used in this IS/MND, the General Plan in effect is being referenced (i.e., the Town of Los Gatos 2040 General Plan with the 2020 General Plan's Land Use and Community Design Elements).

Given that the 2040 General Plan was adopted by the Town and the associated General Plan EIR was certified, the 2040 General Plan and General Plan EIR are considered the relevant documents for the purposes of the analysis included in this IS/MND. However, as stated above, the 2020 General Plan is considered the relevant document with regard to the Land Use and Community Design Elements.

Applicable portions of the General Plan and General Plan EIR are incorporated by reference, as necessary, as part of this IS/MND. The General Plan EIR is a program EIR, prepared pursuant to Section 15168 of the CEQA Guidelines (Title 14, California Code of Regulations [CCR], Sections 15000 et seq.). The General Plan EIR analyzed full implementation of the General Plan and identified measures to mitigate the significant adverse impacts associated with the General Plan.

Project-specific technical reports have also been prepared for the proposed project and form the basis of several technical sections of this IS/MND. All technical reports used in the preparation of this IS/MND are attached as appendices.

F. PROJECT DESCRIPTION

The following provides a description of the project site's current location and setting, as well as the proposed project components and the discretionary actions required for the project.

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1 Town of Los Gatos. *Town of Los Gatos 2040 General Plan*. June 30, 2022.
2 Town of Los Gatos. *2040 General Plan EIR*. June 2022.
3 Town of Los Gatos. *Town of Los Gatos 2020 General Plan*. January 7, 2011.

Project Location and Setting

The approximately 6.71-acre project site, identified by APNs 424-08-035 and -074, is located at 14789 Oka Road in the Town of Los Gatos, California (see Figure 1 and Figure 2). Los Gatos Creek and its associated levee and riparian corridor are located west of the project site, beyond an existing fence and unpaved maintenance access road. SR 17 is located to the east beyond existing agricultural land. Surrounding land uses include a mobile home community to the north; agricultural land and a single-family residence to the east; the Los Gatos Swim and Racquet Club to the northeast, across Oka Road; a Jewish community center and associated preschool, as well as apartments, to the south; and Los Gatos Creek Trail and multi-family residences to the west beyond Los Gatos Creek. Fremont Court is a paved road along the western boundary of the mobile home community to the north and becomes an unpaved maintenance access road to the north and south of that adjacent site, including along the western boundary of the project site, which ultimately travels under SR 85 and connects to existing development opposite SR 85 to the north and connects to Lark Avenue to the south. The project site is designated Public and LDR by the Town of Los Gatos 2020 General Plan and is zoned R-1:8 and R-1:8:HEOZ.

Project Components

The proposed project would subdivide the project site into 18 residential lots, each of which would be developed with one building containing either seven or 12 units for a total of 138 residential units. Six lots would be 16,439 sf with a seven-unit building and the remaining 12 residential lots would be 18,928 sf in size with an eight-unit building (see Figure 3). Of the 138 total units, 84 would be three-bedroom units ranging from 1,905 sf to 2,027 sf in size and the remaining 54 would be two-bedroom units would be 1,413 sf. The two-bedroom units would include a tandem garage while the three-bedroom units would include a two-car garage. All units would include a porch. Consistent with the State's Housing Affordability Act, 20 percent of the total 138 units (28 units) would be affordable, limited to the maximum income level for "low-income" units (households that earn less than 80 percent of the area median income).

The proposed project would comply with side setbacks for all lots and would also include a five-foot landscape buffer (see Figure 4). The proposed buildings would stand at a height of 43 feet and 3.125 inches. The proposed project would require approval of a Condominium Vesting Tentative Map and would be subject to the Town's Architecture and Site Plan Review process.

The applicant team has submitted a formal SB 330 application for the project site and is seeking to use the Builder's Remedy. Therefore, the proposed project does not require Town approval of a General Plan Amendment or Rezone to allow for approval of the proposed residential project.

Primary site access would be provided by two new driveways off Oka Road, one in each of the project site corners adjacent to Oka Road. The new connections would lead to two new 26-foot-wide roadways along the project site boundaries (identified as Burroughs Lane and Hayden Lane in Figure 3). Additional internal roadways, identified as Menne Lane, Ogilvie Lane, and Greenman Lane, would be 22 feet wide and provide access to the proposed townhomes. The proposed project shall also include the construction of a new five-foot-wide sidewalk, a planting strip, on-street parking, and a bike lane along the Oka Road frontage, consistent with the Jewish Community Center frontage to the south. A total of 276 parking spaces would be provided throughout the project site, including two spaces per unit and 20 guest spaces. The guest spaces would include an Americans with Disabilities Act (ADA) van stall, two Electric Vehicle (EV) Charging System (EVCS) stalls, and eight EV capable stalls.

Figure 1
Regional Project Location

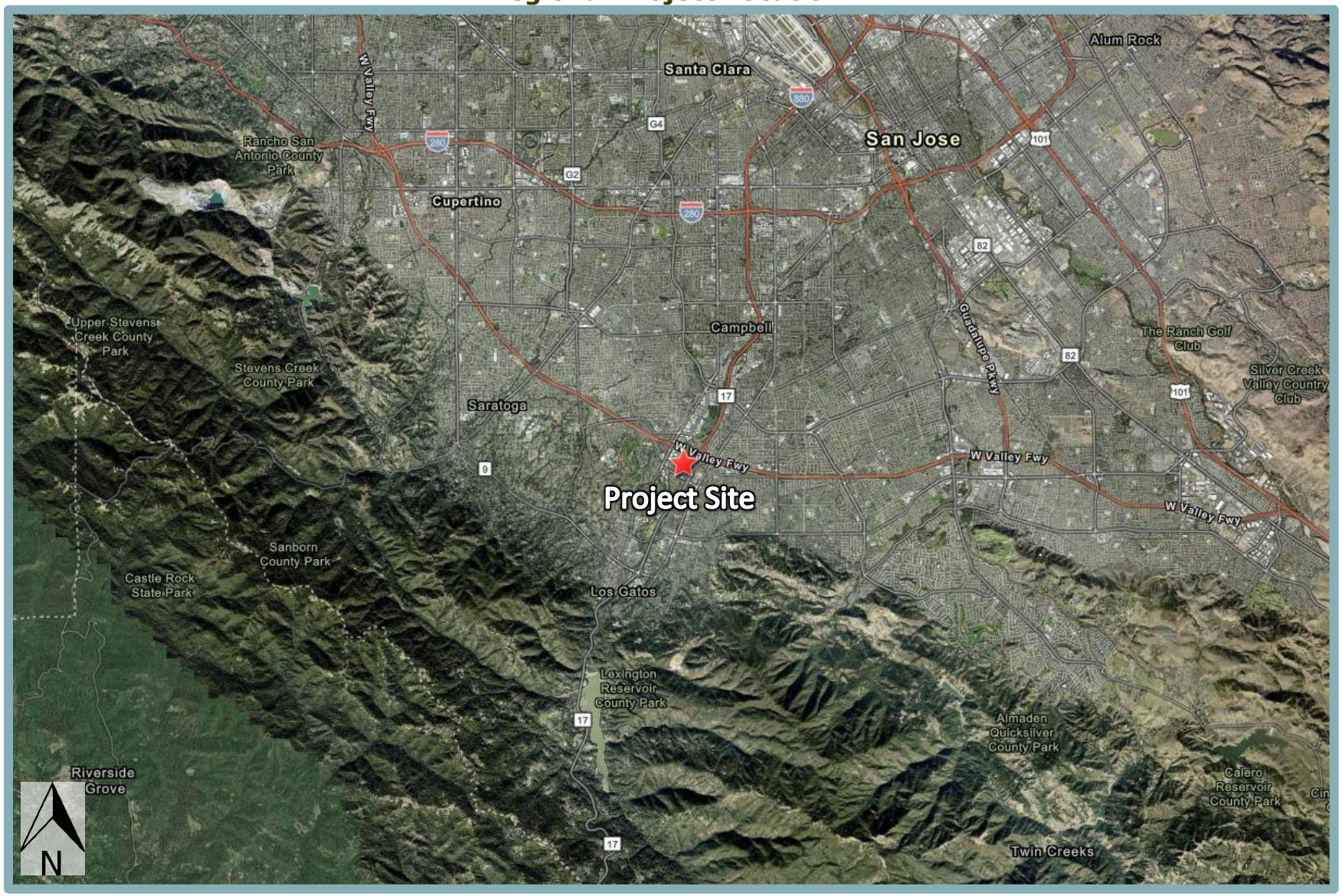


Figure 2
Project Site Boundaries



*Figure not OCR compatible.

Figure 3
Site Plan

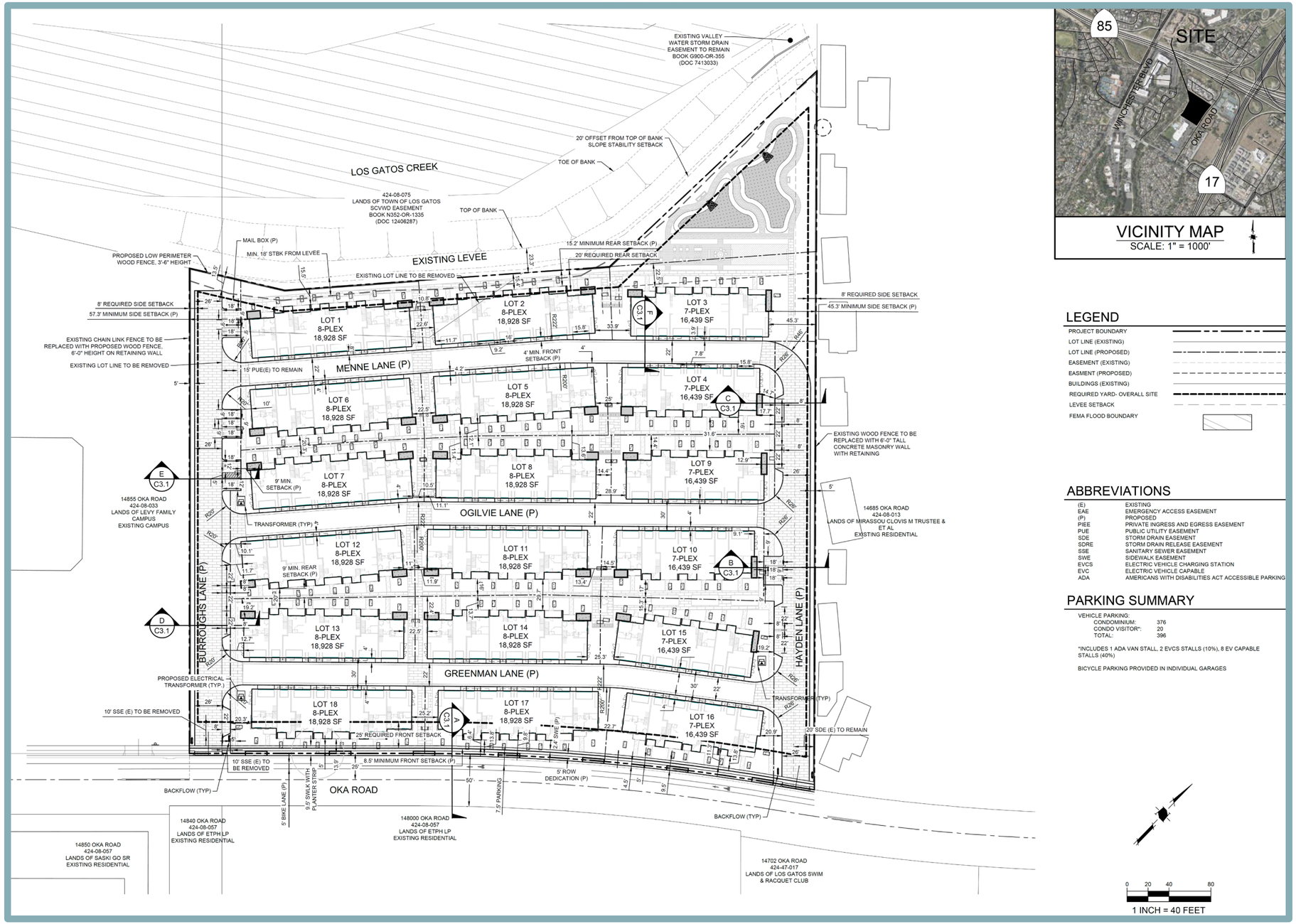


*Figure not OCR compatible.

Figure 4
Preliminary Landscape Plan



*Figure not OCR compatible.

Water and sewer utilities would be provided through new connections to existing utility lines within the project vicinity (see Figure 5 and Figure 6). Specifically, the proposed project would connect to the existing eight-inch water main in Oka Road at the Oka Road/Burroughs Lane and Oka Road/Hayden Lane intersections in the corners of the project site. The project would connect to the existing 20-inch sewer line within Oka Road between the proposed Lots 16 and 17. Water would be provided to the project site by San Jose Water Co. (SJW) and sewer service would be provided by West Valley Sanitation District.

With respect to stormwater drainage, the proposed project would include a series of new storm drains throughout the site, as well as a new 15-inch storm drain line within Oka Road. The project site would be divided into 46 drainage management areas (DMAs) (see Figure 7). DMAs 1 through 30 would collect roof runoff from the proposed buildings that would be directed to separate concrete-lined flow-through planters with underdrains. DMA 31 is the largest of the DMAs and consists mostly of the impervious paved roadways within the site. Stormwater from DMA 31 would be routed to an unlined bioretention area with underdrain located in the northernmost portion of the site, which would include an enlarged rock underlayer. Roadway pavers with a crushed rock underlayer would be located within DMAs 32 and 33 along the northern and southern project site boundaries. The pedestrian and common space areas between buildings would be contained within DMAs 34 through 37 and would feature permeable paver walkways. The paver areas would feature a crushed rock underlayer to promote infiltration. DMAs 38 through 44 include areas of Oka Road adjacent to the site that would route stormwater to separate concrete-lined flow-through planters with underdrains. DMAs 45 and 46 are also comprised of portions of Oka Road and would route stormwater to the existing storm drainage system. Treated stormwater from the proposed storm drainage system would be routed to an existing 42-inch storm drain trunk line that aligns with the proposed new Hayden Lane, which ultimately discharges to an existing outfall to Los Gatos Creek.

Condominium Vesting Tentative Map

As discussed above, the proposed project would include the subdivision of the project site into 18 residential lots for the development of 138 residential units within 18 townhome buildings, as well as the construction of associated utilities and internal roadways. To accommodate the proposed subdivision, the proposed project would require Town approval of a Condominium Vesting Tentative Subdivision Map.

Architecture and Site Plan Review

The Town's Community Development Department is responsible for a plan review of all new construction, additions, and remodels for both commercial and residential properties, as well as construction inspection services for projects including electrical, plumbing and mechanical installations. Plan review ensures compliance with State and local codes, policies, guidelines and standards of all residential and commercial structures within the Town limits. As described in the Town's Code, the purpose of Architecture and Site Plan Review through the Planning Division is to regulate the height, width, shape, proportion, siting, exterior construction and design of buildings to ensure that they are architecturally compatible with their surroundings. Section 29.20.150 of the Town Code lists the matters that the Town must consider when reviewing applications for Architecture and Site Approval.

Figure 5
Proposed Utility Plan (1 of 2)

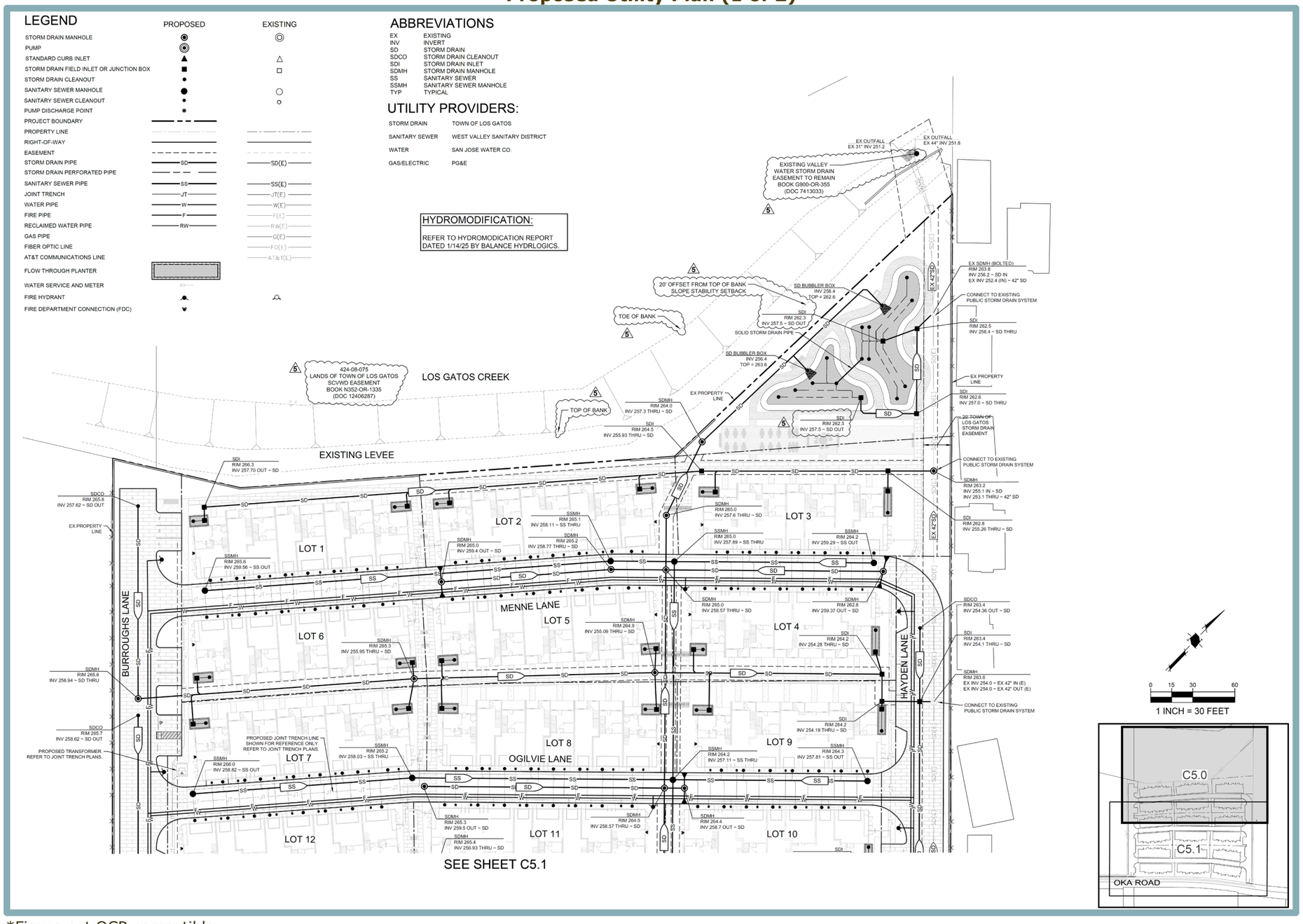


*Figure not OCR compatible.

Figure 6
Proposed Utility Plan (2 of 2)

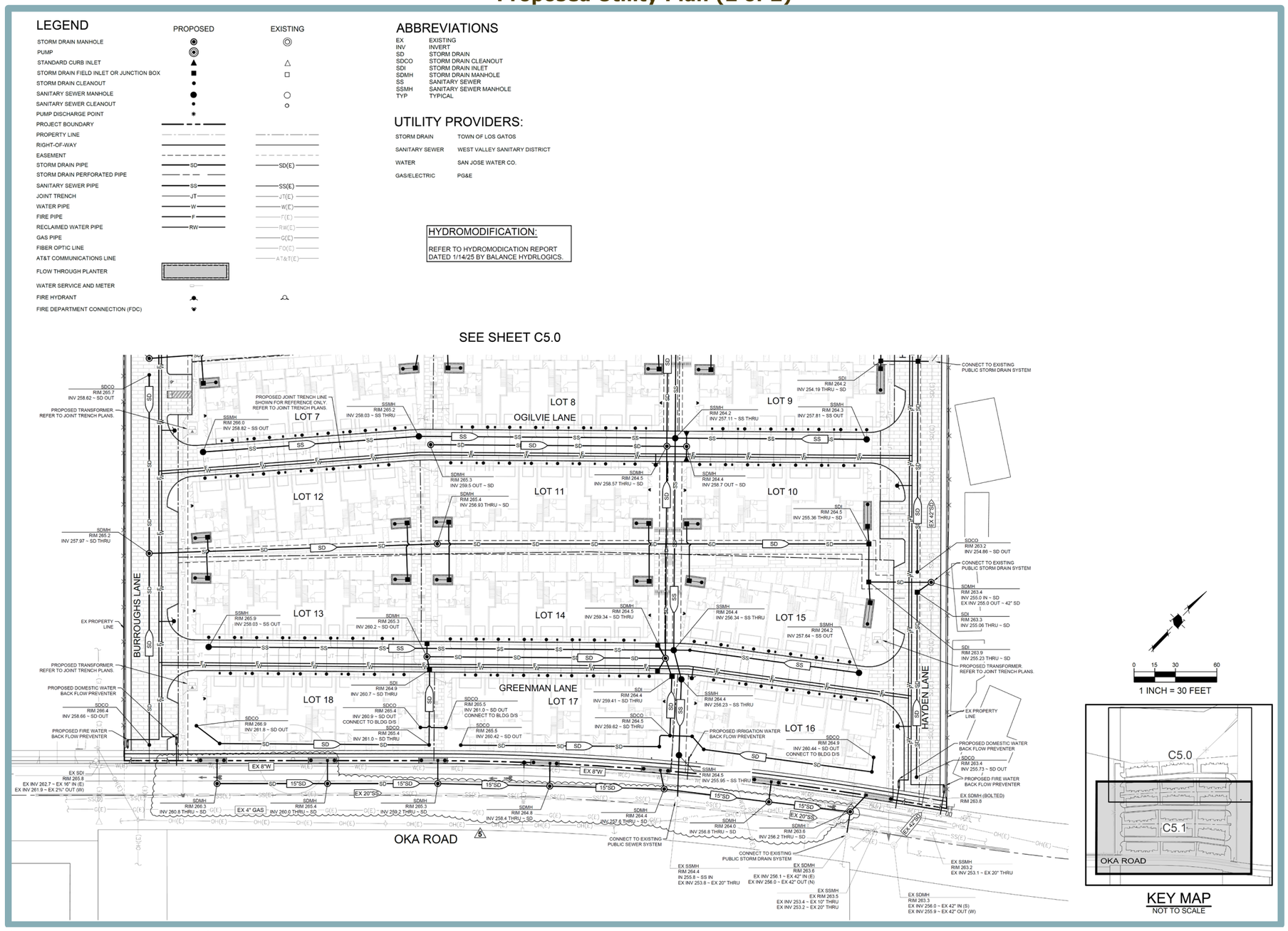


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Figure 7
Stormwater Control Plan

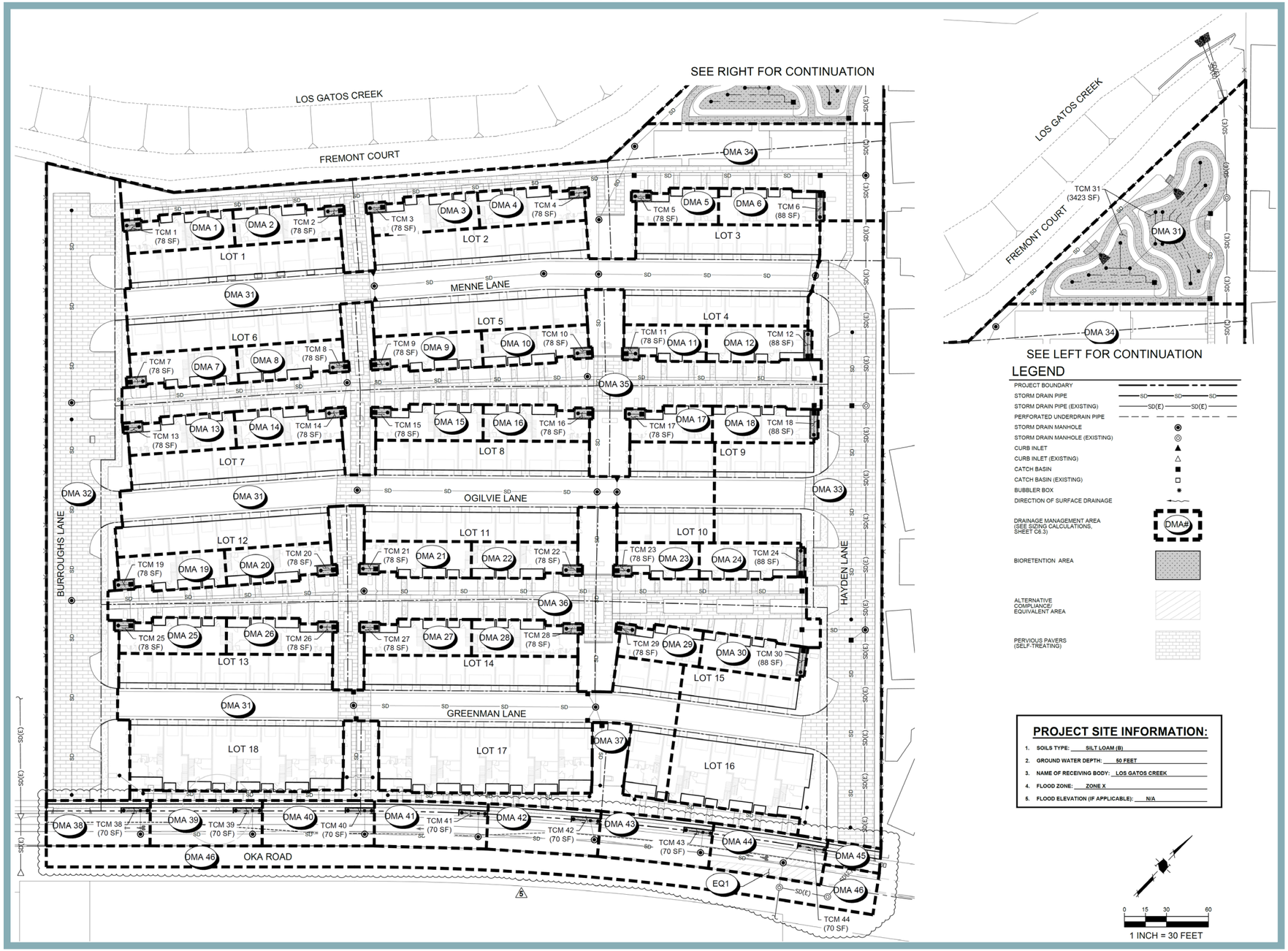


*Figure not OCR compatible.

For example, the Town has adopted Objective Design Standards for Qualifying Multi-Family And Mixed-Use Residential Development,[4] which address site layout and building placement; vehicular access and parking; outdoor areas and amenities; building form and massing; façade articulation; materials; and roof design. The purpose of the Objective Design Standards is to ensure that new qualifying projects in Los Gatos provide high-quality architecture, integrate with surrounding development, and include well-designed amenities and outdoor areas to enhance community character. Although the proposed project deviates from the Objective Design Standards in some areas, such as the provision of short-term bicycle parking spaces, the project does partially comply with various elements of the Town's adopted design standards. For example, a six-foot solid masonry wall will be constructed along the northeastern site boundary and trees would be planted at a rate of at least one tree per 30 linear feet along shared property lines.

Discretionary Actions

The proposed project would require the following discretionary approvals from the Town of Los Gatos:

- Adoption of the IS/MND;
- Adoption of a Mitigation Monitoring/Reporting Program;
- Approval of a Condominium Vesting Tentative Map; and
- Architecture and Site Plan Review.

In addition, the applicant team has submitted a formal SB 330 application for the project site and is seeking to use the Builder's Remedy (Government Code Section 65589.5(d)(5)). Pursuant to the Housing Accountability Act, the proposed project does not require Town approval of a General Plan Amendment or Rezone to allow for approval of the proposed residential project.

[4] Town of Los Gatos. *Objective Design Standards for Qualifying Multi-Family And Mixed-Use Residential Development*. Updated January 31, 2023.

G. ENVIRONMENTAL CHECKLIST

The following checklist contains the environmental checklist form presented in Appendix G of the CEQA Guidelines. The checklist form is used to describe the impacts of the proposed project. A discussion follows each environmental issue identified in the checklist. For this checklist, the following designations are used:

Potentially Significant Impact: An impact that could be significant, and for which no sufficient mitigation has been identified. If any potentially significant impacts are identified, an EIR must be prepared.

Less Than Significant with Mitigation Incorporated: An impact that requires mitigation to reduce the impact to a less-than-significant level.

Less-Than-Significant Impact: Any impact that would not be considered significant under CEQA relative to existing standards.

No Impact: The project would not have any impact.

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

Discussion

a,b. Examples of typical scenic vistas include mountain ranges, ridgelines, or bodies of water as viewed from a highway, public space, or other area designated for the express purpose of viewing and sightseeing. In general, a project's impact to a scenic vista would occur if development of the project would substantially change or remove a scenic vista. The General Plan EIR identifies southward views of the Santa Cruz Mountains and ridgelines as the primary protected scenic vistas within the Town. Due to the heavily wooded nature of the Town, scenic views are most prominent from the southbound lanes of the Town's major north-south running streets. Oka Road runs generally north-south within an area of the Town that affords limited distant views of the Santa Cruz Mountains as seen looking southward. The project site is located along the western boundary of Oka Road, where the distant views of the Santa Cruz Mountains are limited and already predominantly blocked by existing development and vegetation. Development of the proposed project would obstruct a portion of the limited views of the distant Santa Cruz Mountains; however, the change would not be considerable and views would still be offered looking southward. Furthermore, due to the intervening topography and vegetation described above, views of any other potential ridgelines beyond the project site are not visible from Oka Road.

At a local level, the Town does not identify any roadways as scenic routes. In addition, while SR 17 is designated as eligible for listing as a State Scenic Highway, officially designated State Scenic Highways are not located within the Town.[5] Therefore, the proposed project would not have the potential to damage scenic resources within the vicinity of a State Scenic Highway.

Based on the above, development of the proposed project would not have a substantial adverse effect on a scenic vista and would not substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a State Scenic Highway, and a ***less-than-significant*** impact would occur.

[5] California Department of Transportation. *California Scenic Highway Mapping System.* Available at: https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=465dfd3d807c46cc8e8057116f1aacaa. Accessed August 2025.

c. The project site is generally located in an urbanized area of the Town. Pursuant to Appendix G of the CEQA guidelines, because the project site is in an urbanized area, the relevant threshold is whether the project would conflict with applicable zoning and other regulations governing scenic quality.

The Town does not have any expressed policies directly governing scenic quality. The project site is zoned R-1:8 and R-1:8:HEOZ. Pursuant to Section 29.40.385 of the Town's Code, the R-1 zoning designation allows for residential uses. The Town's Architecture and Site Plan Review process would ensure that the project meets portions of the Town's Objective Design Standards for Qualifying Multi-Family and Mixed-Use Residential Development to the extent practical. The R-1 zoning district allows a maximum height of 30 feet. The proposed project would include a maximum building height of 43 feet and 3.125 inches, with the majority of the proposed buildings being approximately 40 to 41 feet in height. While these proposed heights exceed the maximum allowable height in the R-1 zone by approximately 10 feet, other multi-story buildings are already located in the adjacent area, such as the Jewish Community Center, with an approximate height of 28 to 30 feet, and the two-story Los Gatos Gardens apartment complex south of Oka Road.

With respect to other project design elements, the proposed project's front setbacks would range from 9.65 feet to 32.75 feet, some of which would conflict with the minimum front setback of 25 feet. The proposed project would comply with side setbacks for all lots and would also include a five-foot landscape buffer (see Figure 4). Additional buffering from Oka Road would be provided by the proposed street, parking areas, and sidewalks. The proposed buildings would be located a minimum of 45 feet from the shared property line with the mobile homes to the north of the site. The project plans would be subject to the Town's Architecture and Site Plan Review process, which is intended to regulate the height, width, shape, proportion, siting, exterior construction, and design of buildings to ensure that new buildings are architecturally compatible with their surroundings.

Based on the above and compliance with the Town's Architecture and Site Plan Review process, the proposed project would not conflict with applicable zoning and other regulations governing scenic quality, and a ***less-than-significant*** impact would occur.

d. The project site currently consists of orchards and, thus, does not include existing sources of light or glare. Existing sources of light and glare in the vicinity of the site include, but are not limited to, headlights on cars and trucks travelling along Oka Road and private driveways, exterior light fixtures, and interior light spilling through windows of nearby uses.

The Community Design Element of the 2020 General Plan contains policies and goals for light and glare, implementation of which would reduce potential impacts from new development. Policy CD-3.2 states that street and structural lighting shall be required to achieve minimal visual impact by preventing glare, limiting light on neighboring properties, and avoiding light pollution of the night sky. Policy CD-17.3 requires design standards that include a review of project lighting to be considered for every project. Figure 8 shows the lighting plan for the proposed project; as shown therein, the proposed project would include street lighting along Oka Road and additional lighting throughout the site. However, the proposed lighting would result in a maximum foot-candle value of 0.1 at the project site boundaries. In addition, while future development of the project site with 18 buildings would add new sources of light and glare to the site, such sources would be similar in nature to existing surrounding uses and would not spill over to adjacent lots, including the sensitive uses north of the site. Therefore, the proposed site lighting would

not adversely affect day or nighttime views in the area, and a ***less-than-significant*** impact related to creating a new source of substantial light or glare would occur.

Figure 8
Lighting Plan

Luminaire Schedule - LED

Project: OKO ROAD - LOS GATOS

Symbol	Qty	Label	Arrangement	LLF	Luminaire Lumens	Luminaire Watts	Description	Filename
	15	BB	Single	0.900	1558	14.34	LUMEC S-OSPxHx-15W40LED-740-G1-4F-HS @ 11' LC	S-OSPxHx-15W40LED-740-G1-4F-HS.ies
	22	CC	Single	0.900	1519	14.34	LUMEC S-OSPxHx-15W40LED-740-G1-2F-HS @ 11' LC	S-OSPxHx-15W40LED-740-G1-2F-HS.ies
	24	WP	Single	0.900	2118	20.9	GARDCO PWS-196L-450-NW-G3-2-UNV @ 8'	PWS-196L-450-NW-G2-2-UNV.ies

Calculation Summary

Project: OKO ROAD - LOS GATOS

Description	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
GARAGE ALLEY DRIVES	Illuminance	Fc	0.55	3.8	0.1	5.50	38.00
MAIN DRIVES AND PARKING AREAS	Illuminance	Fc	0.47	2.7	0.1	4.70	27.00
TYPICAL PATHWAYS	Illuminance	Fc	0.73	2.8	0.1	7.30	28.00



Note: Unless otherwise specified - the lamp lumen depreciation (LLD) for legacy sources used in these calculations is based on published mean lumen ratings by major lamp manufacturers; 0.80 LLD for pulse start metal halide; 0.90 LLD for high pressure sodium; 0.95 LLD for linear T8 and T5 fluorescent; 0.86 LLD for compact fluorescent and induction; 0.88 LLD for Cosmo and Elite lamps. 0.94 LDD for all LED sources. Unless otherwise noted - 0.90 luminaire dirt depreciation (LDD) is commonly applied. In cases where appropriate - ballast factor (BF) is applied. Additional user defind factors (UDF) may be applied if necessary to represent luminaire performance to a higher degree of accuracy. Total light loss factor (LLF) is the product of all multiplied loss factors.

PLAN LIGHTING - PHOTOMETRIC ANALYSIS - LAYOUT RECOMMENDATION

(ALL VALUES SHOWN ARE MAINTAINED HORIZONTAL FOOTCANDLES AT FINISHED GRADE, U.O.N.)

PRELIMINARY - NOT FOR CONSTRUCTION
NOT FOR QUOTING PURPOSES

*Figure not OCR compatible.

II. AGRICULTURE AND FOREST RESOURCES. *In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. Would the project:*	Potentially Significant Impact	Less-Than-Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	✖	☐
b. Conflict with existing zoning for agricultural use, or a Williamson Act contract?	☐	☐	✖	☐
c. Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?	☐	☐	☐	✖
d. Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	✖
e. Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	☐	☐	✖	☐

Discussion

a,e. The project site is currently used for agricultural production with orchards planted throughout. According to the California Department of Conservation (DOC) Farmland Mapping and Monitoring Program (FMMP), the project site is characterized as Prime Farmland.[6] Prime Farmland is defined by the DOC as irrigated land with the best combination of physical and chemical features to sustain long term production of agricultural crops, including soil quality, growing season, and moisture supply. In order to qualify as Farmland, the land must have been used for production of irrigated crops at some time during the four years prior to the DOC mapping date. Land located east of the site, across Oka Road, is also designated as Prime Farmland. In addition, active agricultural land located southeast of the site, east of the existing apartment complex, is designated as Unique Farmland by the FMMP. Unique Farmland is defined as having lesser quality soils used for agricultural production and is usually irrigated, but may include non-irrigated orchards or vineyards.

Rather than relying solely on the FMMP designation of the project site, the 6.71-acre site was evaluated using the California Agricultural Land Evaluation and Site Assessment (LESA) model (see Appendix A). As explained in the Checklist for Section II, Agriculture and Forestry Resources, within Appendix G of the CEQA Guidelines, a lead agency may refer to the LESA model to determine whether the conversion of on-site agricultural

[6] California Department of Conservation. *California Important Farmland Finder*. Available at: https://maps.conservation.ca.gov/DLRP/CIFF/. Accessed May 2025.

resources would be considered significant. The LESA calculations are based on Land Evaluation factors and Site Assessment factors. Land Evaluation factors include information sourced from the U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey, such as the site's Land Capability Classification and Storie Index rating, while Site Assessment factors include the project site's size, water resource availability, surrounding agricultural land use, and surrounding protected resource land (i.e., Williamson Act contracted lands, public parks, and other natural resource lands). A single numeric score is generated after all individual LESA factors have been scored and weighted consistent with the DOC's LESA Instruction Manual.[7] Final project scores are based on a scale of 100 points, with projects able to derive a maximum of 50 points from the Land Evaluation factors and 50 points from the Site Assessment factors.

According to the LESA model, the project site has a final score of 55.45. Scoring thresholds are based upon both the total LESA score, as well as the Land Evaluation and Site Assessment subscores so that a single threshold is not the result of heavily skewed subscores. With respect to the proposed project, a score of 55.45 is considered significant only if the Land Evaluation and Site Assessment subscores are each greater than or equal to 20 points. While the site's Land Evaluation score is 46.19, the Site Assessment factors score is 9.26. Therefore, the proposed project would not exceed the applicable LESA model thresholds, and the impact to the on-site agricultural resources would not be considered significant.

Based on the above, the proposed project would result in a ***less-than-significant*** impact related to the conversion of Prime Farmland, Unique Farmland, or Farmland of Statewide Importance to a non-agricultural use, or otherwise result in the loss of Farmland to non-agricultural use.

b. The project site is not under a Williamson Act contract.[8] In addition, while the project site is currently used for agricultural production, the Town of Los Gatos 2020 General Plan designates the project site as Public and LDR and the site is zoned R-1:8 and R-1:8:HEOZ. Therefore, buildout of the project site with the proposed residential uses would not conflict with a zoning for an agricultural use or a Williamson Act contract, and a ***less-than-significant*** impact would occur.

c,d. The project site is not considered forest land (as defined in PRC Section 12220[g]), timberland (as defined by PRC Section 4526), and is not zoned Timberland Production (as defined by Government Code Section 51104[g]). Therefore, the proposed project would have ***no impact*** with regard to conversion of forest land or any potential conflict with forest land, timberland, or Timberland Production zoning.

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7 California Department of Conservation. *California Agricultural Land Evaluation & Site Assessment Model Instruction Manual*. April 2025.

8 California Department of Conservation. *California Williamson Act Enrollment Finder.* Available at: https://maps.conservation.ca.gov/dlrp/WilliamsonAct/App/index.html. Accessed May 2025.

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

Discussion

a,b. The Town of Los Gatos is located in the San Francisco Bay Area Air Basin (SFBAAB), which is under the jurisdiction of the Bay Area Air District (BAAD).[9] The SFBAAB area is currently designated as a nonattainment area for the State and federal ozone, State and federal fine particulate matter 2.5 microns in diameter ($PM_{2.5}$), and State respirable particulate matter 10 microns in diameter (PM_{10}) ambient air quality standards (AAQS). The SFBAAB is designated attainment or unclassified for all other AAQS. It should be noted that on January 9, 2013, the U.S. Environmental Protection Agency (USEPA) issued a final rule to determine that the Bay Area has attained the 24-hour $PM_{2.5}$ federal AAQS. Nonetheless, the Bay Area must continue to be designated as nonattainment for the federal $PM_{2.5}$ AAQS until such time as the BAAD submits a redesignation request and a maintenance plan to the USEPA, and the USEPA approves the proposed redesignation. The USEPA has not yet approved a request for redesignation of the SFBAAB; therefore, the SFBAAB remains in nonattainment for 24-hour $PM_{2.5}$.

In compliance with regulations, due to the nonattainment designations of the area, the BAAD periodically prepares and updates air quality plans that provide emission reduction strategies to achieve attainment of the AAQS, including control strategies to reduce air pollutant emissions through regulations, incentive programs, public education, and partnerships with other agencies. The current air quality plans are prepared in cooperation with the Metropolitan Transportation Commission and the Association of Bay Area Governments (ABAG).

The most recent federal ozone plan is the 2001 Ozone Attainment Plan, which was adopted on October 24, 2001, and approved by the California Air Resources Board (CARB) on November 1, 2001. The plan was submitted to the USEPA on November 30, 2001, for review and approval. The most recent State ozone plan is the 2017 Clean Air Plan, adopted on April 19, 2017. The 2017 Clean Air Plan was developed as a multi-pollutant plan that provides an integrated control strategy to reduce ozone, PM, toxic air contaminants (TACs), and greenhouse gases (GHGs). Although a plan for achieving the State PM_{10} standard is not required, the BAAD has prioritized measures to reduce PM in developing the control strategy for the 2017 Clean Air Plan. The control strategy serves as the backbone of the BAAD's current PM control program.

[9] It should be noted the Bay Area Air District is formerly known as the Bay Area Air Quality Management District (BAAQMD) and relevant documents are cited as such.

The aforementioned air quality plans contain mobile source controls, stationary source controls, and transportation control measures to be implemented in the region to attain the State and federal AAQS within the SFBAAB. Adopted BAAD 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. The BAAD's established significance thresholds associated with development projects for emissions of the ozone precursors reactive organic gases (ROG) and oxides of nitrogen (NO_X), as well as for PM_{10} and $PM_{2.5}$, expressed in pounds per day (lbs/day) and tons per year (tons/yr), are listed in Table 1. By exceeding the BAAD's mass emission thresholds for ROG, NO_X, PM_{10}, or $PM_{2.5}$, a project would be considered to conflict with or obstruct implementation of the BAAD's air quality planning efforts.

Table 1
BAAD Thresholds of Significance

Pollutant	Construction	Operational	
	Average Daily Emissions (lbs/day)	Average Daily Emissions (lbs/day)	Maximum Annual Emissions (tons/year)
ROG	54	54	10
NO_x	54	54	10
PM_{10} (exhaust)	82	82	15
$PM_{2.5}$ (exhaust)	54	54	10

Source: BAAQMD, CEQA Guidelines, April 2023.

Particulate matter can be split into two categories: fugitive and exhaust. The BAAD thresholds of significance for exhaust are presented in Table 1. BAAD does not maintain quantitative thresholds for fugitive emissions of PM_{10} or $PM_{2.5}$, rather, BAAD requires all projects within the district's jurisdiction to implement Basic Construction Mitigation Measures (BCMMs) related to dust suppression.

The proposed project's construction and operational emissions were quantified as part of the Air Quality and Greenhouse Gas Assessment (AQ/GHG Assessment) prepared for the project by Illingworth & Rodkin, Inc. (I&R) (see Appendix B).[10] The AQ/GHG Assessment used the California Emissions Estimator Model (CalEEMod) web-based software version 2022 – 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 construction data, trip generation rates, vehicle mix, trip length, average speed, etc. Where project-specific information is available, such information was applied in the model. The proposed project's modeling assumed the following:

- Construction was assumed to commence as early as January 2026[11] and take place over approximately 15 months;

[10] Illingworth & Rodkin, Inc. *Oka Road Development Air Quality & Greenhouse Gas Assessment.* January 14, 2025.

[11] At the time the air quality analysis was conducted, project construction was estimated to commence as early as January 2026. Although the assumed date has now past, the CalEEMod modeling conducted using this date provides a conservative estimate of construction-related emissions due to the use of updated, cleaner, and more efficient construction equipment over time, as well as the phasing out of older, higher-polluting machinery, due to compliance with State regulations.

- The proposed project would include construction of 138 residential units, as well as 20 guest parking spaces; and
- The proposed project would include the import of 17,884 cubic yards (CY) of soil.

It should be noted that the AQ/GHG Assessment originally modeled the proposed project's construction emissions with the assumption that 9,148 CY of soil would be imported to the project site. However, as further discussed in Section X, Hydrology and Water Quality, of this IS/MND, the proposed project would actually require the import of 17,884 CY of soil to elevate the site to meet the base flood elevations at the site associated with the off-site creek. Therefore, a Soil Hauling Increase Memorandum was prepared by I&R with the revised inputs.[12]

The proposed project's estimated emissions associated with construction and operations are provided below. All CalEEMod results are included as Attachment 1 to the AQ/GHG Assessment (see Appendix B of this IS/MND).

Construction Emissions

The updated maximum unmitigated construction criteria air pollutant emissions are shown in Table 2. As shown in the table, the proposed project's construction emissions would be below the applicable thresholds of significance for ROG, NO_x, PM_{10}, and $PM_{2.5}$.

Table 2
Maximum Unmitigated Construction Emissions (lbs/day)

Pollutant	Proposed Project Emissions	Threshold of Significance	Exceeds Threshold?
ROG	15.65	54	**NO**
NO_X	11.86	54	**NO**
PM_{10}*	0.43	82	**NO**
$PM_{2.5}$*	0.40	54	**NO**

* Emissions from exhaust only. BAAD has not yet adopted thresholds for fugitive PM emissions.

Source: Illingworth & Rodkin, April 2025 (see Appendix B).

All projects under the jurisdiction of the BAAD are required to implement all of the BAAD BCMMs, which include the following:

1. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.
2. All haul trucks transporting soil, sand, or other loose material off-site shall be covered.
3. All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
4. All vehicle speeds on unpaved roads shall be limited to 15 miles per hour (mph).
5. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.
6. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California

[12] Illingworth & Rodkin, Inc. *Quantitative Analysis of Soil Hauling Increase.* February 3, 2026.

airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.

7. All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified visible emissions evaluator.
8. Post a publicly visible sign with the telephone number and person to contact at the lead agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.

The proposed project's required implementation of the BAAD's BCMMs listed above would help to further minimize construction-related emissions. In particular, implementation of the foregoing measures would reduce fugitive dust emissions resulting from project construction. Even without consideration of BAAD's BCMMs, as shown in Table 2, construction of the proposed project would result in emissions of criteria air pollutants below BAAD's thresholds of significance. Consequently, the proposed project would not conflict with or obstruct implementation of the applicable air quality plans during project construction.

Operational Emissions

According to the AQ/GHG Assessment, the proposed project would result in maximum unmitigated operational criteria air pollutant emissions as shown in Table 3. As shown in the table, the proposed project's operational emissions of ROG, NO_x, PM_{10}, and $PM_{2.5}$ would be below the applicable thresholds. Consequently, the proposed project would not conflict with or obstruct implementation of the applicable air quality plans during operation.

Table 3
Unmitigated Maximum Operational Emissions

Pollutant	Proposed Project Emissions		Threshold of Significance		Exceeds Threshold?
	lbs/day	tons/yr	lbs/day	tons/yr	
ROG	11.42	2.08	54	10	**NO**
NO_X	2.23	0.41	54	10	**NO**
PM_{10}*	5.24	0.96	82	15	**NO**
$PM_{2.5}$*	1.35	0.25	54	10	**NO**

* Emissions from exhaust only. BAAD has not yet adopted thresholds for fugitive PM emissions.

Source: Illingworth & Rodkin, January 2025 (see Appendix B).

Conclusion

As stated previously, the applicable regional air quality plans include the 2001 Ozone Attainment Plan and the 2017 Clean Air Plan. Because the proposed project would not result in emissions of criteria pollutants in excess of BAAD's applicable thresholds of significance, conflicts with or obstruction of implementation of the applicable regional air quality plans would not occur. Thus, a ***less-than-significant*** impact would result.

c. Some land uses are considered more sensitive to air pollution than others, due to the types of population groups or activities involved. Heightened sensitivity may be caused by health problems, proximity to the emissions source, and/or duration of exposure to air pollutants. Children, pregnant women, the elderly, and those with existing health problems

are especially vulnerable to the effects of air pollution. Sensitive receptors are typically defined as facilities where sensitive receptor population groups (i.e., children, the elderly, the acutely ill, and the chronically ill) are likely to be located. Accordingly, land uses that are typically considered to be sensitive receptors include residences, schools, playgrounds, childcare centers, retirement homes, convalescent homes, hospitals, and medical clinics. The nearest existing sensitive receptors to the project site are the mobile home residences immediately adjacent to the northern project site boundary, as well as the preschool associated with the Jewish community center to the south of the project site.

The major pollutant concentrations of concern are localized carbon monoxide (CO) emissions and TAC emissions, which are addressed in further detail below.

Localized CO Emissions

Localized concentrations of CO are related to the levels of traffic and congestion along streets and at intersections. High levels of localized CO concentrations are only expected where background levels are high, and traffic volumes and congestion levels are high. Emissions of CO are of potential concern, as the pollutant is a toxic gas that results from the incomplete combustion of carbon-containing fuels such as gasoline or wood.

In order to provide a conservative indication of whether a project would result in localized CO emissions that would exceed the applicable threshold of significance, the BAAD has established screening criteria for localized CO emissions. According to BAAD, a project would result in a less-than-significant impact related to localized CO emission concentrations if all of the following conditions are true for the project:

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

While BAAD has established the foregoing screening criteria for potential impacts, the SFBAAB has been in attainment of California AAQS (CAAQS) and National AAQS (NAAQS) for CO for more than 20 years.[13] Due to the continued attainment of CAAQS and NAAQS, and advances in vehicle emissions technologies, the likelihood that any single project would create a CO hotspot is minimal.

According to the Transportation Analysis prepared for the proposed project (see Appendix C), the project would generate a total of approximately 994 daily trips, including 66 AM peak hour trips and 79 PM peak hour trips.[14] Based on the Transportation Analysis, even under Cumulative Plus Project conditions, he addition of project-generated trips would not increase traffic volumes at any nearby intersections to more than 44,000 vehicles per hour. For example, the maximum hourly traffic volume under Cumulative Plus Project conditions

[13] Bay Area Air Quality Management District. *Air Quality Summary Reports*. Available at: https://www.baaqmd.gov/about-air-quality/air-quality-measurement/air-quality-summaries. Accessed May 2025.
[14] Hexagon Transportation Consultants, Inc. *Oka Road Townhomes Transportation Analysis.* May 5, 2025.

at the Winchester Boulevard and Lark Avenue intersection would be 2,668 and at the Los Gatos Boulevard and Lark Avenue intersection would be 5,472, which would be well below 44,000 vehicles per hour. Furthermore, areas where vertical and/or horizontal mixing do not occur, such as underpasses or similar features, do not exist in the project area. Therefore, based on the BAAD's screening criteria for localized CO emissions, the proposed project would not be expected to result in substantial levels of localized CO at surrounding intersections or generate localized concentrations of CO that would exceed standards or cause health hazards.

TAC Emissions

Another category of environmental concern is TACs. The CARB's *Air Quality and Land Use Handbook: A Community Health Perspective* (Handbook) provides recommended setback distances for sensitive land uses from major sources of TACs, including, but not limited to, freeways and high traffic roads, distribution centers, and rail yards. The CARB has identified diesel particulate matter (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 associated with TACs are a function of both the concentration of emissions and the duration of exposure, where the higher the concentration and/or the longer the period of time that a sensitive receptor is exposed to pollutant concentrations would correlate to a higher health risk.

The proposed project would not involve any land uses or operations that would be considered major sources of TACs, including DPM. As such, the project would not generate any substantial pollutant concentrations during operations.

Short-term, construction-related activities could result in the generation of TACs, specifically DPM, from on-road haul trucks and off-road equipment exhaust emissions. However, construction is temporary and occurs over a relatively short duration in comparison to the operational lifetime of the proposed project. Health risks are typically associated with exposure to high concentrations of TACs over extended periods of time (e.g., 30 years or greater), whereas the construction period associated with the proposed project would likely be limited to approximately 15 months.

All construction equipment and operation thereof would be regulated pursuant to the CARB In-Use Off-Road Diesel Vehicle Regulation, which is intended to help reduce emissions associated with off-road diesel vehicles and equipment, including DPM. Project construction would also be required to comply with all applicable BAAD rules and regulations, particularly associated with permitting of air pollutant sources. In addition, construction equipment would operate intermittently throughout the day and only on portions of the site at a time.

Because construction equipment on-site would not operate for long periods of time and would be used at varying locations within the site, associated emissions of DPM would not occur at the same location (or be evenly spread throughout the entire project site) for long periods of time. Due to the temporary nature of construction and the relatively short duration of potential exposure to associated emissions, the potential for any one sensitive receptor in the area to be exposed to concentrations of pollutants for a substantially extended period of time would be low. Therefore, construction associated with the proposed project would not be expected to expose any sensitive receptors to substantial pollutant concentrations.

Conclusion

Based on the above, the proposed project would not expose any sensitive receptors to substantial concentrations of localized CO or TACs during construction or operation. Therefore, the proposed project would result in a ***less-than-significant*** impact related to the exposure of sensitive receptors to substantial pollutant concentrations.

d. Emissions of concern include those leading to odors, emission of dust, or emissions considered to constitute air pollutants. Air pollutants have been discussed in questions 'a' through 'c' above. Therefore, the following discussion focuses on emissions of odors and dust.

According to the BAAQMD CEQA Guidelines, odors are generally regarded as an annoyance rather than a health hazard.[15] Manifestations of a person's reaction to odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache). The presence of an odor impact is dependent on a number of variables including: the nature of the odor source; the frequency of odor generation; the intensity of odor; the distance of odor source to sensitive receptors; wind direction; and sensitivity of the receptor.

Due to the subjective nature of odor impacts, the number of variables that can influence the potential for an odor impact, and the variety of odor sources, quantitative analysis to determine the presence of a significant odor impact is difficult. Typical odor-generating land uses include, but are not limited to, wastewater treatment plants, landfills, and composting facilities. The proposed project would not introduce any such land uses.

Construction activities often include diesel-fueled equipment and heavy-duty trucks, which could create odors associated with diesel fumes that may be considered objectionable. However, the construction phase is temporary in nature and would only occur over approximately 15 months. In addition, hours of operation for construction equipment would be restricted pursuant to Section 16.20.035 of the Town's Municipal Code. Project construction would also be required to comply with all applicable BAAD rules and regulations, particularly associated with permitting of air pollutant sources. The aforementioned regulations would help to minimize emissions, including emissions leading to odors. Accordingly, substantial objectionable odors would not be expected to occur during construction activities.

As noted previously, all projects under the jurisdiction of BAAD are required to implement the BAAD's BCMMs. The BCMMs would act to reduce construction-related dust by ensuring that haul trucks with loose material are covered, reducing vehicle dirt track-out, and limiting vehicle speeds within the improvement area, among other methods, which would ensure that construction of the proposed project does not result in substantial emissions of dust. Following construction, the entire improvement area would be either paved or landscaped. Thus, project operations would not generate significant amounts of dust that would adversely affect a substantial number of people.

For the aforementioned reasons, construction and operation of the proposed project would not result in emissions (such as those leading to odors) adversely affecting a substantial number of people, and a ***less-than-significant*** impact would result.

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[15] Bay Area Air Quality Management District. *2022 California Environmental Quality Act Guidelines.* April 2023.

IV. BIOLOGICAL RESOURCES. *Would the project:*	Potentially Significant Impact	Less-Than-Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	☐	✖	☐	☐
b. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Wildlife or US Fish and Wildlife Service?	☐	☐	✖	☐
c. Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☐	☐	✖	☐
d. Interfere substantially with the movement of any resident or migratory fish or wildlife species or with established resident or migratory wildlife corridors, or impede the use of wildlife nursery sites?	☐	☐	✖	☐
e. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☐	✖	☐	☐
f. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, or other approved local, regional, or state habitat conservation plan?	☐	☐	☐	✖

Discussion

a. Several species of plants and animals within the State of California have low populations, limited distributions, or both. Such species may be considered “rare” and are vulnerable to extirpation as the state’s human population grows and the habitats the species occupy are converted to agricultural and urban uses. State and federal laws have provided the California Department of Fish and Wildlife (CDFW) and the U.S. Fish and Wildlife Service (USFWS) with a mechanism for conserving and protecting the diversity of plant and animal species native to the state. A sizable number of native plants and animals have been formally designated as threatened or endangered under state and federal endangered species legislation. Others have been designated as “candidates” for such listing. Still others have been designated as “species of special concern” by CDFW. The California Native Plant Society (CNPS) has developed its own set of lists of native plants considered rare, threatened, or endangered. Collectively, these plants and animals are referred to as “special-status species.” Although CDFW Species of Special Concern generally do not have special legal status, they are given special consideration under CEQA. Special-status species include the following:

- Plant and wildlife species that have been formally listed as threatened or endangered, or are candidates for such listing by the USFWS or National Marine Fisheries (NMFS);
- Plant and wildlife species that have been listed as threatened or endangered or are candidates for such listing by the CDFW;

- CDFW Species of Special Concern, which are species that face extirpation in California if current population and habitat trends continue;
- CDFW Fully Protected Species; and
- Species on CNPS Lists 1 and 2, which are considered to be rare, threatened, or endangered in California by the CNPS and CDFW.

In addition to regulations for special-status species, most birds in the U.S., including non-status species, are protected by the Migratory Bird Treaty Act (MBTA) of 1918. Under the MBTA, destroying active nests, eggs, and young is illegal.

The approximately 6.71-acre project site currently consists of orchards. The project site is located near Los Gatos Creek and the associated riparian corridor. In order to ascertain the potential for any special-status species to occur on the project site, a search for records of special-status species within the nine U.S. Geological Survey (USGS) quadrangles including and surrounding the project site was conducted through the California Natural Diversity Database (CNDDB).

The potential for special-status species to occur on the project site is discussed in further detail below.

Special-Status Plants

Special-status plants generally occur in relatively undisturbed areas within vegetation communities such as vernal pools, marshes and swamps, chenopod scrub, seasonal wetlands, riparian scrub, chaparral, alkali playa, dunes, and areas with unusual soil characteristics. Based on the results of the CNDDB query, a total of 41 special-status plant species have been identified within the project region. However, only five of the total 41 species were identified as being located within the San Jose West quadrangle, where the project site is located: hairless popcornflower (*Plagiobothrys glaber*); Hall's bushmallow (*Malacothamnus hallii*); robust spineflower (*Chorizanthe robusta* var. *robusta*); Congdon's tarplant (*Centromadia parryi* ssp. *condonii*); and saline clover (*Trifolium hydrophilum*). The project site does not include vegetation communities or sensitive habitats that could support any of the five aforementioned species, which require habitats including wetlands, such as marshes, swamps, and vernal pools, as well as coastal, woodland, and grassland habitats. Because the project site has been significantly disturbed as part of the existing orchard use, suitable habitats to support special-status plant species are not located on-site. In addition, the project site is almost entirely surrounded by existing development, which limits the opportunity for suitable habitats to support special-status plant species to be located within the project vicinity.

Based on the above, special-status plant species are not anticipated to occur within the project site, and the proposed project would not result in impacts to special-status plant species.

Special-Status Wildlife

According to the CNDDB results, 41 special-status wildlife species have previously been documented within the region. Of the 41 special-status wildlife species, the majority of the species would not have the potential to occur on-site due to the lack of suitable habitat (i.e., aquatic, riparian, woodland, and/or coastal habitat). For example, due to the lack of on-site aquatic resources, potential impacts as a result of the proposed project would not occur to special-status fish, salamander, and frog species, nor vernal pool tadpole shrimp,

as the project site does not contain requisite flowing waters or vernal pools. In addition, the project site has been subject to significant disturbance associated with the existing orchard use. The nature of the ongoing disturbance limits the site's ability to contain habitat necessary for accommodating special-status wildlife species that depend on suitable foraging habitat, such as the Zayante band-winged grasshopper, western bumblebee, or Crotch's bumblebee. Crotch's bumble bee is a candidate species for listing under CESA and is a CDFW Species of Special Concern; however, the only recorded occurrence for the species within the San Jose West quadrangle is located approximately 6.86 miles north of the site and, thus, is not anticipated to occur on-site. Therefore, although identified in the CNDDB query conducted as part of this IS/MND, the majority of the special-status species previously recorded in the area are not anticipated to be significantly impacted by the proposed project. Furthermore, the project site's surrounding development further reduces the likelihood of wildlife species, including those with special status, to occur on-site.

However, the project site is located within an area with nearby CNDDB occurrences of northwestern pond turtle (*Actinemys marmorata*).[16] The northwestern pond turtle, which is proposed as a threatened species under the ESA, was recorded by CNDDB within the Camden Ponds in Los Gatos Creek Park and portions of Los Gatos Creek further north of the park and ponds (Occurrence Numbers 1614 through 1617). The closest of the foregoing occurrences is located approximately 0.91-mile north of the project site. The CNDDB occurrences note that northwestern pond turtles were identified on top of basking logs within the pond, as well as within the riparian habitat along the creek. As discussed throughout this IS/MND, the project site is located near Los Gatos Creek and associated riparian corridor. However, both the closest recorded occurrence and Los Gatos Creek (including the associated riparian corridor and levee) are located off-site and would not be impacted by the proposed project. In addition, the unpaved portion of Fremont Court is located west of the project site, between the riparian corridor and the site, and an existing fence is located along the project site's western boundary. Such intervening development and fencing would prevent northwestern pond turtles from crossing into the project site. Further, the project site does not contain suitable foraging or nesting habitat for the species. Therefore, although identified as near the project site by the CNDDB query conducted as part of this IS/MND, northwestern pond turtle would not occur on the site and would not be significantly impacted by the proposed project.

According to the Arborist Report prepared for the proposed project (see Appendix D),[17] which was subject to peer review,[18] the project site contains a total of 375 trees, and one neighboring tree is located at the site's eastern boundary along Oka Road. Existing trees within the project site could provide potential nesting habitat for nesting migratory birds and raptors protected by the MBTA, including northern harrier, Swainson's hawk, and white-tailed kite. As part of the proposed project, all of the on-site trees would be removed. Therefore, project construction activities, including initial site grading, soil excavation, associated improvements, and/or tree removal occurring during the nesting period for migratory birds (typically between February 1 to August 31) could have the potential to result in nest abandonment or death of any live eggs or young, should migratory birds or

[16] California Department of Fish and Wildlife. *RareFind.* Available at: https://apps.wildlife.ca.gov/rarefind/view/RareFind.aspx. Accessed June 2025.

[17] Kielty Arborists Services LLC. *Oka Road, Los Gatos CA, Arborist Report 2024.* June 28, 2024.

[18] The Arborist Report was subject to peer review by Monarch Consulting Arborist (December 12, 2024). Responses to the peer review comments were provided by HMH, Urban Catalyst, Dahlin, Giacalone. Both the peer review and the responses to the peer review comments are included in Appendix D.

their nests be present within or near the project site. Such events would constitute a violation of State and federal laws, and in the event that such species occur on or near the project site during the breeding season, project construction activities could result in an adverse effect to species protected under the MBTA.

Special-status bat species generally require trees with exfoliating bark for roosting, such as the vegetation present within the Los Gatos Creek corridor. The on-site orchard trees are not anticipated to provide suitable habitat for special-status bat species due to their lack of such bark characteristics; however, the coast live oak tree north of Oka Road could be considered suitable habitat. Although unlikely, due to the proximity of potentially suitable habitat, the potential exists for special-status bat species to occur on-site. If such species occur on or near the project site, project construction activities could result in an adverse effect to special-status bat species.

Based on the above, construction activities associated with the proposed project could have an adverse effect, either directly or through habitat modifications, on wildlife species identified as special-status species in local or regional plans, policies, or regulations, or by the CDFW or the USFWS. Therefore, a ***potentially significant*** impact could result.

Mitigation Measure(s)

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

Nesting Raptors and Migratory Birds

IV-1 *If tree removal or ground disturbing activities are scheduled to commence during the breeding season (February 1st through August 31st), a pre-construction nesting bird survey shall be conducted by a qualified biologist within seven days prior to such activities to identify possible nesting activity. Survey results shall be submitted to the Town of Los Gatos Planning Division. If active nests are not found, further mitigation is not required. If one or more active nests are found, a construction-free buffer of suitable dimensions shall be established around any active raptor or migratory bird nest for the duration of the project, or until an on-site qualified biologist has determined that the chicks have fledged and are foraging independently from their parents. The buffer shall be identified on the ground with flagging or fencing. The buffer distance shall be determined by the on-site qualified biologist based on the species, level of disturbance activity, location of the nest, and the topography between the nest and the construction activity; the construction-free buffer shall consist of a minimum starting distance of 250 feet for raptors and 25 feet for other birds. Proof of compliance with this mitigation measure shall be provided to the Town of Los Gatos Planning Division.*

Special-Status Bat Species

IV-2 *Approximately 14 days prior to tree removal or structure demolition activities, a qualified biologist shall conduct a habitat assessment for bats and potential roosting sites in trees to be removed, in trees within 50 feet of the development footprint, and within and surrounding any structures that may be disturbed by the project. These surveys will include a visual inspection of potential roosting features (bats need not be present) and a*

search for presence of guano within the project site, construction access routes, and 50 feet around these areas. Cavities, crevices, exfoliating bark, and bark fissures that could provide suitable potential nest or roost habitat for bats shall be surveyed. Assumptions can be made on what species is present due to observed visual characteristics along with habitat use, or the bats can be identified to the species level with the use of a bat echolocation detector such as an "Anabat" unit. Potential roosting features found during the survey shall be flagged or marked.

If no roosting sites or bats are found, a letter report confirming absence will be prepared and no further measures are required.

If bats or roosting sites are found, a letter report and supplemental documents will be prepared prior to grading permit issuance and the following monitoring, exclusion, and habitat replacement measures will be implemented:

a. *If bats are found roosting outside of the nursery season (May 1 through October 1), they will be evicted as described under (b) below. If bats are found roosting during the nursery season, they will be monitored to determine if the roost site is a maternal roost. This could occur by either visual inspection of the roost bat pups, if possible, or by monitoring the roost after the adults leave for the night to listen for bat pups. If the roost is determined to not be a maternal roost, then the bats will be evicted as described under (b) below. Because bat pups cannot leave the roost until they are mature enough, eviction of a maternal roost cannot occur during the nursery season. Therefore, if a maternal roost is present, a 50-foot buffer zone (or different size if determined in consultation with the CDFW) will be established around the roosting site within which no construction activities including tree removal or structure disturbance will occur until after the nursery season.*
b. *If a non-breeding bat hibernaculum is found in a tree or snag scheduled for removal or on any structures scheduled to be disturbed by project activities, the individuals will be safely evicted, under the direction of a qualified bat biologist. If pre-construction surveys determine that there are bats present in any trees to be removed, exclusion structures (e.g. one-way doors or similar methods) shall be installed by a qualified biologist. The exclusion structures shall not be placed until the time of year in which young are able to fly, outside of the nursery season. Information on placement of exclusion structures shall be provided to the CDFW prior to construction.*

If needed, other methods conducted under the direction of a qualified bat biologist could include: carefully opening the roosting area in a tree or snag by hand to expose the cavity and opening doors/windows on structures, or creating openings in walls to allow light into the structures. Removal of any trees or snags and disturbance of any structures will be conducted no earlier than the following day (i.e., at least one night will be provided between initial roost eviction disturbance and tree removal/structure

disturbance). This action will allow bats to leave during dark hours, which increases their chance of finding new roosts with a minimum of potential predation.

b,c. Waters of the U.S., including wetlands, are defined under 33 Code of Federal Regulations (CFR) 328 to include navigable waterways, their tributaries, and adjacent wetlands. Wetlands are vegetated areas that meet specific vegetation, soil, and hydrologic criteria defined by the U.S. Army Corp of Engineers (USACE). Natural drainage channels and adjacent wetlands throughout the State may be considered waters of the U.S. or jurisdictional waters subject to the jurisdiction of USACE. Adjacent wetlands must have a continuous surface connection with a jurisdictional water of the U.S. such that the wetland is indistinguishable from the adjacent water. Geographically and hydrologically isolated wetlands are outside federal jurisdiction, but are regulated at the State level by Regional Water Quality Control Board (RWQCB).

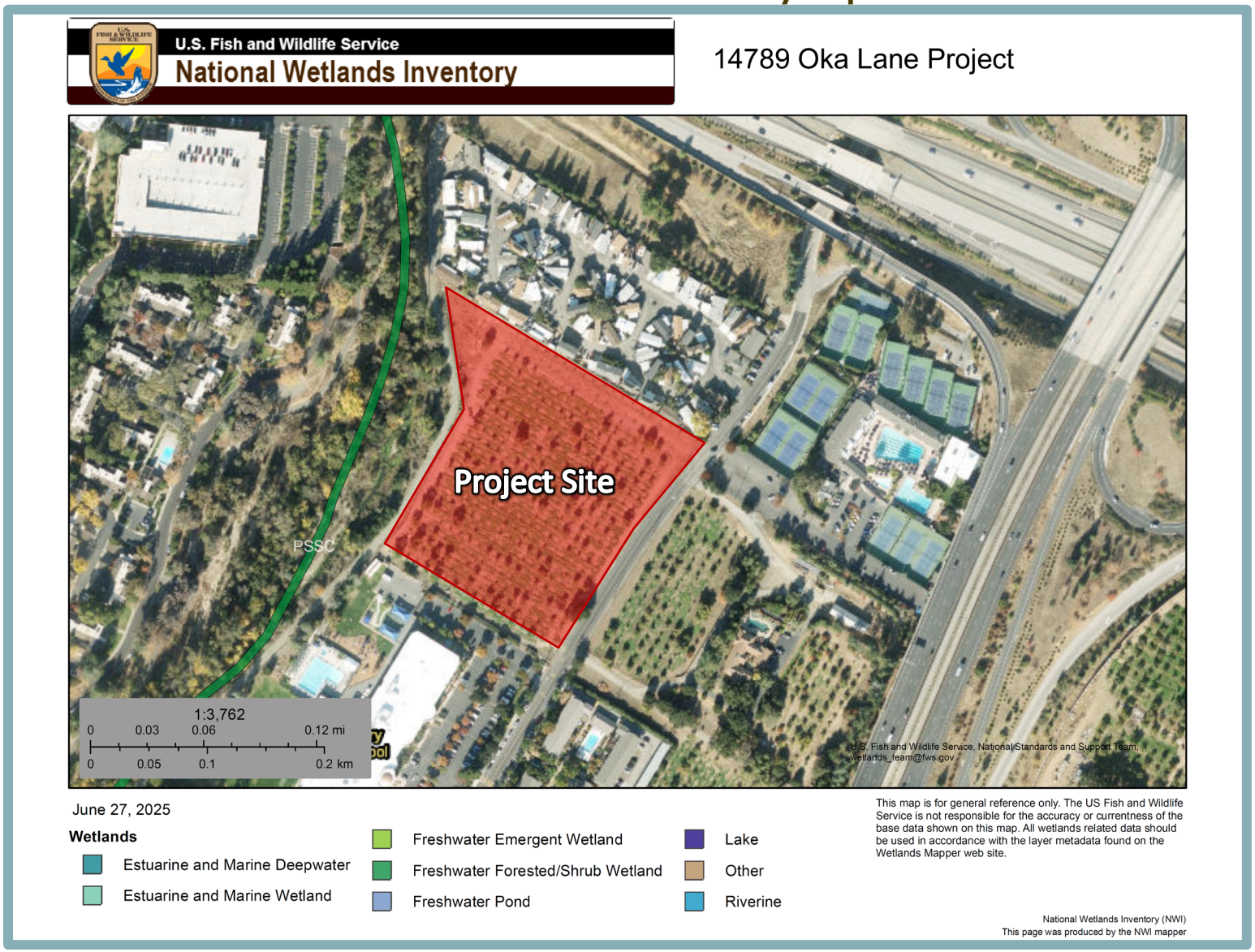
The project site currently consists of orchards. Based on a query of the USFWS National Wetlands Inventory (NWI), aquatic resources, including waters of the U.S. or other jurisdictional waters do not occur on the project site (see Figure 9). The project site does not contain riparian habitat or other sensitive natural communities that would be impacted by development of the proposed project. According to the NWI, Los Gatos Creek is designated as a Freshwater Forested/Shrub Wetland habitat and is classified as Palustrine/Scrub-Shrub/Seasonally Flooded (PSSC).

However, as discussed throughout this IS/MND, the proposed project would not impact Los Gatos Creek nor the associated riparian corridor. In addition, the project site is located more than 25 feet away from Los Gatos Creek, which would be consistent with the Town's adopted Standards and Guidelines for Land Use Near Streams.

Based on the above, the proposed project would not have a substantial adverse effect on riparian habitat or another sensitive natural community identified in local or regional plans, policies, and regulations or by the CDFW or USFWS, or on State- and federally protected wetlands, as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.). Thus, a ***less-than-significant*** impact would occur.

d. Based on the existing and surrounding uses, the project site is not within a regional movement corridor or landscape linkage and does not support any nursery sites. Wildlife species may use Los Gatos Creek and the associated riparian corridor for movement through the area; however, the project site would not interfere with the creek or corridor. In addition, an existing fence is located along the project site's western boundary, inhibiting wildlife species from using the site for movement. Therefore, the proposed project would not interfere substantially with the movement of any resident or migratory fish or wildlife species or with established resident or migratory wildlife corridors, or impede the use of wildlife nursery sites. Thus, a ***less-than-significant*** impact would occur.

Figure 9
National Wetland Inventory Map



e. Chapter 29.10 of the Town's Municipal Code comprises the Town's Tree Protection Ordinance. The applicable portion of the Town's Tree Protection Ordinance protects trees that meet the following criteria:

- All trees which have a four-inch or greater diameter (twelve and one half-inch circumference) of any trunk, when removal relates to any review for which zoning approval or subdivision approval is required.
- Any tree that existed at the time of a zoning approval or subdivision approval and was a specific subject of such approval or otherwise covered by landscape or site plans.
- Any tree that was required by the Town to be planted or retained by the terms and conditions of a development application, building permit or subdivision approval in all zoning districts, tree removal permit or code enforcement action.
- All trees, which have a four-inch or greater diameter (twelve and one half-inch circumference) of any trunk and are located on property other than developed residential property.
- All publicly owned trees growing on Town lands, public places or in a public right-of-way easement, which have a four-inch or greater diameter (twelve and one-half-inch circumference) of any trunk.
- A protected tree shall also include a stand of trees, the nature of which makes each dependent upon the other for the survival of the stand.
- The following trees shall also be considered protected trees and shall be subject to the pruning permit requirements set forth in section 29.10.0982 and the public noticing procedures set forth in section 20.10.0994:
    - Heritage trees;
    - Large protected trees.

As previously discussed, the project site contains 376 trees and the proposed project would require the removal of all but one. According to the Arborist Report and Town ordinances, a tree removal permit is not required for the removal of fruit or nut trees with diameters less than 18 inches. The majority of the trees that would require removal from the site are orchard trees and are not considered a protected tree under the Town's ordinance. For example, the majority of the English Walnut trees within the site could be removed without the approval of a permit.

Of the total on-site trees, the Arborist Report identifies the following four trees as protected: #17, #64, #374, and #375. One of the protected trees is considered a "Large Protected Tree" (#375) and one is a neighboring tree (#374). The neighboring tree #374 shall be retained; however, the other three protected trees, including the Large Protected Tree, are proposed for removal. Tree #17 is an English Walnut orchard tree with multiple trunks located in close proximity to the proposed construction activities. According to the Arborist Report, Tree #64 is an English Walnut orchard tree with an 18.3-inch trunk diameter in severe decline with dead wood, a history of limb loss, and a generally poor rating. Finally, Tree #375 is a Coast Live Oak located approximately 10 feet from Oka Road with a trunk diameter of 32 inches, standing 40 feet tall with a canopy spread of 50 feet.

According to the Arborist Report prepared for the proposed project, Tree #17's proximity to the proposed construction activities necessitates its removal, which aligns with the Town goals related to ensuring safety and preventing any interference with construction work. Similarly, Tree #64's removal is considered critical to prevent any potential hazards

related to the tree's poor health. With respect to Tree #375, removal is recommended to prevent any risk to nearby infrastructure and to comply with safety standards outlined in the Town ordinances. Specifically, the proposed removal of the Large Protected Tree would match the criteria as noted in Section 26.10.062(1) with respect to "proximity to existing or proposed structures." In other words, if Tree #375 were to be retained, a construction offset distance of 26.6 feet from the tree would be required, making the construction of a new sidewalk infeasible. Therefore, retaining Tree #375 would create an unusual hardship for the property owner by limiting the use of the property in a manner not typically experienced by owners of similarly situated properties, and the Arborist Report concluded that the removal of Tree #375 would be more appropriate.

Based on the above, the proposed project could result in the removal of on-site trees considered protected under the Town's tree protection ordinance and a ***potentially significant*** impact could occur related to conflicting with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.

Mitigation Measure(s)

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

IV-3 *Prior to approval of final project improvement plans, the project applicant shall prepare a tree replacement plan for the three protected trees being removed to comply with the Town ordinances. The plan shall include the planting of suitable native species that align with the Town's guidelines for tree replacement. The tree replacement plan shall include the following standards and requirements:*

- *All replacement trees shall be planted within six months of the removal of the protected trees, preferably during the appropriate planting season to ensure high survival rates.*
- *Newly planted trees shall receive regular watering, mulching, and protection from pests. A certified arborist shall monitor their health and provide necessary care during the first two years to ensure successful establishment.*
- *With respect to Tree #375: the tree shall be replaced with six, 24-inch box Coast Live Oaks (Quercus agrifolia). The replacement trees shall be strategically planted within the property to ensure optimal growth conditions and to restore the ecological benefits provided by the removed tree. Each replacement tree shall be placed in locations that would not interfere with existing infrastructure or future construction plans.*
- *With respect to Tree #17: the tree shall be replaced with three, 24-inch box native shade trees, such as Valley Oaks (Quercus lobata) or California Sycamores (Platanus racemosa). The foregoing species would be suitable to the local climate and would provide substantial ecological benefits. The trees shall be planted in designated areas that would allow for their full mature growth potential, ensuring the trees would not impede future development.*
- *With respect to Tree #64: the tree, which is in poor health, shall be replaced with three, 24-inch box native trees, such as Black*

Walnuts (Juglans hindsii) or California Buckeyes (Aesculus californica). The replacement trees would enhance biodiversity and provide long-term benefits to the local environment. The planting locations shall be chosen to maximize the trees' chances of thriving without conflicting with existing or planned structures.

Progress reports shall be submitted to the Town's Planning Division at regular intervals, detailing the health and growth of the replacement trees. Photos and site inspections shall accompany the reports to verify compliance with the replacement plan.

f. The project site is not located in an area that has an approved Habitat Conservation Plan, Natural Community Conservation Plan, or local, regional, or state habitat conservation plan. Therefore, the proposed project would not conflict with a Habitat Conservation Plan, Natural Conservation Community Plan, and ***no impact*** would occur.

V. CULTURAL RESOURCES. *Would the project:*	Potentially Significant Impact	Less-Than-Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?	☐	☐	☐	✖
b. Cause a substantial adverse change in the significance of a unique archaeological resource pursuant to Section 15064.5?	☐	✖	☐	☐
c. Disturb any human remains, including those interred outside of dedicated cemeteries.	☐	✖	☐	☐

Discussion

a. Historical resources are features that are associated with the lives of historically-important persons and/or historically-significant events, that embody the distinctive characteristics of a type, period, region or method of construction, or that have yielded, or may be likely to yield, information important to the pre-history or history of the local area, California, or the nation. Examples of typical historical resources include, but are not limited to, buildings, farmsteads, rail lines, bridges, and trash scatters containing objects such as colored glass and ceramics.

The Town of Los Gatos recognizes any structure or site as historic if it is located within a historic district, historically designated within the Landmark Historic Preservation (LHP) overlay, or is a primary structure constructed prior to 1941, unless the Town has specifically determined the structure has no historic significance or architectural merit.[19] The project site does not include on-site structures. In order to identify any known cultural resources, a records search of the California Historic Resources Information System (CHRIS) was performed by the Northwest Information Center (NWIC) on March 7, 2025. The CHRIS search included a review of cultural resource site records and survey reports, as well as other inventories such as the Office of Historic Preservation (OHP) Built Environment Resources Directory (BERD), which includes listings from the California Register of Historical Resources (CRHR), California State Historical Landmarks, California State Points of Historical Interest, and the National Register of Historic Places (NRHP). According to the CHRIS records search, historic resources have not been recorded within the project boundaries or within 0.25-mile of the site.

Based on the above, the proposed project would not have the potential to cause a substantial adverse change in the significance of a historic resource pursuant to CEQA Guidelines Section 15064.5, and ***no impact*** would occur.

b,c. As discussed above, a records search of the CHRIS was performed by the NWIC on March 7, 2025. According to the CHRIS records search, archaeological resources have not been recorded within the project boundaries or within 0.25-mile of the site. The Sacred Lands File (SLF) records search of the project site conducted by the Native American Heritage Commission (NAHC) on February 27, 2025, also returned negative results. Thus, based on the results of the archival review, the proposed project would not result in any impact to known cultural resources.

[19] Town of Los Gatos. *What is a Historic Resource?* Available at: https://www.losgatosca.gov/1718/Introduction-to-Historic-Preservation. Accessed October 2023.

However, the potential exists for unknown cultural resources, including human remains, to be uncovered during ground-disturbing activities for the proposed project. Such potential is known to increase based on certain site features, including proximity to bodies of water, such as Los Gatos Creek. Therefore, if previously unknown resources are encountered during construction activities, the proposed project could cause a substantial adverse change in the significance of a unique archaeological or historical resource pursuant to CEQA Guidelines Section 15064.5 and/or disturb human remains, including those interred outside of dedicated cemeteries, during construction.

General Plan Policy OSP-9.4 requires that, if cultural resources, including archaeological resources, are discovered during grading or other on-site excavation activities, construction shall stop until appropriate mitigation is implemented. Policy OSP-9.1 requires evaluation of archaeological and/or cultural resources early in the development review process through consultation with interested parties and the use of contemporary professional techniques in archaeology, ethnography, and architectural history. Policy OSP-9.2 requires that the Town ensure the preservation, restoration, and appropriate use of archaeological and/or culturally significant structures and sites. Additionally, General Plan Policy OSP-9.3 requires that any human remains discovered during implementation of public and private projects within the Town be treated with respect and dignity and fully comply with California laws that address the identification and treatment of human remains.

Compliance with 2040 General Plan Policies OSP-1 through OSP-4 would generally help ensure that work would stop if archaeological resources or human remains are identified during construction, but do not specify the appropriate course of action if such resources are discovered. As a result, without mitigation, the proposed project could cause a substantial adverse change in the significance of a unique archeological resource pursuant to CEQA Guidelines Section 15064.5, or disturb human remains, including those interred outside of dedicated cemeteries, and a ***potentially significant*** impact could occur.

Mitigation Measure(s)

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

V-1 *If historic, archaeological, or paleontological resources are encountered during subsurface excavation activities, all construction activities within a 100-foot radius of the resource shall cease until a qualified archaeologist determines whether the resource requires further study. The Town shall require that the applicant include a standard inadvertent discovery clause in every construction contract to inform contractors of this requirement. Any previously undiscovered resources found during construction shall be recorded on appropriate California Department of Parks and Recreation forms and evaluated for significance in terms of California Environmental Quality Act (CEQA) criteria by a qualified archaeologist. Potentially significant cultural resources consist of, but are not limited to, stone, bone, fossils, wood, or shell artifacts or features, including hearths, structural remains, or historic dumpsites.*

If the resource is determined to be significant under CEQA, the Town and a qualified archaeologist shall determine whether preservation in place is

feasible. Such preservation in place is the preferred mitigation. If such preservation is infeasible, the qualified archaeologist shall prepare and implement a research design and archaeological data recovery plan for the resource. The archaeologist shall also conduct appropriate technical analyses, prepare a comprehensive written report, and file the report with the appropriate information center (California Historical Resources Information System), and provide for the permanent curation of the recovered materials.

V-2 *If human remains, or remains that are potentially human, are found during construction, all work shall be halted immediately within 100 feet, and a professional archeologist shall ensure reasonable protection measures are taken to protect the discovery from disturbance. The archaeologist shall notify the Santa Clara County Coroner (pursuant to Section 7050.5 of the State Health and Safety Code). The provisions of Section 7050.5 of the California Health and Safety Code, Section 5097.98 of the California Public Resources Code, and Assembly Bill 2641 will be implemented. If the Coroner determines the remains are Native American and not the result of a crime scene, then the Coroner will notify the Native American Heritage Commission (NAHC), which then will designate a Native American Most Likely Descendant (MLD) for the project (Section 5097.98 of the Public Resources Code). The designated MLD will have 48 hours from the time access to the property is granted to make recommendations concerning treatment of the remains. If the applicant does not agree with the recommendations of the MLD, the NAHC can mediate (Section 5097.94 of the Public Resources Code). If an agreement is not reached, the qualified archaeologist or MLD must rebury the remains where they will not be further disturbed (Section 5097.98 of the Public Resources Code). This will also include either recording the site with the NAHC or the appropriate Information Center, using an open space or conservation zoning designation or easement, or recording a reinternment document with the county in which the property is located (AB 2641). Work cannot resume within the no-work radius until the lead agency, through consultation as appropriate, determines that the treatment measures have been completed to the Town's satisfaction.*

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

Discussion

a,b. The main forms of available energy supply are electricity, natural gas, and oil. A description of the 2022 California Green Building Standards Code, the Building Energy Efficiency Standards with which the proposed project would be required to comply, as well as discussions regarding the proposed project's potential effects related to energy demand during construction and operations, are provided below.

California Green Building Standards Code

The 2022 California Green Building Standards Code, otherwise known as the CALGreen Code (CCR Title 24, Part 11), is a portion of the California Building Standards Code (CBSC), which became effective with the rest of the CBSC on January 1, 2023.[20] The purpose of the CALGreen Code is to improve public health, safety, and general welfare by enhancing the design and construction of buildings through the use of building concepts having a reduced negative impact or positive environmental impact and encouraging sustainable construction practices. The provisions of the code apply to the planning, design, operation, construction, use, and occupancy of every newly constructed building or structure throughout California. Requirements of the CALGreen Code include, but are not limited to, the following measures:

- Compliance with relevant regulations related to future installation of EV charging infrastructure in residential and non-residential structures;
- Indoor water use consumption is reduced through the establishment of maximum fixture water use rates;
- Outdoor landscaping must comply with the California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), or a local ordinance, whichever is more stringent, to reduce outdoor water use;
- Diversion of 65 percent of construction and demolition waste from landfills;
- Incentives for installation of electric heat pumps, which use less energy than traditional heating, ventilation, and air conditioning (HVAC) systems and water heaters;
- Required solar photovoltaic (PV) system and battery storage standards for certain buildings; and
- Mandatory use of low-pollutant emitting interior finish materials such as paints, carpet, vinyl flooring, and particle board.

Building Energy Efficiency Standards

The 2022 Building Energy Efficiency Standards is a portion of the CBSC, which expands upon energy-efficiency measures from the 2019 Building Energy Efficiency Standards,

[20] California Building Standards Commission. *2022 California Green Building Standards Code*. 2023.

went into effect starting January 1, 2023. The 2022 standards provide for additional efficiency improvements beyond the 2019 standards. 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 and Building Energy Efficiency Standards would ensure that the future residential structures would consume energy efficiently.

Construction Energy Use

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 site where energy supply cannot be met through 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 would be disturbed at a time, with operation of construction equipment occurring at different locations on the project site, rather than a single location. Project construction would not involve the use of natural gas appliances or equipment.

All construction equipment and operation thereof would be regulated by the CARB's 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, heavy-duty 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. In addition, as a means of reducing emissions, construction vehicles are required to become cleaner through the use of renewable energy resources. The In-Use Off-Road Diesel Vehicle Regulation would therefore help to improve fuel efficiency for equipment used in construction of the proposed project. Technological innovations and more stringent standards are being researched, such as multi-function equipment, hybrid equipment, or other design changes, which could help to further reduce demand on oil and limit emissions associated with construction.

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 Energy Use

Following implementation of the proposed project, PG&E would provide electricity to the project site. Energy use associated with operation of the future on-site residences would be typical of residential uses, requiring electricity for interior and exterior building lighting, HVAC, electronic equipment, refrigeration, appliances, and more. Maintenance activities during operations, such as landscape maintenance, would involve the use of electric or gas-powered equipment. In addition to on-site energy use, operation of the future on-site

residences would result in transportation energy use associated with vehicle trips generated by future residents and visitors.

According to the AQ/GHG Assessment prepared for the proposed project, the project applicant has confirmed that the proposed buildings will be all electric and natural gas would not be used during project operation.[21] All future residences on-site would be subject to all relevant provisions of the most recent update of the CBSC, including the Building Energy Efficiency Standards and CARB standards, which would ensure that the future residences would be designed to be energy efficient to the maximum extent practicable. Adherence to the most recent CAL Green Code and the Building Energy Efficiency Standards would ensure that all development on-site would consume energy efficiently through the incorporation of such features as efficient water heating systems, high performance attics and walls, and high efficacy lighting. In addition, State regulations promote the generation of renewable energy and encourage energy efficiency through requirements placed on utility providers and strict development standards. For instance, the Renewables Portfolio Standard (RPS) requires utilities, including PG&E, to procure an increasing proportion of electricity from renewable sources. Ultimately the RPS requirements mandate that all electricity produced within the State be renewably sourced by the year 2045.

With regard to transportation energy use, California leads the nation in registered alternatively-fueled and hybrid vehicles. In fact, under SB 500, the State has required that, starting in the year 2030, all cars sold shall be zero-emission/electric vehicles. In addition, State-specific regulations encourage fuel efficiency and reduction of dependence on oil. Improvements in vehicle efficiency and fuel economy standards help to reduce consumption of gasoline and reduce the State's dependence on petroleum products. In addition, the CBSC requires new developments to include the necessary electrical infrastructure for EV charging stations. The proposed project would comply with all applicable regulations associated with vehicle efficiency and fuel economy. In addition, as discussed in Section XVII, Transportation, of this IS/MND, future on-site development is not anticipated to substantially increase vehicle miles traveled (VMT) within the area.

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, a ***less-than-significant*** impact would occur.

[21] Illingworth & Rodkin, Inc. *Oka Road Development Air Quality & Greenhouse Gas Assessment* [pg. 13]. January 14, 2025.

VII. GEOLOGY AND SOILS. *Would the project:*	Potentially Significant Impact	Less-Than-Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	☐	☐	✖	☐
ii. Strong seismic ground shaking?	☐	☐	✖	☐
iii. Seismic-related ground failure, including liquefaction?	☐	✖	☐	☐
iv. Landslides?	☐	✖	☐	☐
b. Result in substantial soil erosion or the loss of topsoil?	☐	☐	✖	☐
c. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	☐	✖	☐	☐
d. Be located on expansive soil, as defined in Table 18-1B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	☐	☐	✖	☐
e. Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?	☐	☐	☐	✖
f. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☐	✖	☐

Discussion

The following discussion is based primarily on a Geotechnical Investigation prepared by Cornerstone Earth Group (see Appendix E).[22]

ai-ii. According to the Geotechnical Investigation prepared for the project site, the project site is not located upon a known active fault or active fault trace, and is not located within a State-designated Alquist-Priolo Fault Zone.[23] The nearest active fault to the project site is the Monte Vista-Shannon Fault, located approximately 0.7-mile from the site. Several other faults are also located in the project region, including the San Andreas, Sargent, Zayante-Vergeles, Hayward, and Calaveras faults. Surface expression of fault traces are not known to cross the site; therefore, fault surface rupture hazard is not a significant geologic hazard at the site.

Although the project site would not be subject to fault rupture hazards, moderate to severe earthquakes could cause strong ground shaking at the site, which is the case for most sites within the Bay Area. Due to the site's proximity to active faults in the region, such as the San Andreas Fault system and the Hayward and Calaveras Fault systems, the potential exists for the proposed buildings to be subject to seismic ground shaking. However, all structures developed as part of the proposed project would be required to be

[22] Cornerstone Earth Group. *Geotechnical Investigation.* February 25, 2025.
[23] *Ibid.*

built in accordance with the CBSC, which provides minimum standards to ensure that structures are designed using sound engineering practices and appropriate engineering standards for the seismic area in which the project site is located. Projects designed in accordance with the CBSC should be able to: 1) resist minor earthquakes without damage; 2) resist moderate earthquakes without structural damage, but with some non-structural damage; and 3) resist major earthquakes without collapse, but with some structural, as well as non-structural, damage. Although conformance with the CBSC does not guarantee that substantial structural damage would not occur in the event of a maximum magnitude earthquake, conformance with the CBSC can reasonably be assumed to ensure that the proposed structure would be survivable, allowing occupants to safely evacuate in the event of a major earthquake.

Based on the above, a ***less-than-significant*** impact would occur related to seismic surface rupture and strong seismic ground shaking.

aiii,aiv, c. The proposed project's potential effects related to liquefaction, subsidence/settlement, landslides, and lateral spreading are discussed in detail below.

Liquefaction and Subsidence/Settlement

Soil liquefaction results from loss of strength during cyclic loading, especially as a result of cyclic loadings induced by earthquakes or ground shaking. Soils most susceptible to liquefaction are clean, loose, saturated, uniformly graded fine sands. In addition, loose, unsaturated sandy soils can settle during strong seismic shaking. Subsidence is the settlement of soils of very low density, generally from either oxidation of organic material, desiccation and shrinkage, or both, following drainage. Subsidence takes place gradually, usually over a period of several years, and is a common consequence of liquefaction.

Based on the Geotechnical Investigation, the project site is located within a State-designated liquefaction hazard zone, as well as a Santa Clara County liquefaction hazard zone. As part of the Geotechnical Investigation, the on-site soil layers were analyzed for liquefaction triggering and potential post-liquefaction settlement. Three borings were drilled on August 16, 2024, and five Cone Penetration Tests (CPTs) were conducted on August 12, 2024. The CPT samples were tested for potentially liquefiable layers to depths of 47.5 feet (where the CPTs encountered drilling refusal) and were subject to visual classification on sampled materials as well as other various tests to further classify soil properties. Based on the analysis of the on-site soils, the Geotechnical Investigation concluded that several layers could potentially experience liquefaction that could then result in a maximum post-liquefaction settlement of 0.75-inch. However, based on an existing cap of non-liquefiable material, ground deformation and significant surficial cracking are not anticipated to occur on-site.

With respect to settlement, the potential for seismic compaction of the on-site loose to medium dense sands was evaluated as part of the Geotechnical Investigation. Based on the borings and site observations, the upper one to two feet of the ground surface is anticipated to be loosened or disturbed by tilling and other agricultural activities. The additional disturbance associated with the removal of the existing orchard trees is anticipated to result in large voids where the roots are currently present. If left in place, the surficial soils could result in settlement under new improvements including buildings and pavement areas. Specifically, the proposed buildings could experience approximately 1.50 to 1.66 inches of movement within the northern half of the site after strong seismic shaking (where loose to medium dense sands were encountered within the upper four to

10 feet of soils). Buildings within the southern portion of the site could experience approximately 0.66-inch, or less, of movement. The Geotechnical Investigation recommends the removal of surficial soil and replacement of such soils with engineered fill, as described in Section 6 of the report (see Appendix E).

Based on the above, the proposed project could directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death associated with seismic-related ground failure, including liquefaction and subsidence/settlement.

Landslides

Seismically induced landslides are triggered by earthquake ground shaking. The risk of landslide hazard is greatest in areas with steep, unstable slopes. The project site is relatively flat and does not contain slopes. Therefore, the proposed project would not be subject to substantial landslide risks.

Lateral Spreading

Lateral spreading is horizontal/lateral ground movement of relatively flat-lying soil deposits towards a free face such as an excavation, channel, or open body of water; typically, lateral spreading is associated with liquefaction of one or more subsurface layers near the bottom of the exposed slope. The amount of movement depends on the soil strength, duration and intensity of seismic shaking, topography, and free face geometry.

The Los Gatos Creek runs along the western edge of the site (parallel to Fremont Court). Based on elevations provided by Google Earth, the channel bottom is at an approximate elevation of 258 feet. Therefore, the channel bottom is approximately seven to nine feet deep relative to existing site grades within the lower portion of the site. Based on the calculations conducted as part of the Geotechnical Investigation, estimated displacements in the vicinity of the CPT locations were considered negligible. In addition, the literature review conducted as part of the Geotechnical Investigation did not identify occurrences of lateral spread within the site vicinity. Overall, the potential for lateral spreading to pose a risk to the proposed project is considered low.

Conclusion

Based on the above discussion, without proper implementation of the recommendations included in the Geotechnical Investigation prepared for the proposed project, the proposed project could result in potential hazards or risks related to liquefaction, subsidence, and/or settlement, and a ***potentially significant*** impact could occur.

Mitigation Measure(s)

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

VII-1 *Prior to approval of any building permits, the project Civil Engineer shall show on the project plans that the project design adheres to all engineering recommendations provided in the site-specific Geotechnical Investigation prepared for the proposed project by Cornerstone Earth Group to ensure that the recommended standards are incorporated into the project design and construction, including all relevant CBSC standards, to the satisfaction of the Town's Engineer. Such recommendations shall include, but are not limited to, the following:*

- *Foundations shall be designed to tolerate the anticipated total and differential settlements, consistent with Section 8: Foundations, of the Geotechnical Investigation;*
- *Surficial soils underlying on-site locations intended for project improvements, including buildings and pavement areas, shall be removed to avoid settlement;*
- *The removed surficial soils shall be replaced with engineered fill, consistent with Section 6: Earthwork, of the Geotechnical Investigation; and*
- *Compliance with all applicable 2022 California Building Code (CBC) standards shall be required, as detailed in Section 7 of the Geotechnical Investigation.*

All grading and project improvement plans shall be reviewed by a licensed engineer and approved by the Town of Los Gatos Building Division and the Parks and the Town of Los Gatos Engineering Division.

b. Issues related to erosion are discussed in Section X, Hydrology and Water Quality, of this IS/MND. As noted therein, Mitigation Measure X-1 requires the preparation and implementation of an erosion and sediment control plan. Thus, implementation of Mitigation Measure X-1 would ensure the proposed project does not result in substantial soil erosion or the loss of topsoil. Therefore, the proposed project would not result in substantial soil erosion or the loss of topsoil, and a ***less-than-significant*** impact would occur.

d. Expansive soils are soils which undergo significant volume change with changes in moisture content. Specifically, such soils shrink and harden when dried and expand and soften when wetted, potentially resulting in damage to building foundations. As part of the Geotechnical Investigation, plasticity index tests were conducted on soil samples from the project site to determine the expansion potential of surficial soils. The results of the tests indicated a plasticity index of 13, which indicates low expansion potential. Therefore, the proposed project would not result in potential hazards or risks related to expansive soils, and a ***less-than-significant*** impact would occur.

e. As previously discussed, sewer service would be provided through new connections to existing lines within the project vicinity. Specifically, the project would connect to the existing 20-inch sewer line within Oka Road. Thus, the construction or operation of septic tanks or other alternative wastewater disposal systems is not included as part of the project. Therefore, ***no impact*** regarding the capability of soil to adequately support the use of septic tanks or alternative wastewater disposal systems would occur.

f. According to the Town's General Plan EIR, based on the Society of Vertebrate Paleontology's system for assessing paleontological sensitivity, the soils within the Town have a high potential to yield paleontological resources. However, the site has undergone previous ground disturbance associated with existing agricultural activities. In addition, implementation of General Plan Policy ENV-12.5, which requires that construction stop until appropriate mitigation is implemented if paleontological resources are uncovered during grading or other on-site excavation activities, would help ensure the protection of uncovered paleontological resources. In addition, the proposed project would be required to implement Mitigation Measure V-1, which would further reduce any potential impacts to

unknown paleontological resources that are uncovered during project construction. Therefore, the proposed project would not directly or indirectly destroy a unique paleontological resource or site or unique geologic feature, and a ***less-than-significant*** impact would occur.

VIII. GREENHOUSE GAS EMISSIONS. *Would the project:*	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	✖	☐
b. Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gasses?	☐	☐	✖	☐

Discussion

a,b. Emissions of GHGs contributing to global climate change are attributable in large part to human activities associated with the industrial/manufacturing, utility, transportation, residential, and agricultural sectors. Therefore, the cumulative global emissions of GHGs contributing to global climate change can be attributed to every nation, region, and city, and virtually every individual on Earth. An individual project's GHG emissions are at a micro-scale level relative to global emissions and effects to global climate change; however, an individual project could result in a cumulatively considerable incremental contribution to a significant cumulative macro-scale impact. As such, impacts related to emissions of GHG are inherently considered cumulative impacts.

Implementation of the proposed project would cumulatively contribute to increases of GHG emissions. Estimated GHG emissions attributable to future development would be primarily associated with increases of carbon dioxide (CO_2) and, to a lesser extent, other GHG pollutants, such as methane (CH_4) and nitrous oxide (N_2O) associated with area sources, mobile sources or vehicles, utilities (electricity and natural gas), water usage, wastewater generation, and the generation of solid waste. The primary source of GHG emissions for the project would be mobile source emissions. The common unit of measurement for GHG is expressed in terms of annual metric tons of CO_2 equivalents ($MTCO_2e$/yr).

The proposed project is located within the jurisdictional boundaries of BAAD. The most recent district Air Quality Guidelines were released in April 2023.[24] The updated GHG thresholds address more recent climate change legislation, including SB 32, and provide qualitative thresholds related to Buildings and Transportation.

Construction GHG emissions are a one-time release and are, therefore, not typically expected to generate a significant contribution to global climate change. Neither the Town nor BAAD has an adopted threshold of significance for construction-related GHG emissions and does not require quantification. Nonetheless, the proposed project's construction GHG emissions, as well as operational emissions, have been estimated using CalEEMod under the same assumptions discussed in Section III, Air Quality, of this IS/MND (see Appendix B). The emissions estimates prepared for the proposed project determined that unmitigated construction of the project would result in total GHG emissions of 529 $MTCO_2e$ over the entire construction period.

Operational GHG emissions are presented in Table 4. As noted previously, the BAAD's applicable threshold of significance for GHG emissions are qualitative, and the foregoing information is provided for disclosure purposes only. Potential impacts related to GHG

[24] Bay Area Air Quality Management District. *2022 California Environmental Quality Act Guidelines*. April 2023.

emissions resulting from implementation of the proposed project are considered in comparison with BAAD's adopted thresholds of significance below.

Table 4
Unmitigated Operational GHG Emissions

Source	GHG Emissions ($MTCO_2e$/yr)
Mobile	893
Area	2
Energy Consumption	2
Water Usage	3
Solid Waste Generation	32
Refrigerants	<1
Total Operational GHG Emissions	**932**

Source: Illingworth & Rodkin, April 2025 (see Appendix B).

BAAD Thresholds of Significance

According to the BAAD thresholds of significance, a project must either include specific project design elements (e.g., exclude use of natural gas, achieve a specific reduction in project-generated VMT below the regional average) or be consistent with a local GHG reduction strategy that meets the criteria under State CEQA Guidelines Section 15183.5(b).[25]

In October 2012, the Town of Los Gatos adopted a Sustainability Plan to ensure the Town's compliance with statewide GHG reduction goals. The Sustainability Plan includes emissions reduction targets for the Town, as well as reduction strategies. However, given that the Sustainability Plan was adopted prior to the passing of SB 32, the following analysis focuses on the new BAAD GHG thresholds related to specific project design elements.

Compliance with BAAD Thresholds of Significance

According to the BAAD's new requirements, in order to find a less-than-significant GHG impact, projects must include, at a minimum, the following project design elements:

- The project will not include natural gas appliances or natural gas plumbing (in both residential and nonresidential development);
- The project will not result in any wasteful, inefficient, or unnecessary energy usage as determined by the analysis required under CEQA Section 21100(b)(3) and Section 15126.2(b) of the State CEQA Guidelines;
- The project will achieve a reduction in project-generated VMT below the regional average consistent with the current version of the California Climate Change Scoping Plan (currently 15 percent) or meet a locally adopted Senate Bill 743 VMT target, reflecting the recommendations provided in the Governor's Office of Land Use and Climate Innovation's (LCI) (formerly the Office of Planning and Research) Technical Advisory on Evaluating Transportation Impacts in CEQA; and
- The project will achieve compliance with off-street electric vehicle requirements in the most recently adopted version of CALGreen Tier 2.

[25] Bay Area Air Quality Management District. *2022 California Environmental Quality Act Guidelines.* April 2023.

In order to be consistent with the first criterion, the proposed project is required to include all electric appliances and plumbing. As previously discussed, the project applicant has confirmed that the proposed buildings will be all electric.[26]

Regarding the second criterion, as discussed in Section VI, Energy, of this Initial Study, the proposed project would comply with all applicable federal, State, and local regulations regarding energy use during both project construction and project operations. Required compliance with applicable standards and regulations ensure that the building energy use associated with the proposed project would not be wasteful, inefficient, or unnecessary.

With respect to the third criterion, as discussed in Section XVII, Transportation, of this IS/MND, the proposed project would result in a less-than-significant VMT impact.

With respect to the fourth criterion, according to the AQ/GHG Assessment prepared for the proposed project, on-site parking would meet the CALGreen Tier 2 compliance standards by equipping each garage unit with EV charging infrastructure. In addition, the guest parking within the project site would include two EV Capable and eight EV Ready spaces.

Conclusion

Based on the above, the proposed project would not be considered to generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment, or conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs. Therefore, a ***less-than-significant*** impact would occur.

[26] Illingworth & Rodkin, Inc. *Oka Road Development Air Quality & Greenhouse Gas Assessment* [pg. 13]. January 14, 2025.

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

Discussion

a. Residential uses are not typically associated with the routine transport, use, disposal, or generation of substantial amounts of hazardous materials. Maintenance and operation of the future on-site residences may use common household cleaning products, fertilizers, and herbicides on-site, any of which could contain potentially hazardous chemicals; however, such products would be expected to be used in accordance with label instructions. Due to the regulations governing use of such products and the limited amount anticipated to be used on the site, routine use of such products would not represent a substantial risk to public health or the environment. Therefore, the project would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials, and a ***less-than-significant*** impact would occur.

b. The proposed project's potential effects related to construction activities and/or the likely release of hazardous materials into the environment through existing site conditions are discussed in detail below.

Construction Activities

Construction activities associated with the proposed project would involve the use of heavy equipment, which would contain fuels and oils, and various other products such as concrete, paints, and adhesives. Small quantities of potentially toxic substances (e.g., petroleum and other chemicals used to operate and maintain construction equipment) would be used at the project site and transported to and from the site during construction. However, the project contractor would be required to comply with all California Health and

Safety Codes regulating the handling, storage, and transportation of hazardous and toxic materials. Pursuant to California Health and Safety Code Section 25510(a), except as provided in subdivision (b), the handler or an employee, authorized representative, agent, or designee of a handler, shall, upon discovery, immediately report any release or threatened release of a hazardous material to the unified program agency (in the case of the proposed project, the Santa Clara County Department of Environmental Health) in accordance with the regulations adopted pursuant to Section 25510(a). The handler or an employee, authorized representative, agent, or designee of the handler shall provide all State, city, or county fire or public health or safety personnel and emergency response personnel with access to the handler's facilities. In the case of the proposed project, the contractors are required to notify the Santa Clara County Department of Environmental Health in the event of an accidental release of a hazardous material, who would then monitor the conditions and recommend appropriate remediation measures.

Overall, although construction of the proposed project would involve regulated use of hazardous materials, the project contractor would be required to adhere to all relevant guidelines and ordinances regulating the handling, storage, and transport of hazardous materials. Therefore, the proposed project would not create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the likely release of hazardous materials into the environment during project construction activities.

Existing Project Site Conditions

The following discussion is based primarily on a Phase I Environmental Site Assessment (ESA)[27] and Limited Phase II Soil Investigation Report (Phase II Report)[28] prepared for the proposed project by AEI Consultants (AEI) (see Appendices F and G). The objective of the Phase I ESA prepared for the proposed project was to identify potential Recognized Environmental Conditions (RECs), as defined by the American Society for Testing and Materials (ASTM). The ASTM Standard E1527-05 defines an REC as the presence or likely presence of hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The Phase I ESA included a survey of the site and a review of historical documentation, aerial photography, regulatory agency files, and environmental site radius reports.

The Phase I ESA prepared for the proposed project did not identify any existing on-site RECs. However, the Phase I ESA did identify an environmental issue of concern, which is an issue that does not qualify as RECs but does warrant further discussion. Specifically, due to the site's historic agricultural use, on-site soils have the potential for soil contamination from arsenic and organochlorine pesticides (OCPs) from the use of pesticides and fertilizers. According to the Phase I ESA, the routine application of pesticides and fertilizers is not considered a release, and evidence of spilling, dumping, emitting, and/or mishandling of such materials was not identified. The Phase I ESA concluded that, while the former agricultural uses do not represent a REC, any applied pesticides could have the potential for residual impacts and, thus, soil sampling should be conducted.

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27 AEI Consultants. *Phase I Environmental Site Assessment*. June 27, 2024.
28 AEI Consultants. *Limited Phase II Soil Investigation Report*. August 1, 2024.

Based on the recommendations included in the Phase I ESA, a Phase II Report was prepared to evaluate shallow surface soils for OCPs and arsenic associated with the site's historical and existing agricultural uses. The Phase II Report included the collection of 14 soil samples in accordance with Department of Toxic Substances Control (DTSC) guidance from approximately six inches below ground surface, and subsequent laboratory analysis of the samples in accordance with USEPA testing methods. Four discrete soil samples were analyzed for arsenic and the remaining 10 samples were composited into four composite samples analyzed for OCPs. The OCP analysis included testing for common persistent pesticides, including Dichlorodiphenyltrichloroethane (DDT), Dichlorodiphenyldichlorethylene (DDE), Dichlorodiphenyldichloroethane (DDD), chlordane, and dieldrin, among others. The concentrations detected in the soil samples were then compared to the applicable regulatory health risk-based environmental screening levels (ESLs) set by the San Francisco RWQCB.

According to the Phase II Report, the majority of the OCPs were not detected at concentrations above the laboratory method detection limits. DDE and DDT were detected as part of the laboratory testing with concentrations of 0.0197 milligrams per kilogram (mg/kg) and 0.0078 mg/kg, respectively. Such levels are below the respective residential ESLs of 1.8 mg/kg and 1.9 mg/kg. Arsenic was detected in each of the four discrete samples, with the maximum concentration of 7.70 mg/kg. While the detected levels of arsenic exceed the applicable residential ESL, the Phase II Report notes that the detected levels are below the maximum naturally occurring background concentrations of arsenic found naturally within soils throughout the State (11.0 mg/kg). Therefore, the Phase II Report concluded that additional environmental investigation is not warranted, and the site is appropriate for residential use.

Conclusion

Based on the above, the proposed project would not create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the likely release of hazardous materials into the environment, and a ***less-than-significant*** impact would occur.

c. The nearest school is a preschool located within the Jewish community center, which is within 100 feet of the southern project site boundary. Although the project site is located within 0.25-mile of an existing school, as discussed under questions 'a' and 'b' above, development of the proposed project would not result in any significant hazards related to the use, transport, disposal, or upset of hazardous materials. Additionally, the project contractor would be required to comply with all California Health and Safety Codes and local County and Town ordinances regulating the handling, storage, and transportation of hazardous and toxic materials. Therefore, the proposed project would result in a ***less-than-significant*** impact related to hazardous emissions or the handling of hazardous or acutely hazardous materials, substances, or waste within 0.25-mile of an existing or proposed school.

d. The California Environmental Protection Agency (Cal EPA) has compiled a list of data resources that provide information regarding the facilities or sites identified as meeting the "Cortese List" requirements, pursuant to Government Code 65962.5. The components of the Cortese List include the DTSC Hazardous Waste and Substances Site List,[29] the list

[29] Department of Toxic Substances Control. *EnviroStor.* Available at: https://www.envirostor.dtsc.ca.gov/public/. Accessed April 2025.

of leaking underground storage tank (UST) sites from the State Water Resources Control Board (SWRCB's) GeoTracker database,[30] the list of solid waste disposal sites identified by the SWRCB, and the list of active Cease and Desist Orders (CDO) and Cleanup and Abatement Orders (CAO) from the SWRCB.[31]

The project site is not included on the DTSC Hazardous Waste and Substances Site List, SWRCB's list of solid waste disposal sites, list of leaking UST sites, or list of active CDO and CAO. Therefore, the proposed project would not create a significant hazard to the public or the environment related to being located on a site which is included on a list of hazardous materials compiled pursuant to Government Code Section 65962.5, and ***no impact*** would occur.

e. The project site is not within an airport land use plan, within two miles of a public airport, or near a private landing strip. The nearest airport to the project site is the San Jose International Airport, located approximately 7.08 miles north of the site. Therefore, ***no impact*** related to a safety hazard for people residing or working in the project area related to such would occur.

f. The Town's Emergency Operation Plan (EOP) identifies potential threats and outlines response protocols and procedures.[32] According to the EOP, evacuations are considered most likely in response to a dam failure or wildfire. In general, during emergencies, major roads, highways, hospitals, and fire stations are important to the initial response of the Town. Additionally, schools, churches, and community centers are frequently used as assembly points for displaced people or for distribution of emergency supplies.

The Santa Clara County Fire Department (SCCFD) has also adopted Genasys Protect (formerly known as Zonehaven) to provide specific, timely, and accurate information regarding evacuations within the County. Genasys Protect divides geographic regions into smaller zones to help simplify evacuations. In the event of a public safety emergency, fire department and law enforcement agencies would issue evacuation orders and other protective actions for impacted areas. Genasys Protect is a web-based platform that provides real-time evacuation updates. The project site is located within Zone LGA-002, which includes the area north of Blossom Hill Road, south of SR 85, east of Winchester Boulevard, and west of SR 17.[33]

Construction of the proposed project would not result in any substantial modifications to the existing roadway system and, thus, would not physically interfere with the EOP, particularly with any emergency evacuation routes. In addition, the proposed project would not include land uses or operations that could impair implementation of the plan. Therefore, the proposed project would not interfere with an emergency evacuation or response plan, and ***no impact*** would occur.

g. Issues related to wildfire hazards are discussed in Section XX, Wildfire, of this IS/MND. As noted therein, the project site is not located within a Very High Fire Hazard Severity

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30 State Water Resources Control Board. *GeoTracker.* Available at: https://geotracker.waterboards.ca.gov/map/. Accessed April 2025.

31 CalEPA. *Cortese List Data Resources*. Available at: https://calepa.ca.gov/sitecleanup/corteselist/. Accessed April 2025.

32 Town of Los Gatos. *Emergency Operation Plan*. 2015.

33 Protect Genasys. *Genasys Protect*. Available at: https://protect.genasys.com/zones/US-CA-XSC-LGA-002. Accessed November 2025.

Zone (FHSZ) or a State Responsibility Area (SRA).[34] In addition, the proposed project would be required to comply with all applicable requirements of the California Fire Code (CFC) through the installation of fire sprinkler systems, fire hydrants, and other applicable requirements. The proposed project would also be situated near existing roads, water lines, and other utilities, which would reduce risks related to wildfire. Thus, the potential for wildland fires to reach the project site would be limited. Based on the above, the proposed project would have a ***less-than-significant*** impact related to exposing people or structures to the risk of loss, injury or death involving wildland fires.

[34] California Department of Forestry and Fire Protection. *FHSZ Viewer*. Accessed February 2022.

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

Discussion

a, ci-ciii. The following discussion provides a summary of the proposed project's potential to violate water quality standards/waste discharge requirements, substantially alter the drainage pattern of the site resulting in erosion or siltation, substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site, contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems, or otherwise substantially degrade water quality during construction and operation. Information was sourced primarily from a Stormwater Management Plan (see Appendix H)[35] and a summary of preliminary stormwater quality and hydromodification control measures modeling (Modeling Summary) prepared for the proposed project by Balance Hydrologics (see Appendix I).[36] A peer review of the project materials for compliance with stormwater requirements was conducted by EOA Inc., Environmental and Public Health Engineering (EOA). All aforementioned reports were also reviewed by the Town Parks and Public Works Department for accuracy and adequacy.

Construction

During the early stages of construction activities, fill soils would be imported to the site and topsoil would be exposed during ground disturbance. Prior to overlaying the ground

[35] HMH. *Stormwater Management Plan for 14789 Oka Road, Los Gatos, CA.* August 14, 2025.
[36] Balance Hydrologics. *Updated Summary of Preliminary C3 Modeling for the 14789 Oka Road Project, Town of Los Gatos.* August 15, 2025.

surface with impervious surfaces and structures, the potential exists for wind and water erosion to discharge sediment and/or urban pollutants into stormwater runoff, which could adversely affect water quality downstream.

The SWRCB regulates stormwater discharges associated with construction activities where clearing, grading, or excavation results in a land disturbance of one or more acres. The Town's National Pollutant Discharge Elimination System (NPDES) permit requires applicants to show proof of coverage under the State's General Construction Permit prior to receipt of any construction permits. The State's General Construction Permit requires a Storm Water Pollution Prevention Plan (SWPPP) to be prepared for the site. A SWPPP describes Best Management Practices (BMPs) to control or minimize pollutants from entering stormwater and must address both grading/erosion impacts and non-point source pollution impacts of the development project. Because the proposed project would disturb greater than one acre of land, the proposed project would be subject to the requirements of the State's General Construction Permit.

In addition, the project would be required to comply with Chapter 12, Grading, Erosion, and Sediment Control, of the Town's Municipal Code, which includes standards for managing stormwater runoff during construction and operation. Pursuant to Section 12.20.050, approval of an erosion and sediment control plan by the Town Engineer is required for new development projects within the Town of Los Gatos. An erosion and sediment control plan would include measures such as an effective revegetation program to stabilize all disturbed areas which would not be otherwise protected, and would comply with the recommendations of the civil engineer, geotechnical engineer, engineering geologist, or landscape architect involved in preparation of the grading plans, as well as any and all standards and specifications adopted by the Town Engineer for the control of erosion and sedimentation on grading sites. Further, the existing levee on the east bank of Los Gatos Creek, which is located west of the project site, is fairly high (approximately four to five feet above ground). Therefore, the height of the levee would temporarily inhibit any transport of sediment from the project site into Los Gatos Creek during construction. See below for further details regarding flooding potential during project operations.

Overall, because an erosion and sediment control plan has not yet been prepared for the proposed project, proper compliance with the aforementioned regulations cannot be ensured at this time, and the proposed project could discharge sediment or urban pollutants through soil erosion, violate water quality standards or waste discharge requirements, or otherwise substantially degrade surface or ground water quality during construction.

Operation

Following site development, disturbed areas of the site would be largely covered with impervious surfaces and topsoil would no longer be exposed. However, the proposed project would include regular vehicle trips to and from the future residential buildings. Vehicles could release contaminants onto the impervious surfaces, such as pollutants from oil and grease, metals, organics, pesticides, sediment, trash, and other debris due to leaks and maintenance activities. During the dry season, such contaminants would accumulate until the first storm event, during which the concentrated pollutants would be transported by way of stormwater runoff from the site to the stormwater drainage system and eventually a downstream waterway. In addition, stormwater runoff could cause soil erosion if not properly addressed, which would provide a more lucrative means of transport for pollutants to enter the waterways.

All municipalities within Santa Clara County (and the County itself) are required to develop more restrictive surface water control standards for new development projects as part of the renewal of the Countywide NPDES permit. The Town of Los Gatos has adopted the County C.3 Stormwater Standards, which require new development and redevelopment projects that create or alter 5,000 or more sf of impervious area to contain and treat all stormwater runoff from the project site. The proposed project is anticipated to create or alter approximately 197,989 sf of post-project impervious area. Thus, the project would be subject to the requirements of the C.3 Stormwater Standards related to stormwater, which are included in the Town's NPDES General Permit. Additionally, Town Code Section 22.30.035 requires permanent stormwater pollution prevention measures for development projects to reduce water quality impacts of stormwater runoff from the site in accordance with the Town's current NPDES water discharge permit and the Town's policy for stormwater management.

In compliance with the above, NPDES-regulated projects are required to divide the project area into DMAs and implement and direct water to appropriately sized source control measures. Accordingly, while the proposed project would increase the amount of impervious surfaces on-site as compared to existing conditions, the proposed project would be divided into 46 DMAs and include an on-site stormwater drainage system sufficient to collect and treat the on-site runoff from new impervious surfaces. Stormwater runoff from impervious surfaces such as roofs, roadways, and sidewalks associated with the proposed project would be captured by a network of new drainage pipes throughout the site, as well as a new 15-inch storm drain line within Oka Road, and routed through treatment measures. Treated stormwater from the proposed storm drainage system would be routed to the existing 42-inch storm drain trunk line that aligns with the proposed new Hayden Lane, which ultimately discharges to an existing outfall to Los Gatos Creek. Connection points to the 42-inch storm drain trunk line would include one point within Oka Road, near the northeastern point of the project site, at two points along the proposed Hayden Lane (one north of and between Lots 15 and 10 and Lots 9 and 4), one point north of Lot 3, and one point from the bioretention area at the northwestern corner of the project site.

More specifically, DMAs 1 through 30 would collect roof runoff from the proposed buildings that would be directed to separate concrete-lined flow-through planters with underdrains. DMA 31 is the largest single DMA area, at 2.81 acres, of which 2.50 acres are comprised of the impervious paved roadways within the site. Stormwater from DMA 31 would be routed to an unlined bioretention area with underdrain located in the northernmost portion of the site, which would have a floor area of 3,423 sf and include an enlarged rock underlayer to promote infiltration. Roadway pavers would be located within DMAs 32 and 33 along the northern and southern project site boundaries, which would have a crushed rock underlayer to promote infiltration. The pedestrian and common space areas between buildings would be contained within DMAs 34 through 37 and would feature permeable paver walkways. The paver areas would feature a crushed rock underlayer to promote infiltration. DMAs 38 through 44 include areas along Oka Road adjacent to the site that would route stormwater to separate concrete-lined flow-through planters with underdrains. DMAs 45 and 46 total 0.31-acre and are also comprised of roadway areas along Oka Road. Treatment for the 641 sf of impervious surfaces within DMA 45 would be accommodated in sizing of a flow-through planter in DMA 44, and DMA 46 would be a grind and overlay area of Oka Road exempt from treatment requirements.

In order to calculate the project's ability to meet flow-duration frequency requirements while also meeting the required water quality treatment standards, the Modeling Summary was prepared for the proposed project. As discussed therein and using the Bay Area Hydrology Model (BAHM), the modeling shows that the proposed stormwater management facilities would provide effective water-quality treatment and flow-duration controls for the full range of flows, from one-tenth of the two-year flood event up to the 10-year event. Thus, the proposed stormwater system would be sized to meet Provision C.3.g of the County's Municipal Regional Stormwater NPDES permit (MRP), which requires new development to manage stormwater flows such that post-development runoff does not exceed pre-project runoff rates and durations.

According to a memorandum prepared by Balance Hydrologics (Flooding Memo) (see Appendix J),[37] project survey information and Town record drawings for the 42-inch storm drain trunk line that the proposed stormwater drainage system would connect to, which outfalls to Los Gatos Creek, show relatively low manhole rim elevations compared to the base flood elevation in Los Gatos Creek, particularly along Oka Road. The 42-inch trunk line uses bolt-down manhole covers and the outfall structure has a flap gate installed to prevent backflow from the creek. In order to assess the potential for localized flooding, the Flooding Memo included a hydraulic model of the trunk line from Oka Road to the outfall structure in Los Gatos Creek. The model was modified to incorporate project- and site-specific factors, including the proposed storm drain manhole (SDMH) structures, under the 100-year flood event, with the 50-year tailwater elevation associated with Los Gatos Creek. Similar to the original trunk line design plans, the results of the operational model showed that the trunk line capacity would be exceeded during the 100-year event at the existing connection point within Oka Road and one proposed lateral line connection point, both near the northeastern portion of the site, which confirm the need for the existing bolt-down manhole covers along the trunk line. Backflow preventers would be included as part of the proposed project at the proposed lateral line connection points, which would preclude backflow from the trunk line. In addition, the detention capacity within the proposed bioretention ponds and permeable paver sections located within the project site are large, compared to the predicted peak lateral line flowrates. The difference between the detention capacity and predicted flowrates would provide sufficient detention volume to mitigate increases in peak flow rates associated with the proposed project, and would allow the project to connect to the existing 42-inch trunk line without adverse impacts to local drainage. Thus, the design of the project, as well as the existing bolt-down manhole covers along the trunk line, would ensure that overflow of local runoff to adjacent properties would not occur.

Overall, the proposed project would comply with the requirements of the SWRCB and the Regional Water Quality Control Board (RWQCB) and would meet C.3 Standards related to stormwater treatment and control. Therefore, during operation, the project would not violate water quality standards/waste discharge requirements or otherwise degrade water quality, alter the drainage pattern of the site resulting in erosion or siltation, increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site, or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems.

[37] Balance Hydrologics. *Review of Flood Hazards Related to Los Gatos Creek, 14789 Oka Road Project, Town of Los Gatos*. October 14, 2025.

Conclusion

Based on the above, because neither a SWPPP nor an erosion and sediment control plan has been prepared for the proposed project, proper compliance with the aforementioned regulations cannot be ensured at this time. Thus, the proposed project could violate water quality standards/waste discharge requirements, substantially alter the drainage pattern of the site resulting in erosion or siltation, substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site, contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems, or otherwise substantially degrade water quality during construction, and a ***potentially significant*** impact could occur.

Mitigation Measure(s)

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

X-1 *Prior to any ground-disturbing activities, the project applicant shall prepare and submit an erosion and sediment control plan for review and approval by the Town of Los Gatos Engineering Division of the Parks and Public Works Department. A Notice of Intent (NOI) and Storm Water Pollution Prevention Plan (SWPPP) shall be submitted to the San Francisco Bay Regional Water Quality Control Board for projects disturbing more than one acre. A maximum of two weeks is allowed between clearing of an area and stabilizing/building on an area if grading is allowed during the rainy season. Interim erosion control measures, to be carried out during construction and before installation of the final landscaping, shall be included. Interim erosion control methods shall include, but are not limited to: silt fences, fiber rolls (with locations and details), erosion control blankets, Town standard seeding specification, filter berms, check dams, retention basins, etc. The project contractor shall provide erosion control measures as needed to protect downstream water quality during winter months. The grading, drainage, erosion control plan and SWPPP shall be prepared in compliance with applicable measures contained in the amended provisions C.3 and C.14 of most current Santa Clara County National Pollutant Discharge Elimination System (NPDES) Municipal Regional Permit (MRP). Monitoring for erosion and sediment control is required and shall be performed by the Qualified SWPPP Developer (QSD) or Qualified SWPPP Practitioner (QSP) as required by the Construction General Permit. Stormwater samples are required for all discharge locations and projects may not exceed limits set forth by the Construction General Permit Numeric Action Levels and/or Numeric Effluent Levels. A Rain Event Action Plan (REAP) shall be developed 48 hours prior to any likely precipitation event, defined by a 50 percent or greater probability as determined by the National Oceanic and Atmospheric Administration (NOAA), and/or whenever rain is imminent. The QSD or QSP must print and save records of the precipitation forecast for the project location area from (https://www.cpc.ncep.noaa.gov/) which shall accompany monitoring reports and sampling test data. A rain gauge is required on-site. The Town of Los Gatos Engineering Division shall conduct periodic NPDES inspections of the site throughout the recognized storm season to verify*

compliance with the Construction General Permit and Stormwater ordinances and regulations.

b,e. Water supplies in the Town of Los Gatos are provided by the SJW. Groundwater currently accounts for approximately 30 to 40 percent of the SJW's water supplies, while the remaining water supply is sourced from surface water of the Los Gatos Creek watershed.[38] Groundwater is drawn from the Santa Clara Subbasin, which is part of the larger Santa Clara Valley Basin. The Santa Clara Subbasin is an unadjudicated groundwater basin and is maintained by the Santa Clara Valley Water District (SCVWD).

California's Groundwater (Bulletin 118) is the State's official publication on the occurrence and nature of groundwater in California. The publication defines the groundwater basin boundaries and summarizes groundwater information for each of the State's 10 hydrologic regions. Bulletin 118 – Interim Update 2016 defines 517 groundwater basins and subbasins in California. Pursuant to the Sustainable Groundwater Management Act (SGMA), the Department of Water Resources (DWR) is required to prioritize the 517 groundwater basins and subbasins as either High, Medium, Low, or Very Low. Prioritization is based on the following considerations:

- The population overlying the basin or subbasin;
- The rate of current and projected growth of the population overlying the basin or subbasin;
- The number of public supply wells that draw from the basin or subbasin;
- The total number of wells that draw from the basin or subbasin;
- The irrigated acreage overlying the basin or subbasin;
- The degree to which persons overlying the basin or subbasin rely on groundwater as their primary source of water;
- Any documented impacts on the groundwater within the basin or subbasin, including overdraft, subsidence, saline intrusion, and other water quality degradation; and
- Any other information determined to be relevant by the department, including adverse impacts on local habitat and local streamflows.

Each basin's priority determines which provisions of California Statewide Groundwater Elevation Monitoring (CASGEM) and SGMA apply. SGMA requires Medium and High priority basins to develop groundwater sustainability agencies (GSAs), develop groundwater sustainability plans (GSPs) and manage groundwater for long-term sustainability. The Santa Clara Subbasin is considered High Priority by the DWR due to the overlying population, projected growth, number of wells, irrigation acreage, groundwater reliance, and groundwater impacts of the area; however, the subbasin has not been identified by DWR as being critically overdrafted.[39]

Between 2016 and 2020, the volume of water pumped from the Santa Clara Subbasin increased from 10,637 acre-feet (AF) to 17,360 AF; however, the groundwater basin has an operational storage capacity of approximately 350,000 AF.[40] The project site currently consists of orchards, which use well water for irrigation. Approximately 95 percent of the site is currently irrigated for the orchard use. Nonetheless, the proposed 138 residences

[38] San Jose Water Company. *2020 Urban Water Management Plan*. June 2021.
[39] San Jose Water Company. *2020 Urban Water Management Plan* [pg. 6-4]. June 2021.
[40] *Ibid*.

could increase water usage on-site beyond the existing water demand. However, according to the SJW 2020 Urban Water Management Plan (UWMP), water supplies are projected to meet expected demand for normal year, single-dry year, and multiple-dry year scenarios through 2045.[41] While the SJW UWMP anticipates being able to adequately meet water demands through 2045, the proposed project was not anticipated as part of the UWMP. However, as discussed further in Section XIX of this IS/MND, SJW partially sources water through purchases from SCVWD. According to the SCVWD UWMP, SCVWD anticipates having a surplus of at least 10,000 AF for normal year, single-dry year, and multiple-dry year scenarios through 2045.[42] Therefore, SJW would be able to continue purchasing water from SCVWD through all future scenarios, and the proposed project's increase in water demand could be accommodated without substantially decreasing supplies.

Additionally, the proposed project would include the development of a new stormwater drainage system to capture and treat on-site runoff. As such, even with development of the proposed project, groundwater recharge would still occur through the gravel stormwater bioretention basins and any other pervious surfaces proposed on-site (e.g., landscaped areas, permeable pavers). Thus, the proposed project would not interfere substantially with groundwater recharge in the area because the proposed stormwater drainage system would capture and treat on-site runoff from new impervious surfaces.

Based on the above, the proposed project would not substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the Santa Clara Subbasin. In addition, the project would not conflict with or obstruct implementation of a water quality control plan. Thus, a ***less-than-significant*** impact would occur.

civ. According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) number 06085C0239H, effective May 18, 2009, the project site is located adjacent to a special flood hazard area (SFHA) associated with Los Gatos Creek. However, as shown in Figure 10, the entirety of the project site is located within an area classified as Zone X, which is not considered an SFHA.[43]

SCVWD peer reviewed and submitted comments on project stormwater materials, including the Modeling Summary. Specifically, SCVWD identified that the existing levee and floodwall could not be accredited due to the insufficient freeboard provided by the floodwall, though FEMA has acknowledged the flood protection afforded by such infrastructure. Because the levee has not been accredited by FEMA, the proposed project would be designed to account for such by including placement of fill soil on the site sufficient to raise all proposed building floor elevations one foot above the current FEMA-identified base flood elevation. The project site currently acts as an ineffective flow area, which is an area of low velocity water that does not necessarily move downstream and could be considered a floodplain storage area.

41 San Jose Water Company. *2020 Urban Water Management Plan* [pg. 7-1]. June 2021.
42 Santa Clara Valley Water District. *2020 Urban Water Management Plan* [pg. 47 and 48]. June 2021.
43 Federal Emergency Management Agency. *Flood Insurance Rate Map 06085C0239H.* Available at: https://hazards-fema.maps.arcgis.com/apps/webappviewer/index.html. Accessed May 2025.

Figure 10
Project Site FEMA FIRM

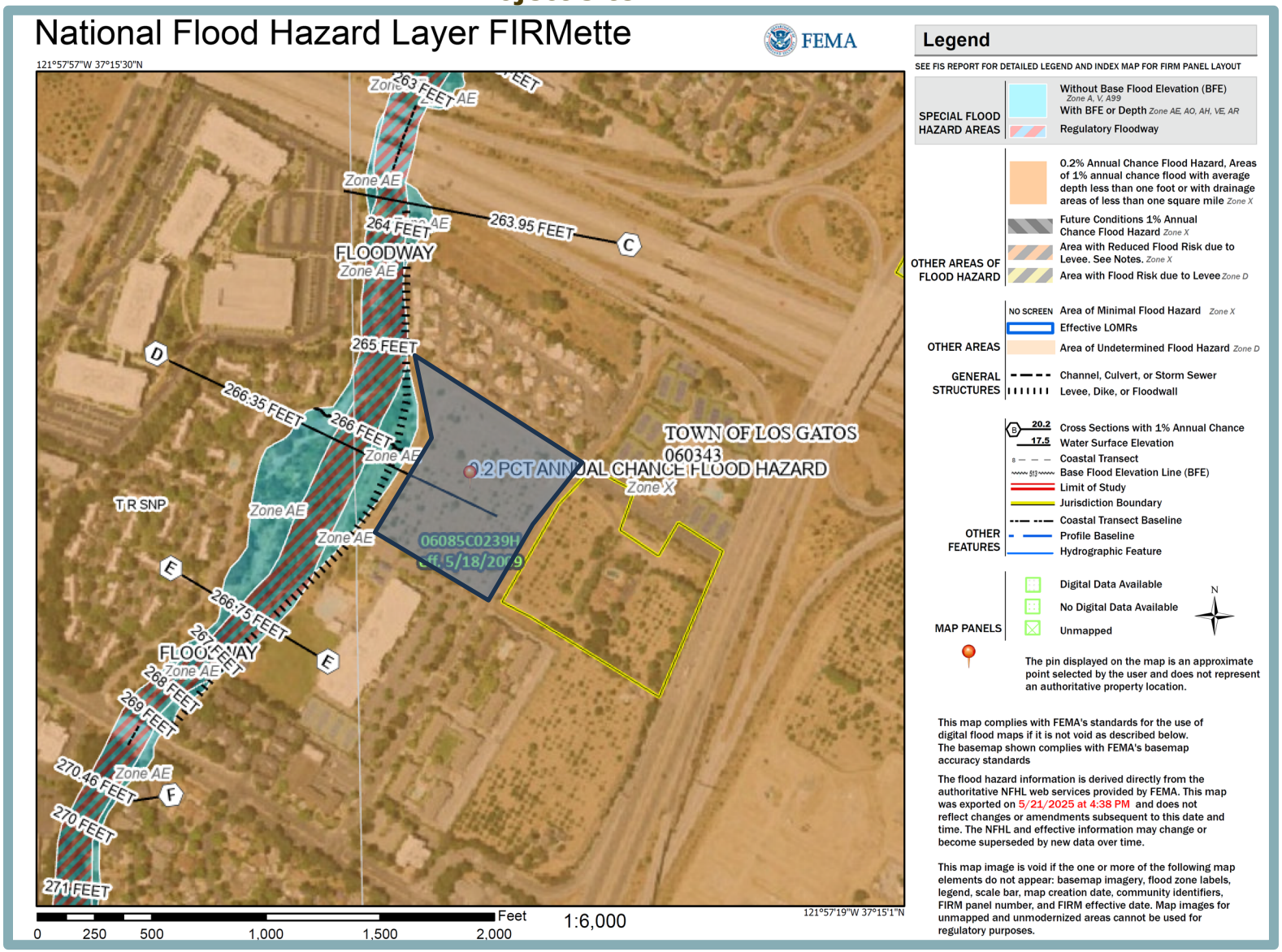


*Figure not OCR compatible.

In order to confirm whether the placement of fill and raising of the site elevation would result in any potential flooding issues on- or off-site during the 100-year flood event, modeling was conducted by Balance Hydrologics, the results of which were included in the Flooding Memo included as Appendix J to this IS/MND.[44]

According to the Flooding Memo, filling of the site to elevations above the 100-year water surface elevations identified by FEMA would provide enhanced protection for the site and adjacent properties in the event of failure of the existing uncertified levee along the creek and would serve to confine flood flows to the creek corridor. The hydraulic modeling shows the proposed fill would not alter the water surface elevation in Los Gatos Creek as modeled by FEMA. Furthermore, as discussed above, the stormwater drainage system has been designed to ensure that the post-development runoff matches the pre-development runoff detention and infiltration in the event of a 100-year storm. With the enhanced containment of flood flows in the creek and the proposed stormwater drainage system, the changes in base flood elevations along the mobile home park are not high enough to engage floodplain storage on the project site and on-site floodplain storage would not be a consideration. Overall, according to the Flooding Memo, the elevation of the site as proposed would not result in any issues related to the floodwall or floodplain, and would provide added protection for the site and adjacent properties (including the mobile homes to the north) against overflow from the creek should a failure of the existing uncertified levee occur.

Based on the above, development of the proposed project would not impede or redirect flood flows and a ***less-than-significant*** impact would result.

d. Tsunamis are defined as sea waves created by undersea fault movement, whereas a seiche is a long-wavelength, large-scale wave action set up in a closed body of water such as a lake or reservoir. Due to the project site's substantial distance from the coast, the proposed project would not be exposed to flooding risks associated with tsunamis. Seiches do not pose a risk to the proposed project, as the project site is not located adjacent to any closed body of water.

The nearest reservoir is the Vasona Reservoir, located approximately 0.54-mile south of the site. In addition, the Lexington Reservoir and Lenihan Dam are located approximately 3.93 miles south of the site. The project site is located within the dam failure inundation area associated with the Vasona Reservoir.[45] The dams in Santa Clara County are managed by the SCVWD. The dams are continuously monitored and regularly inspected, as well as inspected immediately following significant earthquakes.[46] To date, the SCVWD has not identified any issues with the Vasona Reservoir dam during inspections.

Based on the above, the proposed project would not be exposed to substantial risks related to flooding as a result of the failure of a dam, tsunamis, or seiches. In addition, as discussed under question 'civ' above, the project site would not impede or redirect flood flows. Therefore, the project would not be subject to substantial flooding risks or

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44 Balance Hydrologics. *Review of Flood Hazards Related to Los Gatos Creek, 14789 Oka Road Project, Town of Los Gatos*. October 14, 2025.

45 Santa Clara Valley Water District. *Local Dams and Reservoirs.* Available at: https://www.valleywater.org/your-water/local-dams-and-reservoirs. Accessed June 2025.

46 Santa Clara Valley Water District. *Dam Safety Program.* Available at: https://www.valleywater.org/flooding-safety/dam-safety-program. Accessed June 2025.

associated risk of release of pollutants, tsunami, or seiche, and a ***less-than-significant*** impact would occur.

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

Discussion

a. A project risks dividing an established community if the project would introduce infrastructure or alter land uses so as to change the land use conditions in the surrounding community, or isolate an existing land use. The proposed project would include the subdivision of the 6.71-acre project site into 18 lots, subsequent development of 138 residential units within 18 buildings, and construction of on-site driveways and utility improvements. The proposed project would not include changes to roadways in the vicinity of the project site, would be compatible with the existing surrounding land uses in the project area, and would not alter the existing general development trends in the area or isolate an existing land use. Therefore, the proposed project would not physically divide an established community, and ***no impact*** would occur.

b. The project site is currently designated Public and LDR by the Town's 2020 General Plan and is zoned R-1:8 and R-1:8:HEOZ. The proposed project would include the subdivision of the site into 18 residential lots. As such, the proposed project would not change the intended use of the project site. While the proposed residential development exceeds the allowable residential density established by the site's General Plan land use and zoning designations, the applicant team has submitted a formal SB 330 application for the project site and the project team is citing the Builder's Remedy. Pursuant to the Builder's Remedy, the proposed project does not require Town approval of a General Plan Amendment or Rezone to allow for approval of the proposed residential project.

As discussed throughout this IS/MND, the proposed project would not result in any significant environmental effects that cannot be mitigated to a less-than-significant level by the mitigation measures provided herein. In addition, the proposed project would not conflict with Town policies and regulations adopted for the purpose of avoiding or mitigating an environmental effect, including, but not limited to, the Town's noise standards, tree protection policies, and applicable SWRCB regulations related to stormwater. Overall, the proposed project would not conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental impact, and a ***less-than-significant*** impact would occur.

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

Discussion

a,b. The General Plan EIR determined that mineral resources are not significant in the Town. Several limestone quarries operated south of Los Gatos in the late 1800s and early 1900s. The nearest active quarries are the Lexington Quarry, east of Lexington Reservoir, and the Lehigh Permanente and Stevens Creek quarries west of Cupertino. However, active mining operations do not exist within the Town of Los Gatos and known mineral resources do not exist in the vicinity of the project site. Thus, the proposed project would not result in any impacts associated with loss of locally or regionally important mineral resources, and ***no impact*** would occur.

XIII. NOISE. *Would the project result in:*	Potentially Significant Impact	Less-Than-Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	☐	✖	☐	☐
b. Generation of excessive groundborne vibration or groundborne noise levels?	☐	✖	☐	☐
c. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☐	✖

Discussion

a. The following sections are based off of a Noise and Vibration Assessment prepared for the proposed project by I&R (see Appendix K).[47] The following sections present information regarding sensitive noise receptors in proximity to the project site, applicable noise standards, the existing noise environment, and the potential for the proposed project to result in noise impacts during project construction and operation. The following terms are referenced in the sections below:

- Decibel (dB): A unit of sound energy intensity. An A-weighted decibel (dBA) is a decibel corrected for the variation in frequency response to the typical human ear at commonly encountered noise levels. All references to dB in this analysis are A-weighted unless noted otherwise.
- Community Noise Equivalent Level (CNEL): The cumulative noise exposure over a 24-hour period. Weighting factors of +5 and +10 dBA are applied to the evening and nighttime periods, respectively, to account for the greater sensitivity of people to noise during those periods.
- Average, or equivalent, sound level (L_{eq}): The L_{eq} 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).
- Day-Night Average Level (L_{dn}): The average sound level over a 24-hour day, with a +10 decibel weighing applied to noise occurring during nighttime (10:00 PM to 7:00 AM) hours.
- Maximum Sound Level (L_{max}): The maximum sound level over a given time-period.
- Sound Levels (L_{01}, L_{10}, L_{50}, L_{90}): The A-weighted noise levels exceeded one, 10, 50, and 90 percent of the time during the measurement period.

Sensitive Noise Receptors

Some land uses are considered more sensitive to noise than others, and, thus, are referred to as sensitive noise receptors. Land uses often associated with sensitive noise receptors generally include residences, schools, libraries, hospitals, and passive recreational areas. Noise-sensitive land uses are typically given special attention to

[47] Illingworth & Rodkin, Inc. *14789 Oka Road Residential Development Noise and Vibration Assessment.* January 14, 2025.

achieve protection from excessive noise. The nearest existing sensitive receptors to the project site are the mobile home residences located immediately adjacent to the northern project site boundary. The community center and associated preschool south of the site are also considered sensitive receptors.

Town Noise Standards

Both the Town's Municipal Code and General Plan include regulations related to the generation of noise. Section 16.20.035 of the Town's Municipal Code states the following regarding construction noise:

> Notwithstanding any other provision of this chapter, between the hours of 8:00 a.m. to 6:00 p.m. weekdays, and 9:00 a.m. to 4:00 p.m. Saturdays, construction, alteration or repair activities which are authorized by a valid Town permit or as otherwise allowed by Town permit, shall be allowed if they meet at least one of the following noise limitations:
>
> (1) No individual piece of equipment shall produce a noise level exceeding eighty-five (85) dBA at twenty-five (25) feet. If the device is located within a structure on the property, the measurement shall be made at distances as close to twenty-five (25) feet from the device as possible.
> (2) The noise level at any point outside of the property plane shall not exceed eighty-five (85) dBA.

Table NOI-2 of the Town's General Plan establishes a maximum outdoor noise limit of 55 dBA L_{dn} for residential land uses within the Town. The Noise Element of the Town's General Plan also specifies a limit of 45 dBA L_{dn} for residential interiors.

The Town of Los Gatos has not established a threshold for significant increases in traffic noise. However, the Federal Interagency Committee on Noise (FICON) has developed guidance for determining increases in traffic noise. Therefore, increases in the ambient noise environment due to the proposed project were evaluated using the criteria developed by FICON. Although the FICON guidelines were originally developed for aircraft noise impacts, the noise increase thresholds are generally considered appropriate for evaluation of noise increases at noise sensitive uses such as single-family residences. The significance criteria are provided in Table 5, below.

Table 5
FICON Noise Exposure Increases for Determining Level of Significance

Noise Exposure without Project	Potential Significant Impact
< 60 dB CNEL	5.0 dB or more
60-65 dB CNEL	3.0 dB or more
>65 dB CNEL	1.5 dB or more

Source: Federal Interagency Committee on Noise, 1992.

As shown in the table, according to FICON, an increase in the traffic noise level of five dB or more would be significant where the pre-project noise levels are less than 60 dB L_{dn}. In areas where the pre-project noise levels range from 60 to 65 dBA, a three dBA barely perceptible noise level increase appears to be appropriate for most people. When the pre-project noise levels already exceed 65 dBA, any increase in community noise louder than

1.5 dBA or greater is considered a significant impact, given that the noise increase likely contributes to an existing noise exposure exceedance.

Existing Noise Environment

The existing noise environment in the project area is predominantly defined by traffic on Oka Road and nearby State routes, including SR 85 and SR 17. To quantify the existing ambient noise environment, I&R conducted continuous long-term (LT) (24-hour) noise level measurements at one location on the project site approximately 25 feet from the centerline of Oka Road and short-term (ST) measurements at two different locations within the project site (at the northwestern and southwestern site boundaries). Noise measurement locations are shown on Figure 11 and a summary of the ST measurement survey results is provided in Table 6.

Table 6
Summary of Short-Term Noise Measurements (dBA)

Site	L_{max}	L_{01}	L_{10}	L_{50}	L_{90}	L_{eq}
ST-1	60	56	50	47	46	48
ST-2	52	52	51	50	49	50

Source: Illingworth & Rodkin, January 2025.

Hourly average noise levels at LT-1 typically ranged from 57 to 65 dBA L_{eq} during the day (between 7:00 AM and 10:00 PM) and from 48 to 62 dBA L_{eq} at night (between 10:00 PM and 7:00 AM). The L_{dn} at LT-1 was 64 dBA.

Impact Analysis

The following sections provide an analysis of potential noise impacts associated with construction and operation of the proposed project.

Construction Noise

During construction activities associated with the proposed project, heavy equipment would be used, which would temporarily increase ambient noise levels within the project vicinity. Noise levels would vary depending on the type of equipment used, how the equipment is operated, and how well the equipment is maintained. In addition, noise exposure at any single point outside the project site would vary depending on the proximity of construction activities to that point. Standard construction equipment, such as backhoes, loaders, and dump trucks, would be used on-site.

Noise would also be generated during the construction phase by increased truck traffic on area roadways. Truck traffic would involve transport of heavy materials and equipment to and from the construction site, including soil hauling associated with the use of fill on-site. Noise increases from truck traffic related to the movement of material would be of short duration and would likely occur primarily during daytime hours.

Table 7 shows the predicted construction noise levels for typical construction equipment, which may be used during construction activities associated with the proposed project. Based on the table, while activities involved in typical construction would generate maximum noise levels up to 105 dBA at a distance of 50 feet, the proposed project would not require the use of a pile-driver during construction activities. Therefore, the Noise and Vibration Assessment concluded that construction of the proposed project would generate maximum noise levels up to 90 dB at a distance of 50 feet.

Figure 11
Noise Measurement Sites

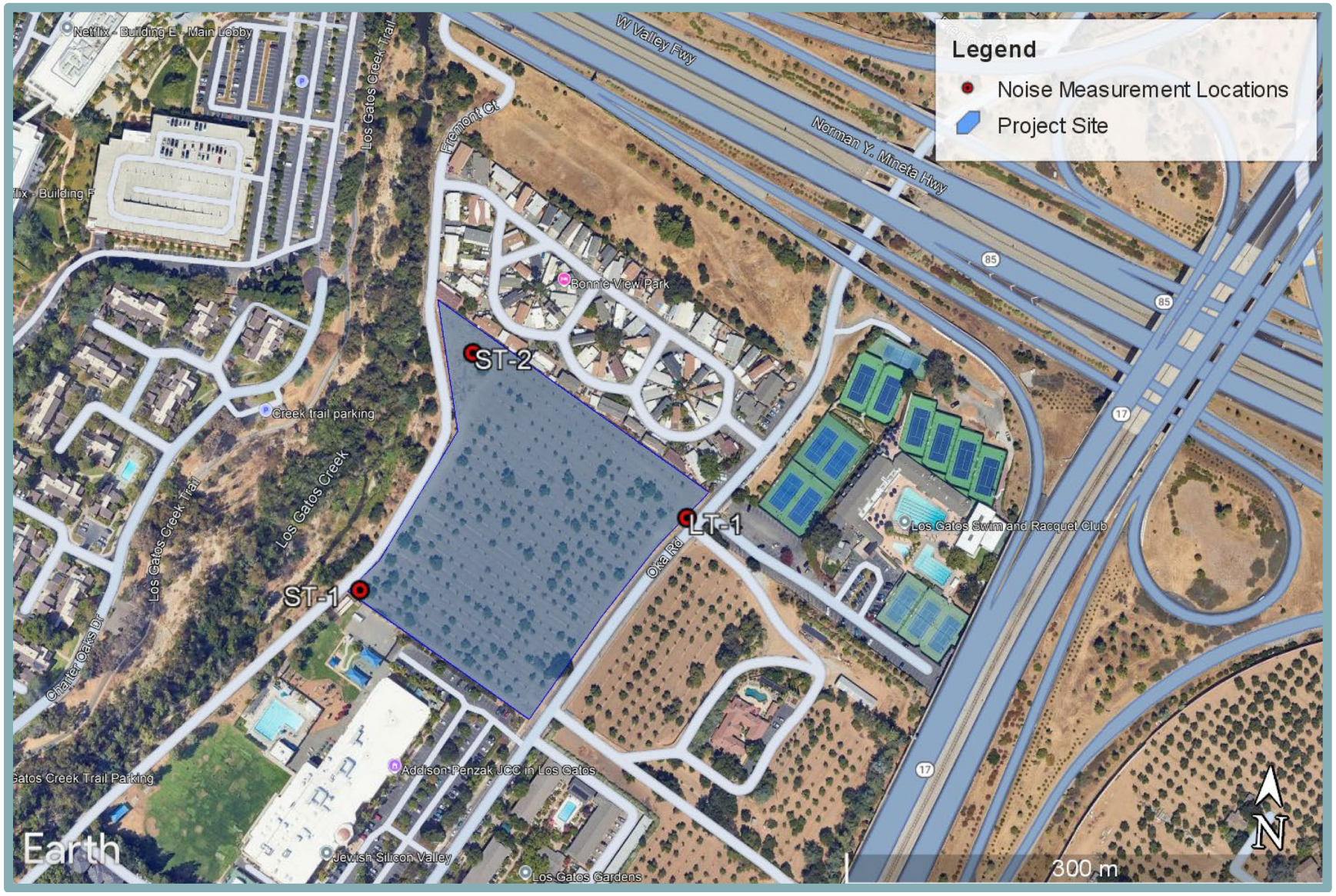


*Figure not OCR compatible.

Table 7
Construction Equipment Noise

Type of Equipment	L_{max} dBA at 50 Feet
Arc Welder	73
Auger Drill Rig	85
Backhoe	80
Bar Bender	80
Boring Jack Power Unit	80
Chain Saw	85
Compressor (rated at 75 cfm or greater, operating at greater than 50 psi)	70
Compressor (other)	80
Concrete Mixer	85
Concrete Pump	82
Concrete Saw	90
Concrete Vibrator	80
Crane	85
Dozer	85
Excavator	85
Front End Loader	80
Generator	82
Generator (25 KVA or less)	70
Gradall	85
Grader	85
Grinder Saw	85
Horizontal Boring Hydro Jack	80
Hydra Break Ram	90
Impact Pile Driver	105
Insitu Soil Sampling Rig	84
Jackhammer	85
Mounted Impact Hammer (hoe ram)	90
Paver	85
Pneumatic Tools	85
Pumps	77
Rock Drill	85
Scraper	85
Slurry Trenching Machine	82
Soil Mix Drill Rig	80
Street Sweeper	80
Tractor	84
Truck (dump, delivery)	84
Vacuum Excavator Truck (vac-truck)	85
Vibratory Compactor	80
Vibratory Pile Driver	95
All other equipment with engines larger than five horsepower	85

Source: Illingworth & Rodkin, [Table 5], January 2025.

Section 16.20.035 of the Town's Municipal Code states that construction activities shall be allowed if one of the following conditions is met: (1) that construction noise is limited to 85 dBA at a distance of 25 feet for any single piece of equipment, or (2) the noise level at any point outside of the property plane does not exceed 85 dBA. As one increases the distance between equipment, or increases separation of areas with simultaneous construction activity, dispersion and distance attenuation reduce the effects of combining

separate noise sources. The noise levels from a source decrease at a rate of approximately six dB per every doubling of distance from the noise source.[48]

Table 8 summarizes the estimated noise levels at 25 feet associated with the construction equipment to be used for project construction. The Vibration and Noise Assessment assumed the operation of the two loudest pieces of construction equipment for each construction phase. In addition, Table 9 shows the estimated project construction noise levels at the property lines of surrounding sensitive receptors.

Table 8
Estimated Construction Noise Levels for the Proposed Project at a Distance of 25 feet

Phase of Construction	Total Number of Workdays	Construction Equipment (Quantity)	Estimated Construction Noise Level at 25 Feet, dBA L_{eq}
Site Preparation	10	Rubber-Tired Dozer (3)*, Tractor/Loader/Backhoe (4)*	88
Grading/ Excavation	20	Excavator (1), Grader (1)*, Rubber-Tired Dozer (1), Tractor/Loader/Backhoe (3)*	90
Trenching/ Foundation	20	Tractor/Loader/Backhoe (1)*, Excavator (1)*	88
Building – Exterior	230	Crane (1), Forklift (3), Generator Set (1)*, Tractor/Loader/Backhoe (3)*, Welder (1)	88
Building – Interior	20	Air Compressor (1)*	80
Paving	20	Paver (2)*, Paving Equipment (2)*, Roller (2)	89

* Denotes two loudest pieces of construction equipment per phase.

Source: Illingworth & Rodkin, January 2025.

As shown in Table 9, construction activities focused near the center of the project buildings would generate construction noise levels typically ranging from 58 to 72 dBA L_{eq} at the surrounding sensitive receptors. As such, construction noise levels at any point outside of the property plane would not exceed 85 dBA for all phases of construction. However, such noise levels assume noise is focused at the center of the site. As shown in Table 8, the estimated noise levels at 25 feet from construction equipment could exceed the 85 dBA threshold at the nearest sensitive receptors to the project site (i.e., the mobile homes to the north, which are located adjacent to the site boundary).

[48] Illingworth & Rodkin, Inc. *14789 Oka Road Residential Development Noise and Vibration Assessment* [pg. 18]. January 14, 2025.

Table 9
Estimated Project Construction Noise Levels at the Property Lines of Receptors Surrounding the Project Site

Phase of Construction	Calculated Hourly Average L_{eq}, dBA	
	Mobile Home Residential Uses to the North (290 feet)	Community Center to the South (300 feet)
Site Preparation	72	72
Grading/Excavation	72	72
Trenching	66	66
Building – Exterior	71	71
Building – Interior/ Architectural Coating	58	58
Paving	71	71

Source: Illingworth & Rodkin, January 2025.

Operational Noise

Residences are not typically associated with the generation of substantial noise. Operation of the potential on-site future residences would include typical residential noise, which includes traffic noise and minor mechanical equipment such as HVAC equipment. Existing ambient measurements in the project site vicinity indicate that existing and future ambient noise levels at the noise-sensitive receptors in the project site vicinity would result in noise levels over 60 dBA L_{dn}.

With respect to traffic noise, and based on the thresholds summarized in Table 5, a significant impact would occur if the permanent noise level increase due to project-generated traffic is three dBA L_{dn} or more. The Vibration and Noise Assessment determined that the proposed project is not anticipated to increase peak hour traffic volumes along Oka Road sufficient to significantly increase noise levels. In comparison to existing peak hour traffic volumes along Oka Road, the peak hour trips associated with the proposed project would result in a noise level increase less than one dBA L_{dn}.

With respect to mechanical equipment noise, the project site is located in an orange zone on the Town of Los Gatos Noise Zone Map, which indicates an ambient noise level of 48 dBA between the nighttime hours of 10:00 PM and 6:00 AM, 55 dBA between the daytime hours of 6:00 AM and 1:00 PM, and 59 dBA between the daytime hours of 1:00 PM and 10:00 PM. New operational noise sources are limited to a noise level of six dBA or less above the aforementioned ambient levels. Five decibels is subtracted from the ambient noise levels on weekends and holidays; therefore, the most restrictive noise limit would be 49 dBA between the nighttime hours of 10:00 PM and 6:00 AM.

Although the site plan does not show HVAC units, such equipment is typically proposed for residential projects. According to the Vibration and Noise Assessment, the location of the HVAC units is likely to be either the ground level, along exterior building façades, or on unit rooftops. Residential HVAC units typically cycle on and off continuously throughout a 24-hour period. Thus, multiple units could be operating simultaneously in a relatively small vicinity at any given time. In order to present a conservative analysis, the Vibration and Noise Assessment assumed worst-case conditions of two to three HVAC units clustered along the end units of each building, approximately 55 feet from the closest sensitive receptors along the northern project site boundary.

According to the Noise and Vibration Assessment, typical HVAC units for the proposed residential buildings generate noise levels ranging between 53 to 63 dBA at a distance of three feet. Based on the simultaneous operation of at least three clustered units as described above, combined noise levels generated at each proposed building would be up to 68 dBA L_{eq} at three feet, and the combined L_{dn} would be 74 dBA L_{dn} at three feet.

At the sensitive receptors to the north, noise from HVAC units would reach a maximum of 49 dBA L_{eq} and up to 55 dBA L_{dn}. According to the Noise and Vibration Assessment prepared for the proposed project, future noise levels along the northern project site boundary would range from 59 to 66 dBA L_{dn}. Based on the existing noise levels summarized in Table 6, any future noise from mechanical equipment associated with the proposed project would result in a one dBA L_{dn} or less increase at the nearest sensitive receptors. Additionally, the Noise and Vibration Assessment notes that noise from mechanical equipment would not exceed the most restrictive 49-dBA orange zone limit for on-site equipment at night or on weekends. Thus, a less-than-significant impact would occur with regard to on-site operational noise.

Conclusion

Based on the above, operation of the proposed project would not substantially increase ambient noise levels in the project area. However, construction noise could result in the generation of a substantial permanent increase in ambient noise levels, and a ***potentially significant*** impact could occur.

Mitigation Measure(s)

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

XIII-1 *Prior to approval of grading permits, the following criteria shall be established and noted on grading plans, subject to review and approval by the Town:*

- *Ensure that construction activities are limited to the hours of 8:00 AM to 6:00 PM on weekdays and between the hours of 9:00 AM and 4:00 PM on Saturdays. Construction shall not be permitted on Sundays or holidays;*
- *A temporary eight-foot noise barrier shall be constructed along the north property line of the project site to shield adjacent residential land uses from ground-level construction equipment and activities. The noise barrier shall be solid over the face and at the base of the barrier to provide a five dBA noise reduction;*
- *Equip all internal combustion engine-driven equipment with intake and exhaust mufflers that are in good condition and appropriate for the equipment;*
- *Unnecessary idling of internal combustion engines shall be strictly prohibited;*
- *Locate stationary noise-generating equipment, such as air compressors or portable power generators, as far as possible from sensitive receptors as feasible. If the equipment must be located near receptors, adequate muffling (with enclosures where feasible and appropriate) shall be used to reduce noise levels at the*

adjacent sensitive receptors. Any enclosure openings or venting shall face away from sensitive receptors;

- *Construction staging areas shall be established at locations that would create the greatest distance between the construction-related noise sources and noise-sensitive receptors nearest the project site during all project construction;*
- *Locate material stockpiles, as well as maintenance/equipment staging and parking areas, as far as feasible from residential receptors;*
- *Control noise from construction workers' radios to a point where radio noise is not audible at existing residences bordering the project site; and*
- *Designate a disturbance coordinator responsible for responding to any complaints about construction noise. The disturbance coordinator shall determine the cause of the noise complaint (e.g., bad muffler, etc.) and shall require that reasonable measures be implemented to correct the problem. Conspicuously post a telephone number for the disturbance coordinator at the construction site and include the number in the notice sent to neighbors regarding the construction schedule.*

Proof of compliance with the above measures shall be submitted to the Town of Los Gatos Building Department for review.

b. Similar to noise, vibration involves a source, a transmission path, and a receiver. However, 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 depends 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 is measured in terms of acceleration, velocity, or displacement. A common practice is to monitor vibration in terms of peak particle velocities (PPV) in inches per second (in/sec). Standards pertaining to perception as well as damage to structures have been developed for vibration levels defined in terms of PPV. 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. According to the Noise and Vibration Assessment prepared for the proposed project, the California Department of Transportation (Caltrans) recommends a vibration threshold of 0.5 in/sec PPV for modern residential, commercial, and industrial structures.

The proposed project would only cause elevated vibration levels during construction, as the proposed project would not involve any uses or operations that would generate substantial groundborne vibration. Although noise and vibration associated with the construction of the project would add to the noise and vibration environment in the immediate project vicinity, construction activities would be temporary in nature and are anticipated to occur during normal daytime working hours.

While construction noise levels increase based on the cumulative equipment in use simultaneously, construction vibration levels would be dependent on the location of individual pieces of equipment. Therefore, equipment scattered throughout the site would not generate a collective vibration level, but a vibratory roller, for instance, operating near the project site boundary would generate significant vibration levels for the receptor sharing that property line. Table 10 shows the typical vibration levels produced by construction equipment at 25 feet, and the minimum distance required to meet the 0.5 in/sec PPV threshold. The most substantial source of groundborne vibrations associated with project construction would be the use of vibratory rollers. Use of vibratory rollers could be required during construction of the proposed on-site drive aisles and parking areas.

Table 10
Vibration Source Levels for Construction Equipment

Type of Equipment		PPV at 25 feet (in/sec)	Minimum Distance to Meet 0.5 in/sec PPV (feet)
Clam shovel drop		0.202	11
Hydromill (slurry wall)	In soil	0.008	<1
	In rock	0.017	2
Vibratory Roller		0.210	12
Hoe Ram		0.089	6
Large Bulldozer		0.089	6
Caisson Drilling		0.089	6
Loaded Trucks		0.076	5
Jackhammer		0.035	4
Small Bulldozer		0.003	<1

Source: Illingworth & Rodkin, January 2025.

Table 11 summarizes the anticipated vibration levels at the nearby sensitive receptors to the project site. As part of the Noise and Vibration Assessment, the mobile homes to the north of the project site were modeled as five feet from the project site boundaries, and the community center to the south as 90 feet away.

Table 11
Vibration Levels for Construction Equipment at Nearest Buildings to the Project Site

Type of Equipment		PPV (in/sec) Estimated at Nearest Buildings	
		North Mobile Home Residences (five feet)	South Community Center (90 feet)
Clam shovel drop		1.186	0.049
Hydromill (slurry wall)	In soil	0.047	0.002
	In rock	0.100	0.004
Vibratory Roller		1.233	0.051
Hoe Ram		0.523	0.022
Large Bulldozer		0.523	0.022
Caisson Drilling		0.523	0.022
Loaded Trucks		0.446	0.019
Jackhammer		0.206	0.009
Small Bulldozer		0.018	0.001

Note: Cells in red indicate vibration levels above the 0.5 in/sec PPV threshold.

Source: Illingworth & Rodkin, January 2025.

As shown in Table 11, project construction activities could generate vibration levels up to 1.233 in/sec PPV at the nearest mobile home residence adjoining the site to the north. Therefore, construction vibrations could exceed acceptable levels, and such adjacent buildings could be impacted by construction-related vibrations, especially related to vibratory rollers.

Based on the above, because the proposed project could expose people to or generate excessive groundborne vibration during project construction, a ***potentially significant*** impact could occur.

Mitigation Measure(s)

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

XIII-2 *Prior to commencement of project construction activities, the project applicant shall prepare a Construction Vibration Plan to reduce construction vibration levels to less than or equal to 0.5 in/sec PPV. The project contractor shall ensure compliance and implementation of the plan throughout the construction period. All plan tasks shall be in accordance with industry-accepted standard methods. The Construction Vibration Plan shall be submitted to the Town of Los Gatos Community Development Department and include, but not be limited to, the following measures:*

- *A list of all heavy construction equipment known to produce high vibration levels to be used for this project (e.g., dozers, graders, excavators, saws, trucks, and vibratory rollers) shall be submitted to the Town, as well as a list of smaller equipment (less than 18,000 pounds) to be used near the northern project site boundaries.*
- *A smaller vibratory roller similar to a Caterpillar model CP433E vibratory compactor shall be used when compacting materials within 30 feet of any adjacent residential buildings. For all other equipment, smaller equipment (less than 18,000 pounds) shall be used within areas 15 feet adjacent to existing residential buildings. The smaller equipment shall be individually identified among the list of equipment as a subset of equipment allowed for use at the project site boundaries.*
- *Avoid dropping heavy equipment and using vibratory rollers within 30 feet of the sensitive receptors adjoining the project site. Use alternative methods for breaking up existing pavement, such as a pavement grinder, instead of dropping heavy objects, within 30 feet of adjacent buildings to the north.*
- *Select orchard tree removal methods that do not involve large impact tools within 15 feet of the shared property line with the residences to the north. Portable jackhammers, saws, or grinders shall be used to minimize impacts to the ground.*
- *Designate a Disturbance Coordinator responsible for registering and investigating claims of excessive vibration. The contact information of the coordinator shall be clearly posted on the construction site.*

c. The project site is not within an airport land use plan, within two miles of a public airport, or near a private landing strip. The nearest airport to the project site is the San Jose International Airport, located approximately 7.08 miles north of the site. Given that the project site is not located within two miles of a public airport or public use airport, the proposed project would not expose people residing or working in the project area to excessive noise levels associated with such. Thus, ***no impact*** would occur.

XIV. POPULATION AND HOUSING. *Would the project:*	Potentially Significant Impact	Less-Than-Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (e.g., through projects in an undeveloped area or extension of major infrastructure)?	☐	☐	✖	☐
b. Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	✖

Discussion

a. The proposed project would include a total of 138 residential units. According to the U.S. Census Bureau, as of 2023, the average household size in Los Gatos was estimated at 2.54 persons per household.[49] Using this average household size, the proposed project could result in a maximum increase of 351 residents within the Town. According to the U.S. Census Bureau, the Town has an estimated total population of 32,952. The estimated increase in 351 residents would equate to approximately 1.06 percent of the Town's population.

The project site is currently designated Public and LDR by the Town's 2020 General Plan and is zoned R-1:8 and R-1:8:HEOZ. The Town's 2020 Land Use Element cites a maximum of 17.5 persons per acre for LDR-designated areas. Therefore, the Town generally anticipated residential development of the 6.38-acre portion of the project site to result in approximately 112 new residents (6.38 x 17.5 = 111.65). Based on the relatively small increase in population generated by the proposed project as compared to the Town's total population, and the 0.72 percent increase in population as compared to the anticipated LDR development, the project would not result in substantial unplanned population growth within the Town. In addition, as discussed in Section XIX, Utilities and Services Systems, of this IS/MND, adequate utility infrastructure and services exist to meet the additional demand that would be created by the project. Similarly, as discussed in Section XV, Public Services, public service providers, such as local police and fire departments, would be capable of accommodating the demands of the proposed project. Therefore, the proposed project would not induce substantial unplanned population growth either directly or indirectly, and a ***less-than-significant*** impact would occur.

b. The project site currently consists of orchards and does not contain any existing residential structures. Furthermore, the proposed project would result in the development of 138 new residential units, thus increasing the housing stock of the Town. Therefore, the proposed project would not displace a substantial amount of existing housing or people and would not necessitate the construction of replacement housing elsewhere, and ***no impact*** would occur.

[49] U.S. Census Bureau. *QuickFacts: Los Gatos town, California.* Available at: https://www.census.gov/quickfacts/fact/table/losgatostowncalifornia/PST045222. Accessed May 2025.

XV. PUBLIC SERVICES.

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

Discussion

a,b. Fire protection services are currently provided to the site by SCCFD. The SCCFD maintains 17 fire stations and is staffed by approximately 300 fire prevention, suppression, investigation, administration, and maintenance personnel. The nearest fire station to the project site is the SCCFD Fire Station located at 14700 Winchester Boulevard, approximately 0.22-mile from the project site. The SCCFD has the following service standards:

- First unit shall arrive on scene in less than 7 minutes from dispatch of alarm, at least 90 percent of the time.
- Second unit shall arrive on scene in less than 9 minutes from dispatch of alarm, at least 90 percent of the time.
- Remaining units shall arrive on scene in less than 15 minutes from dispatch of alarm, at least 90 percent of the time.
- A fire company with at least one paramedic shall arrive on scene in less than 7 minutes from dispatch of alarm, no less than 90 percent of the time.

The Los Gatos-Monte Sereno Police Department provides police protection services to the project site. The Police Department has a total of 64 staff members, consisting of 42 sworn personnel, including one chief and two captains, 22 non-sworn personnel, and a large number of volunteers and interns. Officers provide police assistance seven days per week, 24 hours per day. The Town's Police Department headquarters is located at 110 East Main Street, approximately 2.47 miles south of the project site. The Police Department does not have quantified service standards. However, the Police Department does have the performance objective of "providing a safe environment through timely response and police assistance." The department categorizes all calls as Priority One, Priority Two, or Priority Three. Priority One calls involve either a serious emergency or public safety hazard. Priority Two calls are those that require immediate response, but are not an emergency. Priority Three calls are all non-emergency calls.

Given the proximity of the nearest fire station to the project site, the aforementioned response times goals would be met at the site. In addition, as discussed in Section XIV, Population and Housing, above, the proposed project would result in an estimated population of 351 residents, which would equate to approximately 1.06 percent of the Town's population. Therefore, due to the relatively small increase in population, the

increase in demand for fire and police services at the project site would not be considered substantial and could be met by current service providers, without the need for expanding existing fire or police protection facilities or constructing new facilities, the construction of which could cause significant environmental effects. The project would comply with all applicable State and local requirements related to fire safety and security, including installation of fire sprinklers. Compliance with such standards would minimize fire and police protection demands associated with the project. It should also be noted that issues related to wildfire hazards are discussed in Section XX, Wildfire, of this IS/MND.

Therefore, the proposed project would have a ***less-than-significant*** impact related to the need for new or physically altered fire or police protection facilities, the construction of which could cause significant environmental impacts.

c. The Town of Los Gatos is currently served by six different school districts: the Los Gatos Union School District, the Los Gatos-Saratoga Joint Union High School District, the Campbell Union School District, the Campbell Union High School District, the Cambrian Union Elementary District, and Union Elementary School District.

As discussed throughout this IS/MND, the proposed project would include the development of the site with 138 new residential units. According to the Town's General Plan EIR, residential units are anticipated to generate an increase of 0.7 students per residence for a total of 2,617 students. Therefore, the proposed project could increase the amount of school age children in the Town by approximately 97 students (or 3.7 percent of the anticipated total). The Town's General Plan EIR also notes that the 0.7 students per household generation rate is considered conservative, as the rate assumes all school-age children would attend public schools and does not account for private schools or homeschooling. Given the relatively small increase in student population that could occur as a reasonably foreseeable consequence of the proposed project, the increase in demand for school facilities would not be considered substantial.

In addition, the project would be subject to payment of School Impact Mitigation Development Fees to fund local school services. Proposition 1A/SB 50 prohibits local agencies from using the inadequacy of school facilities as a basis for denying or conditioning approvals of any "[…] legislative or adjudicative act…involving …the planning, use, or development of real property" (Government Code 65996(b)). Satisfaction of the Proposition 1A/SB 50 statutory requirements by a developer is deemed to be "full and complete mitigation."

Therefore, the proposed project would have a ***less-than-significant*** impact related to the need for new or physically altered schools, the construction of which could cause significant environmental impacts.

d,e. Further discussion on parks and recreation facilities within the Town is provided in Section XVI, Recreation, below. As discussed therein, the Town currently provides 8.4 acres of parkland per 1,000 residents. The nearest park or recreational facility to the project site is Live Oak Manor Park, located approximately 0.56-mile southeast of the site. In addition, the Los Gatos Creek Trail is west of the site, across Los Gatos Creek, and is accessible by way of a multi-use bridge located approximately 900 feet south of the project site.

The Town of Los Gatos also includes one public library located within the Town's Civic Center complex approximately 2.48 miles south of the site, as well as a Health Library and

Resource Center within the El Camino Hospital, located approximately 0.60-mile northwest of the site. The Town library was upgraded in 2012 and resulted in an increase of approximately 16,000 sf of space.

Development of the site with 138 new residential units would result in an increase in approximately 351 residents. Given the relatively small increase in population as compared to the Town's total population that could occur as a reasonably foreseeable consequence of the proposed project, the increase in demand for parks and recreational facilities, or other public facilities such as libraries would not be considered substantial and could be met by current Town facilities, without the need for the expansion or construction of such new facilities, the construction of which could cause significant environmental effects.

Therefore, the proposed project would have a ***less-than-significant*** impact related to the need for new or physically altered parks or other public facilities, the construction of which could cause significant environmental impacts.

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

Discussion

a,b. The Town contains approximately 254 acres of parkland, nearly seven miles of multi-use trails and over 65 acres of lawn area. Of 37 total public and private parks and recreation facilities in the Town of Los Gatos, 18 are publicly owned and operated parks. In addition, 15 recreational facilities with one or more sports fields exist within the Town of Los Gatos; 11 contain baseball fields, and 10 contain multi-use field areas for organized scheduled events. Such facilities provide a total of approximately 507,700 sf of multi-use field space within Los Gatos. Pursuant to Town's General Plan Policy OSPR-6.7, the Town has a goal to provide parkland at a rate of five acres per 1,000 residents. Overall, the Town currently provides 8.4 acres of parkland per 1,000 residents. The nearest park or recreational facility to the project site is Live Oak Manor Park, located approximately 0.56-mile southeast of the site. In addition, the Los Gatos Creek Trail is west of the site, across Los Gatos Creek, and is accessible by way of a multi-use bridge located approximately 900 feet south of the project site.

Although the proposed project does not currently include the dedication of any parkland on-site, because the Town already exceeds the park standard and the anticipated increase in population generated by the project is fairly small, the proposed project would not result in population growth that could result in increased demand on existing recreational facilities or cause the construction or expansion of recreational facilities. Thus, a ***less-than-significant*** impact would occur.

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

Discussion

The following discussion is based primarily on a Transportation Analysis prepared by Hexagon Transportation Consultants, Inc. (Hexagon) for the proposed project (see Appendix C).[50]

a. The law has changed with respect to how transportation-related impacts may be addressed under CEQA. Traditionally, lead agencies used level of service (LOS) to assess the significance of such impacts. LOS represents a qualitative description of the traffic operations experienced by the driver at an intersection or along a roadway segment and ranges from LOS A, which represents the absence of congestion and little delay, to LOS F, which signifies excessive congestion and delays. Greater levels of congestion are considered to be more significant than lesser levels. Mitigation measures typically took the form of capacity-increasing improvements, which often had their own environmental impacts (e.g., to biological resources). Depending on circumstances, and an agency's tolerance for congestion (e.g., as reflected in its general plan), LOS D, E, or F often represented significant environmental effects. In 2013, however, the State Legislature passed legislation with the intention of ultimately doing away with LOS in most instances as a basis for environmental analysis under CEQA. Enacted as part of SB 743 (2013), PRC Section 21099, subdivision (b)(1), directed the Governor's Office of Planning and Research (OPR) to prepare, develop, and transmit to the Secretary of the Natural Resources Agency for certification and adoption proposed CEQA Guidelines addressing "criteria for determining the significance of transportation impacts of projects within transit priority areas. Those criteria shall promote the reduction of greenhouse gas emissions, the development of multimodal transportation networks, and a diversity of land uses. In developing the criteria, [OPR] shall recommend potential metrics to measure transportation impacts that may include, but are not limited to, vehicle miles traveled, vehicle miles traveled per capita, automobile trip generation rates, or automobile trips generated. The office may also establish criteria for models used to analyze transportation impacts to ensure the models are accurate, reliable, and consistent with the intent of this section."

   Subdivision (b)(2) of Section 21099 further provides that "[u]pon certification of the guidelines by the Secretary of the Natural Resources Agency pursuant to this section, automobile delay, as described solely by level of service or similar measures of vehicular capacity or traffic congestion *shall not be considered a significant impact on the environment* pursuant to [CEQA], except in locations specifically identified in the guidelines, if any." (Italics added.)

[50] Hexagon Transportation Consultants, Inc. *Oka Road Townhomes Transportation Analysis.* May 5, 2025.

Pursuant to SB 743, the Natural Resources Agency promulgated CEQA Guidelines Section 15064.3 in late 2018, which became effective in early 2019. Subdivision (a) of that section provides that "[g]enerally, vehicle miles traveled is the most appropriate measure of transportation impacts. For the purposes of this section, VMT refers to the amount and distance of automobile travel attributable to a project. Other relevant considerations may include the effects of the project on transit and non-motorized travel. Except as provided in subdivision (b)(2) below (regarding roadway capacity), a project's effect on automobile delay shall not constitute a significant environmental impact."[51]

Please refer to question 'b' for a discussion of VMT.

Pedestrian, Bicycle, and Transit Facilities

Pedestrian facilities are comprised of crosswalks, sidewalks, pedestrian signals, and off-street paths, which provide safe and convenient routes for pedestrians to access the destinations such as institutions, businesses, public transportation, and recreation facilities.

Bicycle paths, lanes and routes are typical examples of bicycle transportation facilities, which are defined as being in one of the following four classes:

1. **Class I Multiuse Trail –** a completely separated facility designed for the exclusive use of bicyclists and pedestrians with crossing points minimized.
2. **Class II Bike Lane –** a designated lane for the exclusive or semi-exclusive use of bicycles with through travel by motor vehicles or pedestrians prohibited, but with vehicle parking and cross-flows by pedestrians and motorists permitted.
3. **Class III Bike Route –** a route designated by signs or pavement markings and shared with pedestrians and motorists.
4. **Class IV Separated Bikeway –** an on-street facility reserved for use by bicyclists, with physical separation between the bikeway and travel lanes. Physical separation consists of vertical elements that may include curbs, landscaping, bollards, or parking lanes.

Sidewalks and Class II bike lanes are present along Oka Road. The project would construct a new five-foot-wide sidewalk with a planting strip, curb, on-street parking, and bike lane along the project site's frontage that would connect to the existing sidewalks and bike lanes along Oka Road. Thus, such facilities would be consistent with the existing Oka Road frontage. Overall, the proposed project would not result in substantial modification or the removal of any existing or planned bicycle or pedestrian facilities or preclude the implementation of such facilities in the project vicinity, and a less-than-significant impact would occur related to bicycle or pedestrian facilities.

Existing transit service to the Town is provided by the Santa Clara Valley Transportation Authority (VTA). VTA provides bus, light rail, and paratransit service throughout Santa Clara County, including Los Gatos. Buses are generally equipped with front-loading racks that can hold up to two bicycles. The nearest bus route is Route #27, which provides

[51] Subdivision (b)(2) of Section 15064.3 ("transportation projects") provides that "[t]ransportation projects that reduce, or have no impact on, vehicle miles traveled should be presumed to cause a less than significant transportation impact. For roadway capacity projects, agencies have discretion to determine the appropriate measure of transportation impact consistent with CEQA and other applicable requirements. To the extent that such impacts have already been adequately addressed at a programmatic level, such as in a regional transportation plan EIR, a lead agency may tier from that analysis as provided in Section 15152.

connection to the nearest light rail station. The nearest bus stops to the project site are located at the Winchester Boulevard/Lark Avenue intersection, approximately 0.27-mile west of the site.

A project is considered to have a significant impact on transit if the project conflicts with existing transit facilities, is expected to generate additional transit trips beyond the capacity of the existing transit system, or would conflict with a program or plan addressing transit facilities. The transit service within the Town operates within capacity, and the Transportation Analysis prepared for the proposed project anticipates a maximum of one new rider generated by the project. As such, the minor increase in additional trips that could occur as a result of the proposed project could be accommodated by existing bus services. In addition, the proposed project would not include any off-site roadway improvements that would affect existing transit or bicycle facilities. Therefore, the proposed project would not result in any significant impacts to the existing transit network.

Conclusion

Based on the above, the proposed project would not conflict with an applicable plan, ordinance, or policy addressing transit, bicycle, and pedestrian facilities, and a ***less-than-significant*** impact would occur.

b. 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. Other relevant considerations may include the effects of the project on transit and non-motorized travel. Pursuant to Section 15064.3(b)(3), a lead agency may analyze a project's VMT qualitatively based on the availability of transit, proximity to destinations, etc. While changes to driving conditions that increase intersection delay are an important consideration for traffic operations and management, the most appropriate method of analysis does not fully describe environmental effects associated with fuel consumption, emissions, and public health. Rather, Section 15064.3(3) changes the focus of CEQA transportation impact analysis from measuring impact to drivers to measuring the physical impact of driving.

According to the Transportation Analysis prepared for the proposed project and pursuant to Resolution 2020-045, the Town of Los Gatos has formally adopted numerical VMT thresholds as follows:

- A significant impact would occur if the total VMT per service population for a project would exceed a level of 11.3 percent below the total VMT per service population for the Town of Los Gatos baseline conditions; and/or
- A significant impact would occur if a project increases the total (boundary) County-wide VMT by 6.5 percent compared to baseline conditions.

As part of the Transportation Analysis, the proposed project was evaluated in accordance with the standards and methodologies set forth by the Town of Los Gatos and VTA's Congestion Management Program (CMP). A distinct Traffic Analysis Zone (TAZ) was added to the model's transportation network at the project site, and the proposed 138 residences were added to the model's land use database. A model run for the project was performed, and the resulting VMT per resident was calculated. The VMT per service population was modeled on the 2020 base year, and was calculated by dividing the daily

VMT generated by all existing development by the existing population. The Transportation Analysis identified a total VMT of 29.4 for the Town. As such, the applicable threshold is 26.1 daily VMT per service population (100 percent – 11.3 percent = 88.7 percent, and 88.7 percent x 29.4 VMT baseline = 26.1 VMT per service population).

The proposed project resulted in a total of 7,844 daily VMT, or 22.6 VMT per service population. Therefore, because 22.6 VMT is below the applicable threshold of 26.1, the Transportation Analysis concluded that project-generated VMT would not result in a significant impact. In addition, the generated trips would represent a 0.0211 percent increase in the total County-wide VMT, which is less than 6.5 percent of baseline conditions.

Based on the above, the proposed project is presumed to have a less-than-significant impact on VMT, and the proposed project would not conflict or be inconsistent with CEQA Guidelines Section 15064.3(b). Therefore, a ***less-than-significant*** impact would occur.

c,d. Several factors generally determine whether a project has sufficient access for emergency vehicles, including the number of access points (both public and emergency access only) and width of access points and internal roadways. Access to the project site would be provided by way of two new 26-foot-wide internal roadways connecting to Oka Road. Emergency response vehicles would be provided access by way of the same roadways. A width of 26 feet would provide consistency with Section 29.10.06702 of the Town's Municipal Code, which requires new subdivision streets to measure at least 24 feet in width if parking is prohibited on both sides. The proposed internal roadways would also sufficiently accommodate emergency response vehicles by exceeding the 20-foot-wide access and roadway width minimum required by the Santa Clara County Fire Department (see Figure 12). As such, the proposed project provides adequate emergency access to the site and the surrounding project area.

Additionally, according to the Transportation Analysis prepared for the proposed project, for the driveways on Oka Road, which has a posted speed limit of 25 mph, the Caltrans stopping sight distance is 200 feet (i.e., a driver must be able to see 200 feet down the roadway to locate a sufficient gap to turn out of the project driveway).

Roadway curves or physical obstructions are not present within 200 feet in either direction of the driveway locations on Oka Road that would obstruct the vision of exiting drivers. However, the proposed project would include the planting of large trees near the site entrances. Without sufficient maintenance of such landscaping trees, the sight lines of drivers exiting the project site could be obstructed. In addition, the Transportation Analysis identifies proposed frontage improvements as including construction of a curb to allow parking along Oka Road. Parked cars along both sides of the project entrances could also obstruct views of vehicles traveling along Oka Road, as well as obstruct views of drivers exiting the project site.

Based on the above, the proposed project could increase hazards due to design features or incompatible uses, and a ***potentially significant*** impact could occur.

Mitigation Measure(s)

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

Figure 12
Fire Access Plan

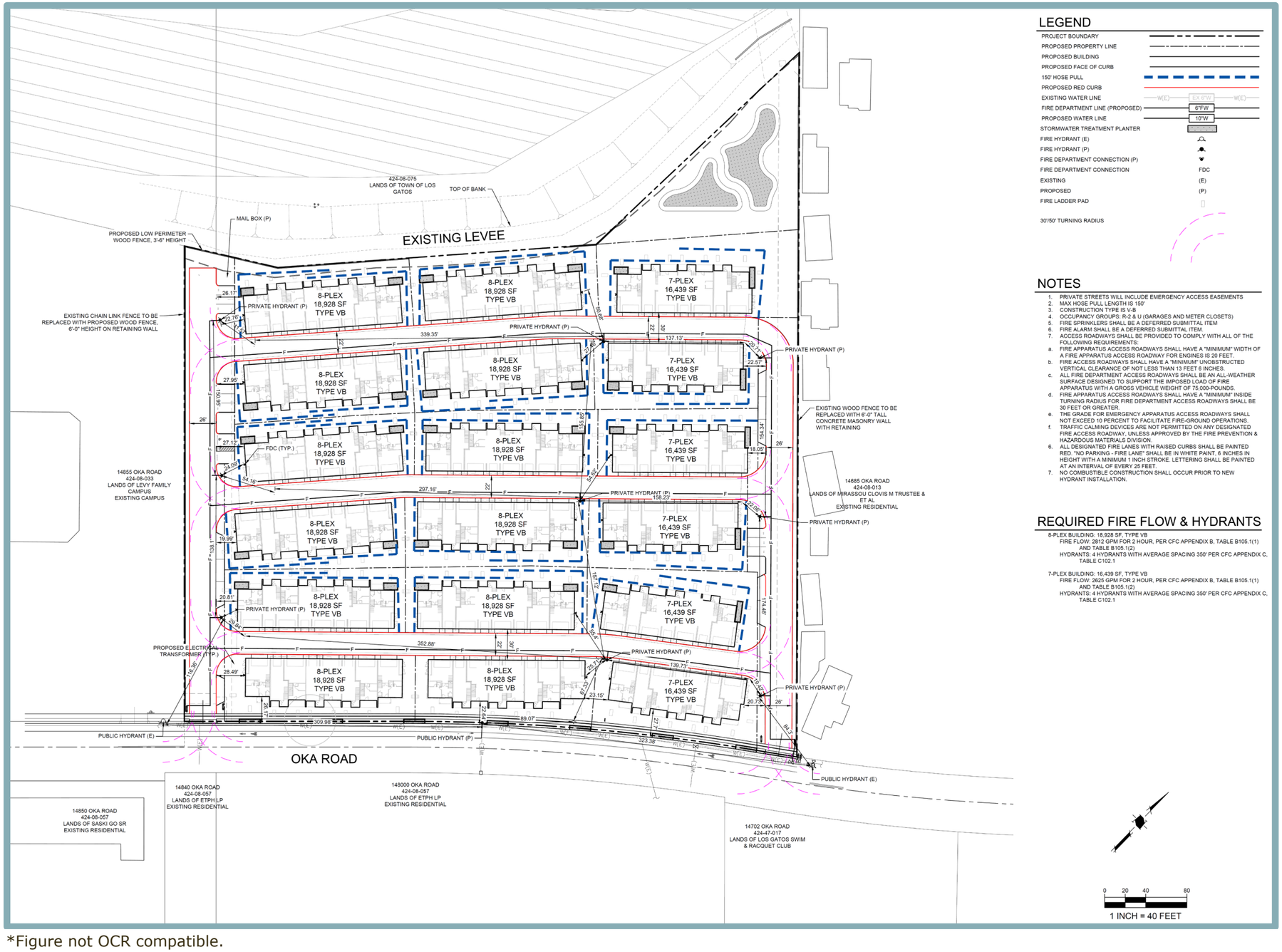


*Figure not OCR compatible.

XVII-1 *Prior to approval of final improvement plans, the plans shall include all relevant recommendations as included in the Transportation Analysis prepared by Hexagon Consultants, Inc., for the proposed project. Such recommendations shall include, but not be limited to, the following:*

- *Large landscaping trees planted near the project site entrances shall be maintained so that the tree canopies are above 10 feet high to preserve sightlines and ensure the sight of exiting drivers is not obstructed; and*
- *Red curb equal to at least one car length shall be striped adjacent to both sides of each entrance road along Oka Road.*

The foregoing recommendations shall be incorporated into the project design and construction to ensure the sight of drivers exiting the project site and driving along Oka Road shall not be obstructed. All project improvement plans shall be reviewed by a licensed engineer and approved by the Town of Los Gatos Engineering Division and the Town's Engineer.

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

Discussion

a,b. In compliance with AB 52 and SB 18, the Town of Los Gatos sent project notification letters to the Costanan, Northern Valley, Yokut, Bay Miwok, Ohlone, Patwin, Plains Miwok, Bay Miwok, Deltal, and Yokut Tribes on February 21, 2025. Requests for consultation were not received during the required consultation period.

As discussed in Section V, Cultural Resources, based on the results of CHRIS and NAHC searches, known archaeological resources, including tribal cultural resources or human remains, have not been previously documented at the project site. In addition, compliance with General Plan Policies OSP-1 through OSP-4 would generally help ensure that work would stop if archaeological resources (including tribal cultural resources) or human remains are identified during construction, but do not specify the appropriate course of action if such resources are discovered. The potential exists to uncover unknown tribal cultural resources during ground-disturbing activities associated with the proposed project. If previously unknown resources are encountered during construction activities, the proposed project could cause a substantial adverse change in the significance of tribal cultural resources, as defined in PRC Section 21074, during construction. As a result, without mitigation, a ***potentially significant*** impact could occur.

Mitigation Measure(s)

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

XVIII-1 Implement Mitigation Measures V-1 and V-2.

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

Discussion

a-c. Water, sanitary sewer, stormwater, electricity, and telecommunications services would be provided by way of new connections to existing infrastructure in the project area. Brief discussions of each are included below.

Water

Water utilities would be provided through new connections to existing utility lines within the project vicinity. The existing eight-inch water main within Oka Road would be extended into the project site from the Oka Road/Burroughs Road and Oka Road/Hayden Lane intersections in the corners of the project site.

Water supplies in the Town of Los Gatos are provided by SJW. Water supply is currently provided to SJW through a number of sources including purchased water from SCVWD, groundwater from the Santa Clara Subbasin, surface water, and recycled water. Groundwater currently accounts for approximately 30 to 40 percent of the SJW's water supplies; the majority of water supplied to SJW is through a treated water contract with SCVWD. Thus, SJW used information received from SCVWD to inform SJW's Water Supply Reliability Analysis. Based on the SCVWD 2020 UWMP, SCVWD will have sufficient supplies to meet SJW's and other retailers' demands through 2045 under average year, single dry year, and five consecutive dry year conditions, and under a Drought Risk Assessment (DRA) condition for a drought that lasts five consecutive years.[52] In addition, according to the SJW 2020 UWMP, water supplies are projected to meet expected demand for normal year, single-dry year, and multiple-dry year scenarios

[52] San Jose Water Company. *2020 Urban Water Management Plan*. June 2021.

through 2045.[53] Therefore, SJW would be able to continue purchasing water from SCVWD through all future scenarios.

As discussed in Section X, Hydrology and Water Quality, of this IS/MND, approximately 95 percent of the site is currently irrigated for the existing orchard use. Although the proposed 138 residences could increase water usage on-site beyond the existing water demand, such an increase in demand would not be considered substantial, as the Santa Clara Subbasin has an operational storage capacity of approximately 350,000 AF per year, and both SCVWD and SJW have sufficient water supplies through 2045. The project would also comply with Chapter 26.40 of the Town's Municipal Code, which contains the Town's Water Efficient Landscape Ordinance.

Based on the above, SJW would have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years.

Sewer Service

Sewer utilities would be provided through new connections to existing utility lines within the project vicinity, including a 20-inch sewer main located within Oka Road between Lots 16 and 17. Within the Town of Los Gatos, sewer service is provided by the West Valley Sanitation District. Wastewater treatment for the project site would occur at the San Jose/Santa Clara Water Pollution Control Plant (WPCP) located in Alviso. The WPCP has a licensed capacity of 167 million gallons per day (mgd) and treats an average of 110 mgd.[54]

While the proposed residential units would increase on-site wastewater generation, such an increase would not be considered substantial as the WPCP has a remaining capacity of 57 MGD. In addition, 2040 General Plan Policy PFS-2.1 ensures that the Town supports the West Valley Sanitation District's efforts to maintain wastewater conveyance, treatment, and disposal infrastructure in good working condition in order to supply municipal sewer service to the Town's residents and businesses. Thus, the West Valley Sanitation District would have adequate capacity to serve the wastewater demand projected for the proposed project in addition to the Town's existing commitments.

Stormwater Systems

Stormwater runoff from each lot would be directed through new storm drains installed within the internal roadways throughout the site, as well as a new 15-inch storm drain line within Oka Road. All on-site stormwater would be routed to two new bioretention basins in the northernmost portion of the site. The proposed stormwater basins would allow for runoff to infiltrate into the on-site soils for treatment. Treated stormwater from the bioretention basins would be collected and routed through new storm drains to the existing 42-inch storm drain line within Oka Road, near the northwest corner of the project site, which ultimately discharges to an existing outfall to Los Gatos Creek. As such, the proposed project would not require major relocation or expansion of any stormwater infrastructure as adequate stormwater facilities would be provided to serve the project.

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53 San Jose Water Company. *2020 Urban Water Management Plan*. June 2021.

54 City of San Jose. *San Jose-Santa Clara Regional Wastewater Facility*. Available at: https://www.sanjoseca.gov/your-government/departments-offices/environmental-services/water-utilities/regional-wastewater-facility. Accessed October 2023.

Other Utilities

Electric and telecommunications utilities would be provided by way of connections to existing infrastructure located within the immediate project vicinity. The proposed project would not require major upgrades to, or extension of, existing infrastructure. Thus, impacts to electricity and telecommunications infrastructure would be less than significant.

Conclusion

Based on the above, the utility infrastructure within the project vicinity has been designed with adequate capacity to accommodate demand from the proposed project. Therefore, the project would result in a ***less-than-significant*** impact related to the relocation or construction of new or expanded water, wastewater treatment, or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects.

d,e. Solid waste, recyclable materials, and compostable material collection within the Town of Los Gatos is provided through West Valley Collection and Recycling. Solid waste from the Town is ultimately disposed of at the Guadalupe Sanitary Landfill, located at 15999 Guadalupe Mines Road in San Jose. As of 2023, the landfill had approximately 7,518,220 cubic yards (CY) of remaining capacity, or 26.6 percent of the maximum permitted capacity of the landfill (28,238,855 CY).[55]

During operation of the future on-site residences, the residents would produce solid waste that would be collected by West Valley Collection and Recycling and transferred to the Guadalupe Sanitary Landfill. Operational solid waste generation from the 138 residential units has been estimated based on an average waste generation rate for multi-family residential development of 5.31 pounds per unit per day.[56] As such, the proposed project is anticipated to generate approximately 732.78 pounds of solid waste per day (138 units x 5.31 pounds per unit per day = 732.78), or 0.36 tons. Such a small contribution to the facility's total permitted capacity would not be considered a substantial amount of waste, and the facility has adequate capacity to accept such waste.

In addition, the project would be required to comply with all federal, State, and local statutes and regulations related to solid waste and recycling. Therefore, pursuant to the CALGreen Code, at least 65 percent of construction waste would be diverted.

Based on the above, the proposed project would not generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals and would comply with federal, State, and local management and reduction statutes and regulations related to solid waste. Thus, a ***less-than-significant*** impact related to solid waste would occur as a result of the proposed project.

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55 Department of Resources Recycling and Recovery. *SWIS Facility/Site Activity Details – Guadalupe Sanitary Landfill (43-AN-0015).* Available at: https://www2.calrecycle.ca.gov/SolidWaste/SiteActivity/Details/1376?siteID=3399. Accessed May 2025.

56 California Department of Resources Recycling and Recovery. *Estimated Solid Waste Generation Rates*. Available at: https://www2.calrecycle.ca.gov/WasteCharacterization/General/Rates. Accessed May 2025.

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

Discussion

a-d. According to maps prepared as part of the California Department of Forestry and Fire Protection (CAL FIRE) Fire and Resource Assessment Program, the project site is not located within an SRA nor within a Very High or High FHSZ, but rather, the site is located within a Local Responsibility Area (LRA).

Development of the proposed residential uses would include the clearing of on-site fuel sources and, thus, is not anticipated to increase wildfire risks at the site relative to the existing conditions within the project site. Additionally, the proposed project would be required to comply with all applicable requirements of the CFC, as adopted by Sections 11.04.080 and 11.04.085 of the Town's Municipal Code. Such requirements include the installation of fire sprinkler systems, fire hydrants, and other applicable requirements. The proposed project would also be situated near existing roads, water lines, and other utilities, which would reduce risks related to wildfire due to the existing development generally acting as a fuel break because of a lack of natural debris (e.g., vegetation) within developed sites.

Wildfire risks are not anticipated to be exacerbated during project operation, as residential uses typically do not involve operational components that would increase the risk of wildfire. Development of the site for residential uses would help to reduce the risk of wildland fire in the area due to site improvements, such as roadways, driveways, and irrigated landscaping, which would reduce readily combustible vegetation. In addition, all on-site project power lines would be underground. As noted in Section VII, Geology and Soils, of this IS/MND, the project site is relatively flat and does not contain slopes. As a result, the proposed project would not exacerbate wildfire risks due to slope.

As discussed in Section IX, Hazards and Hazardous Materials, of this IS/MND, implementation of the proposed project would not result in any substantial modifications to the existing roadway system and, thus, would not physically interfere with the Town's EOP, particularly with any emergency evacuation routes. Furthermore, the proposed project would not include land uses or operations that could impair implementation of the

plan. While the long-term maintenance of the proposed roadways, water and wastewater infrastructure, and other utilities would not exacerbate fire risks, the activities associated with the initial construction and placement of the utilities and infrastructure could cause a temporary increase in fire risks due to the use of heavy equipment, which would contain combustible materials such as fuels, oils, and ignition sources. However, the project contractor would be required to comply with all applicable health and safety standards, including the California Health and Safety Codes and local Town ordinances regulating the handling, storage, and transportation of hazardous materials. Compliance with such standards would help to minimize the potential for accidental conditions, including fire.

Therefore, the proposed project would not be expected to be subject to or result in substantial adverse effects related to wildfires, and a ***less-than-significant*** impact would occur.

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

Discussion

a. As discussed in Section IV, Biological Resources, of this IS/MND, while the potential exists for special-status bird species to occur on-site, Mitigation Measure IV-1 would ensure that impacts to such species would be less than significant. The project site does not contain any known historic or prehistoric resources. Thus, implementation of the proposed project is not anticipated to have the potential to result in impacts related to historic or prehistoric resources. Nevertheless, Mitigation Measures V-1 and V-2 would ensure that, in the event that archaeological or paleontological resources are discovered within the project site during construction activities, such resources are protected in compliance with the requirements of CEQA.

Considering the above, the proposed project would not: 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, a ***less-than-significant*** impact would occur.

b. The proposed project, in conjunction with other reasonably foreseeable development within the Town, could incrementally contribute to cumulative impacts in the area. The 2040 General Plan EIR evaluated the potential growth of up to 3,738 residential units, and the 6th Cycle Housing Element Update included 2,371 units. In addition, 16 projects within the Town are subject to SB 330 and/or Builder's Remedy. As of January 2026, four of the foregoing projects have been approved by the Town and 12 are currently under review. It is important to note that several of these SB 330 projects are identified Housing Element sites in the 6th Cycle Housing Element Update. These include the approved North40 Phase II (450 units), the approved Los Gatos Lodge (155 units), N40 "The Luxe" (120 units), ACE Property "The Arya" (175 units), the approved Genuine Automotive (55 units), Walnut Orchard (138 units), 76 Gas Station (23 units), and Happy Cleaners (10 units).

Impacts related to many of the resource areas addressed in this IS/MND are localized, site-specific, and/or project-specific, and are not cumulative in nature. For example, the creation of glare or shadows at one location is not worsened by glare or shadows created at another location. Projects that block a view or affect the visual quality of a site also typically have localized aesthetic impacts. Impacts to a subsurface archaeological find at one project site would not generally be made worse by impacts to a cultural or tribal cultural resource at another site due to development of another project. Rather, the resources and the effects upon them are generally independent. Similarly, impacts related to soil conditions at one project site are not worsened by impacts from development on another site with unstable soil conditions at another project site. Rather, the soil conditions, and the implications of such conditions for each project, are independent. Hazardous materials and other public health and safety issues are generally site- and/or project-specific as well, and would not be significantly affected by other development within the project area.

Furthermore, CEQA allows for a project's incremental contribution to a significant cumulative impact to be found less than cumulatively considerable. For a cumulative impact analysis pursuant to CEQA Guidelines Section 15130, the lead agency should generally undertake a two-step analysis. The first question is whether the *combined* effects from *both* the proposed project *and* other projects would be cumulatively significant. If the agency answers this inquiry in the affirmative, the second question is whether "the proposed project's *incremental* effects are cumulatively considerable." (*Communities for a Better Environment*, *supra*, 103 Cal.App.4th at p. 120 [emphasis added]). In other words, it is possible that the "cumulative impact" of multiple projects would be significant, but that the incremental contribution to that impact from a particular project may not itself be "cumulatively considerable." Thus, CEQA Guidelines Section 15064, subdivision (h)(5), states that "[t]he mere existence of significant cumulative impacts caused by other projects alone shall not constitute substantial evidence that the proposed project's incremental effects are cumulatively considerable." In conclusion, it is not necessarily true that, even where cumulative impacts are significant, *any* level of incremental contribution must be deemed cumulatively considerable. (*Communities for a Better Environment*, *supra*, 103 Cal.App.4th at p. 120.)

Based on the results of the preceding analysis, and the foregoing additional cumulative discussion, the proposed project is not anticipated to have a cumulatively considerable incremental contribution to significant cumulative impacts that may otherwise be caused by pending and approved projects.

With respect to cumulative transportation impacts, public concerns have been raised about increased congestion, particularly along Los Gatos Boulevard, where several of the SB 330 projects are located. Pursuant to the CEQA Guidelines Section 15064.3, environmental analysis documents must use VMT rather than LOS as the metric to analyze transportation impacts. Section 21099(b)(2) of the California PRC states that "automobile delay, as described solely by level of service or similar measures of vehicle capacity or traffic congestion, shall not be considered a significant impact on the environment." The State's requirement to transition from LOS to VMT is instead aimed at promoting infill development, public health through active transportation, and a reduction in GHG emissions. Overall, the transition from LOS alters the focus of CEQA analysis from congestion to more physical impacts on the environment related to vehicle trips. Accordingly, impacts related to traffic congestion are not required to be evaluated pursuant to CEQA and, thus, are appropriately not addressed herein.

With respect to cumulative noise impacts, the primary concern related to cumulative noise levels is increased traffic noise. As previously discussed, a doubling in traffic volumes is generally required to noticeably increase traffic noise levels. The project site is located in an area that is already primarily developed; any proposed or anticipated projects located near the project site only involve the redevelopment of already-developed parcels rather than any development of vacant sites. For example, the closest parcel with a pending application is located approximately 0.34-mile southwest of the project site at 980 University Avenue. The application for the parcel requests approval for the demolition of an existing commercial structure and construction of a new multi-family residential development. As such, undeveloped parcels in the project vicinity that could be developed and result in a doubling of traffic volumes on surrounding roadways do not exist. Thus, the project's increase in vehicle trips in addition to cumulative development within the Town would not combine to cause a significant impact not already identified in the Town's General Plan. In addition, the Town now has a Housing Element that has been deemed substantially compliant by the State. As a result, new Builder's Remedy applications within the Town will not occur.

With respect to water supply, the proposed residences would increase water usage on-site beyond the existing water demand. However, as discussed under question X-b,e and according to the 2020 UWMP, water supplies are projected to meet expected demand for normal year, single-dry year, and multiple-dry year scenarios through 2045.[57] As SJW's wholesale water supplier, SCVWD provides or manages the majority of SJW's water supplies. Thus, in its UWMP, SJW used information received from SCVWD to inform SJW's Water Supply Reliability Analysis. According to the SCVWD 2020 UWMP, after accounting for projected demand from existing and foreseeable development, SCVWD estimates having a surplus of at least 116,000 AF for normal years, at least 25,000 AF for single-dry years, and at least 10,000 AF for multiple-dry year scenarios through 2045.[58] Therefore, it is reasonable to conclude that sufficient water supply exists to accommodate the project's water supply in combination with other pending and approved projects within the Town of Los Gatos.

As demonstrated in this IS/MND, all potential environmental impacts that could occur as a result of project development would be reduced to a less-than-significant level through compliance with the mitigation measures included in this IS/MND, as well as applicable General Plan policies, Municipal Code standards, and other applicable local and State regulations, and would not result in adverse health or safety effects to existing or future residents in the area. Overall, with implementation of the mitigation measures included in this IS/MND and compliance with all applicable regulations, the project's incremental contribution towards any identified cumulative impacts would be less than cumulatively considerable.

Therefore, when viewed in conjunction with other closely related past, present, or reasonably foreseeable future projects, development of the proposed project would not result in a cumulatively considerable contribution to cumulative impacts in the Town of Los Gatos, and the project's incremental contribution to cumulative impacts would be ***less than significant***.

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57 San Jose Water Company. *2020 Urban Water Management Plan* [pg. 7-1]. June 2021.
58 Santa Clara Valley Water District. *2020 Urban Water Management Plan* [see Tables 7-2, 7-3, and 7-4]. June 2021.

c. As described in this IS/MND, although the project applicant has submitted an SB 330 preliminary application and has invoked the Builder's Remedy, the proposed project would comply with various General Plan policies, Municipal Code standards, other applicable local and State regulations, and would be required to comply with the mitigation measures included herein. In addition, as discussed in the Air Quality, Geology and Soils, Greenhouse Gas Emissions, Hazards and Hazardous Materials, and Noise sections of this IS/MND, the proposed project would not cause substantial effects to human beings, which cannot be mitigated to less-than-significant levels, including effects related to exposure to air pollutants, geologic hazards, GHG emissions, hazardous materials, and excessive noise. As such, the proposed project would not result in direct or indirect impacts to human beings and, thus, the project's impact would be ***less-than-significant***.

APPENDIX A

LAND EVALUATION AND SITE ASSESSMENT MODELING RESULTS

NOTES

Calculation of the Land Evaluation (LE) Score

Part 1. Land Capability Classification (LCC) Score:

(1) Determine the total acreage of the project.
(2) Determine the soil types within the project area and enter them in **Column A** of the **Land Evaluation Worksheet** provided on page 2-A.
(3) Calculate the total acres of each soil type and enter the amounts in **Column B**.
(4) Divide the acres of each soil type (**Column B**) by the total acreage to determine the proportion of each soil type present. Enter the proportion of each soil type in **Column C**.
(5) Determine the LCC for each soil type from the applicable Soil Survey and enter it in **Column D**.
(6) From the LCC Scoring Table below, determine the point rating corresponding to the LCC for each soil type and enter it in **Column E**.

LCC Scoring Table

LCC Class	I	IIe	IIs,w	IIIe	IIIs,w	IVe	IVs,w	V	VI	VII	VIII
Points	100	90	80	70	60	50	40	30	20	10	0

(7) Multiply the proportion of each soil type (**Column C**) by the point score (**Column E**) and enter the resulting scores in **Column F**.
(8) Sum the LCC scores in **Column F**.
(9) Enter the LCC score in box <1> of the **Final LESA Score Sheet** on page 10-A.

Part 2. Storie Index Score:

(1) Determine the Storie Index rating for each soil type and enter it in **Column G**.
(2) Multiply the proportion of each soil type (**Column C**) by the Storie Index rating (**Column G**) and enter the scores in **Column H**.
(3) Sum the Storie Index scores in **Column H** to gain the Storie Index Score.
(4) Enter the Storie Index Score in box <2> of the **Final LESA Score Sheet** on page 10-A.

Land Evaluation Worksheet

Land Capability Classification (LCC) and Storie Index Scores

A	B	C	D	E	F	G	H
Soil Map Unit	Project Acres	Proportion of Project Area	LCC	LCC Rating	LCC Score	Storie Index	Storie Index Score
168	6.6	.98	I	100	98	86.5	84.77
169	0.2	.02	I	100	2	0	0
Totals	6.8	(Must Sum to 1.0) 1.0		***LCC Total Score***	100	***Storie Index Total Score***	84.77

Site Assessment Worksheet 1.

Project Size Score

	I	J	K
	LCC Class I - II	LCC Class III	LCC Class IV - VIII
	6.6		
	0.2		
Total Acres	6.8		
Project Size Scores	0		

Highest Project Size Score 0

*Figure not OCR compatible.

NOTES

Calculation of the Site Assessment (SA) Score

Part 1. Project Size Score:.

(1) Using **Site Assessment Worksheet 1** provided on page 2-A, enter the acreage of each soil type from **Column B** in the **Column - I, J or K** - that corresponds to the LCC for that soil. (Note: While the Project Size Score is a component of the Site Assessment calculations, the score sheet is an extension of data collected in the Land Evaluation Worksheet, and is therefore displayed beside it).
(2) Sum **Column I** to determine the total amount of class I and II soils on the project site.
(3) Sum **Column J** to determine the total amount of class III soils on the project site.
(4) Sum **Column K** to determine the total amount of class IV and lower soils on the project site.
(5) Compare the total score for each LCC group in the Project Size Scoring Table below and determine which group receives the highest score.

Project Size Scoring Table

Class I or II		**Class III**		**Class IV or Lower**	
Acreage	Points	Acreage	Points	Acreage	Points
>80	100	>160	100	>320	100
60-79	90	120-159	90	240-319	80
40-59	80	80-119	80	160-239	60
20-39	50	60-79	70	100-159	40
10-19	30	40-59	60	40-99	20
10<	0	20-39	30	40<	0
		10-19	10		
		10<	0		

(6) Enter the **Project Size Score** (the highest score from the three LCC categories) in box <3> of the **Final LESA Score Sheet** on page 10-A.

NOTES

Part 2. Water Resource Availability Score:

(1) Determine the type(s) of irrigation present on the project site, including a determination of whether there is dryland agricultural activity as well.

(2) Divide the site into portions according to the type or types of irrigation or dryland cropping that is available in each portion. Enter this information in **Column B** of **Site Assessment Worksheet 2. - Water Resources Availability**.

(3) Determine the proportion of the total site represented for each portion identified, and enter this information in **Column C**.

(4) Using the Water Resources Availability Scoring Table, identify the option that is most applicable for each portion, based upon the feasibility of irrigation in drought and non-drought years, and whether physical or economic restrictions are likely to exist. Enter the applicable Water Resource Availability Score into **Column D**.

(5) Multiply the Water Resource Availability Score for each portion by the proportion of the project area it represents to determine the weighted score for each portion in **Column E**.

(6) Sum the scores for all portions to determine the project's total Water Resources Availability Score

(7) Enter the Water Resource Availability Score in box <4> of the **Final LESA Score Sheet** on page 10-A.

Site Assessment Worksheet 2. - Water Resources Availability

A	B	C	D	E
Project Portion	Water Source	Proportion of Project Area	Water Availability Score	Weighted Availability Score (C x D)
1	Well water	0.95	65	61.75
2	non-irrigated	0.05	0	0
3				
4				
5				
6				
		(Must Sum to 1.0)	***Total Water Resource Score***	61.75

*Figure not OCR compatible.

Water Resource Availability Scoring Table

Option	Non-Drought Years			Drought Years			WATER RESOURCE SCORE
	RESTRICTIONS			RESTRICTIONS			
	Irrigated Production Feasible?	Physical Restrictions ?	Economic Restrictions ?	Irrigated Production Feasible?	Physical Restrictions ?	Economic Restrictions ?	
1	YES	NO	NO	YES	NO	NO	100
2	YES	NO	NO	YES	NO	YES	95
3	YES	NO	YES	YES	NO	YES	90
4	YES	NO	NO	YES	YES	NO	85
5	YES	NO	NO	YES	YES	YES	80
6	YES	YES	NO	YES	YES	NO	75
7	YES	YES	YES	YES	YES	YES	65
8	YES	NO	NO	NO	-- --	-- --	50
9	YES	NO	YES	NO	-- --	-- --	45
10	YES	YES	NO	NO	-- --	-- --	35
11	YES	YES	YES	NO	-- --	-- --	30
12	Irrigated production not feasible, but rainfall adequate for dryland production in both drought and non-drought years						25
13	Irrigated production not feasible, but rainfall adequate for dryland production in non-drought years (but not in drought years)						20
14	Neither irrigated nor dryland production feasible						0

NOTES

Part 3. Surrounding Agricultural Land Use Score:

(1) Calculate the project's Zone of Influence (ZOI) as follows:

(a) a rectangle is drawn around the project such that the rectangle is the smallest that can completely encompass the project area.

(b) a second rectangle is then drawn which extends one quarter mile on all sides beyond the first rectangle.

(c) The ZOI includes all parcels that are contained within or are intersected by the second rectangle, less the area of the project itself.

(2) Sum the area of all parcels to determine the total acreage of the ZOI.

(3) Determine which parcels are in agricultural use and sum the areas of these parcels

(4) Divide the area in agriculture found in step (3) by the total area of the ZOI found in step (2) to determine the percent of the ZOI that is in agricultural use.

(5) Determine the Surrounding Agricultural Land Score utilizing the Surrounding Agricultural Land Scoring Table below.

Surrounding Agricultural Land Scoring Table

Percent of ZOI in Agriculture	Surrounding Agricultural Land Score
90-100	100
80-89	90
75-79	80
70-74	70
65-69	60
60-64	50
55-59	40
50-54	30
45-49	20
40-44	10
<40	0

(5) Enter the Surrounding Agricultural Land Score in box <5> of the **Final LESA Score Sheet** on page 10-A.

Site Assessment Worksheet 3.
Surrounding Agricultural Land and Surrounding Protected Resource Land

A	B	C	D	E	F	G
Zone of Influence					Surrounding Agricultural Land Score (From Table)	Surrounding Protected Resource Land Score (From Table)
Total Acres	Acres in Agriculture	Acres of Protected Resource Land	Percent in Agriculture (A/B)	Percent Protected Resource Land (A/C)		
275.1	26.7	12	9.7	4.3	0	0

NOTES

Part 4. Protected Resource Lands Score:

The Protected Resource Lands scoring relies upon the same Zone of Influence information gathered in Part 3, and figures are entered in Site Assessment Worksheet 3, which combines the surrounding agricultural and protected lands calculations.

(1) Use the total area of the ZOI calculated in Part 3. for the Surrounding Agricultural Land Use score.

(2) Sum the area of those parcels within the ZOI that are protected resource lands, as defined in the California Agricultural LESA Guidelines.

(3) Divide the area that is determined to be protected in Step (2) by the total acreage of the ZOI to determine the percentage of the surrounding area that is under resource protection.

(4) Determine the Surrounding Protected Resource Land Score utilizing the Surrounding Protected Resource Land Scoring Table below.

Surrounding Protected Resource Land Scoring Table

Percent of ZOI Protected	Protected Resource Land Score
90-100	100
80-89	90
75-79	80
70-74	70
65-69	60
60-64	50
55-59	40
50-54	30
45-49	20
40-44	10
<40	0

(5) Enter the Protected Resource Land score in box <6> of the **Final LESA Score Sheet** on page 10-A.

NOTES

Final LESA Score Sheet

Calculation of the Final LESA Score:

(1) Multiply each factor score by the factor weight to determine the weighted score and enter in Weighted Factor Scores column.
(2) Sum the weighted factor scores for the LE factors to determine the total LE score for the project.
(3) Sum the weighted factor scores for the SA factors to determine the total SA score for the project.
(4) Sum the total LE and SA scores to determine the Final LESA Score for the project.

	Factor Scores	Factor Weight	Weighted Factor Scores
LE Factors			
Land Capability Classification	*<1>* 100	0.25	25
Storie Index	*<2>* 84.77	0.25	21.19
LE Subtotal		***0.50***	46.19
SA Factors			
Project Size	*<3>* 0	0.15	0
Water Resource Availability	*<4>* 61.75	0.15	9.26
Surrounding Agricultural Land	*<5>* 0	0.15	0
Protected Resource Land	*<6>* 0	0.05	0
SA Subtotal		***0.50***	9.26
		Final LESA Score	55.45

*Figure not OCR compatible.

For further information on the scoring thresholds under the California Agricultural LESA Model, consult Section 4 of the Instruction Manual.

APPENDIX B

AIR QUALITY AND GREENHOUSE GAS MATERIALS

ILLINGWORTH & RODKIN, INC.
Acoustics • Air Quality

429 E. Cotati Ave
Cotati, CA 94931

Tel: 707-794-0400 *Fax: 707-794-0405*
www.illingworthrodkin.com *illro@illingworthrodkin.com*

M E M O

Date: April 23, 2025

To: **Erik Hayden**
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From: **Casey Divine**
Senior Consultant
Illingworth & Rodkin, Inc.
429 E. Cotati Ave
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SUBJECT: Oka Road Project, Los Gatos, CA –
Quantitative Analysis of Soil Hauling Increase
I&R Job# 24-134

Illingworth & Rodkin, Inc. (I&R) completed the Air Quality and Greenhouse Gas Assessment[1] for the Oka Road Development in Los Gatos, California in January 2025. The project proposes to clear the 6.71-acre project site and develop it with up to 138 townhome-style condominiums in 18 three-story buildings totaling 325,770 square feet. Each townhome would be equipped with a two-car garage and there would be 20 on-site guest parking spaces. Construction is anticipated to begin in January 2026 and be completed by March 2027. The project now proposes changes to the soil hauling amount that was not analyzed in the January 2025 report. This memo addresses how the proposed change to soil hauling amounts would affect the air quality impacts discussed in the January 2025 report .

The original project proposed to import 9,148 cubic yards (cy) of soil, and now the updated project would import approximately 15,000-cy of soil. The CalEEMod models for the original air quality analysis were re-run to include the updated 15,000-cy of imported soil. As indicated

[1] Illingworth & Rodkin, Inc., *Oka Road Development Air Quality and Greenhouse Gas Assessment*, January 14, 2025.

in Table 1, the additional soil hauling would result in a 0.01 pounds per day increase in ROG emissions and a 0.20 pounds per day increase in NOx emissions as compared to the January 2025 results. The updated unmitigated average project construction emissions would still not exceed the Air District's significance thresholds.

Table 1. Updated Construction Period Emissions

Year	ROG	NOx	PM_{10} Exhaust	$PM_{2.5}$ Exhaust
Construction Emissions Total (Tons)				
2026-2027	2.52	1.91	0.07	0.06
Average Daily Construction Emissions (pounds/day)				
2026-2027 (322 construction workdays)	15.65	11.86	0.43	0.40
BAAQMD Thresholds (pounds per day)	*54* lbs./day	*54* lbs./day	*82* lbs./day	*54* lbs./day
Exceed Threshold?	No	No	No	No
Net Increase from Original Emissions	*0.01*	*0.20*	-	-

The diesel particulate matter (DPM, PM_{10}) emissions were calculated to be 0.07 tons (136 pounds) and the fugitive dust emissions ($PM_{2.5}$) were calculated to be 0.03 tons (69 pounds) from all construction stages. The updated DPM emissions were the same as previously predicted and the updated $PM_{2.5}$ emissions would result in a 0.1 pounds per day increase from what was calculated in the January 2025 health risk analysis. Therefore, the negligible increase in health risk concentrations due to the updated soil hauling volumes would not change the findings of the January 2025 health risk analysis. With the implementation of the *Mitigation Measure AQ-1* from the January 2025 report and the Town's General Plan Policy ENV-8.9 for dust control, the mitigated health risk impacts would still not exceed the Air District's significance thresholds. The CalEEMod model outputs are included in *Attachment 1*.

Supporting Documentation

Attachment 1 includes the CalEEMod outputs for project construction criteria air and health risk pollutants.

Attachment 1: CalEEMod Outputs

24-134 Oka Road Development, Los Gatos BMPs T4F Inc Soil Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	24-134 Oka Road Development, Los Gatos BMPs T4F Inc Soil
Construction Start Date	1/1/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	12.8
Location	Oka Rd, Los Gatos, CA 95032, USA
County	Santa Clara
City	Los Gatos
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1786
EDFZ	1
Electric Utility	Silicon Valley Clean Energy
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Condo/Townhouse	138	Dwelling Unit	6.71	325,770	77,650	—	413	—
Parking Lot	20.0	Space	0.00	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Unmit.	1.40	10.6	0.38	0.93	1.32	0.35	0.22	0.58	3,689
Mit.	0.66	3.55	0.08	0.93	1.01	0.08	0.22	0.30	3,689
% Reduced	53%	66%	79%	—	23%	78%	—	48%	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Unmit.	230	29.2	1.24	7.81	9.05	1.14	3.97	5.12	10,473
Mit.	229	11.4	0.15	7.81	7.91	0.15	3.97	4.07	10,473
% Reduced	< 0.5%	61%	88%	—	13%	87%	—	20%	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—
Unmit.	12.7	9.40	0.34	1.01	1.35	0.32	0.34	0.65	3,001
Mit.	12.6	3.00	0.06	1.01	1.07	0.06	0.34	0.40	3,001
% Reduced	1%	68%	82%	—	21%	81%	—	39%	—
Annual (Max)	—	—	—	—	—	—	—	—	—
Unmit.	2.32	1.71	0.06	0.18	0.25	0.06	0.06	0.12	497
Mit.	2.30	0.55	0.01	0.18	0.19	0.01	0.06	0.07	497
% Reduced	1%	68%	82%	—	21%	81%	—	39%	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—
2026	1.40	10.6	0.38	0.93	1.32	0.35	0.22	0.58	3,689
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—
2026	3.19	29.2	1.24	7.81	9.05	1.14	3.97	5.12	10,473
2027	230	10.2	0.34	0.93	1.27	0.32	0.22	0.54	3,601
Average Daily	—	—	—	—	—	—	—	—	—
2026	1.10	9.40	0.34	1.01	1.35	0.32	0.34	0.65	3,001
2027	12.7	1.06	0.04	0.08	0.11	0.04	0.02	0.05	340
Annual	—	—	—	—	—	—	—	—	—
2026	0.20	1.71	0.06	0.18	0.25	0.06	0.06	0.12	497
2027	2.32	0.19	0.01	0.01	0.02	0.01	< 0.005	0.01	56.3

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—
2026	0.66	3.55	0.08	0.93	1.01	0.08	0.22	0.30	3,689
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—
2026	0.62	11.4	0.15	7.81	7.91	0.15	3.97	4.07	10,473
2027	229	3.58	0.08	0.93	1.01	0.08	0.22	0.30	3,601
Average Daily	—	—	—	—	—	—	—	—	—
2026	0.42	3.00	0.06	1.01	1.07	0.06	0.34	0.40	3,001

2027	12.6	0.38	0.01	0.08	0.08	0.01	0.02	0.02	340
Annual	—	—	—	—	—	—	—	—	—
2026	0.08	0.55	0.01	0.18	0.19	0.01	0.06	0.07	497
2027	2.30	0.07	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	56.3

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.29	20.7	0.84	—	0.84	0.78	—	0.78	3,438
Demolition	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	1.13	0.05	—	0.05	0.04	—	0.04	188
Demolition	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.21	0.01	—	0.01	0.01	—	0.01	31.2
Demolition	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.00	0.12	0.12	0.00	0.03	0.03	118
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.12	< 0.005	0.02	0.03	< 0.005	0.01	0.01	95.1
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	6.57
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.21
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.86

3.2. Demolition (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	4.51	0.06	—	0.06	0.06	—	0.06	3,438
Demolition	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.25	< 0.005	—	< 0.005	< 0.005	—	< 0.005	188
Demolition	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	31.2
Demolition	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.00	0.12	0.12	0.00	0.03	0.03	118
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.12	< 0.005	0.02	0.03	< 0.005	0.01	0.01	95.1
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	6.57
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.21
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.86

3.3. Site Preparation (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.14	29.2	1.24	—	1.24	1.14	—	1.14	5,316
Dust From Material Movement	—	—	—	7.67	7.67	—	3.94	3.94	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.80	0.03	—	0.03	0.03	—	0.03	146
Dust From Material Movement	—	—	—	0.21	0.21	—	0.11	0.11	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.15	0.01	—	0.01	0.01	—	0.01	24.1
Dust From Material Movement	—	—	—	0.04	0.04	—	0.02	0.02	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.00	0.14	0.14	0.00	0.03	0.03	138
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.83
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.63
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	2.59	0.10	—	0.10	0.10	—	0.10	5,316
Dust From Material Movement	—	—	—	7.67	7.67	—	3.94	3.94	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	< 0.005	—	< 0.005	< 0.005	—	< 0.005	146
Dust From Material Movement	—	—	—	0.21	0.21	—	0.11	0.11	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	24.1
Dust From Material Movement	—	—	—	0.04	0.04	—	0.02	0.02	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.00	0.14	0.14	0.00	0.03	0.03	138
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.83
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.63
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.65	15.0	0.65	—	0.65	0.59	—	0.59	2,970
Dust From Material Movement	—	—	—	2.78	2.78	—	1.34	1.34	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.82	0.04	—	0.04	0.03	—	0.03	163
Dust From Material Movement	—	—	—	0.15	0.15	—	0.07	0.07	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.15	0.01	—	0.01	0.01	—	0.01	26.9
Dust From Material Movement	—	—	—	0.03	0.03	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.00	0.12	0.12	0.00	0.03	0.03	118
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.14	8.53	0.08	1.74	1.82	0.08	0.48	0.56	6,912
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	6.57
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.46	< 0.005	0.09	0.10	< 0.005	0.03	0.03	379

Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.08	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	62.7

3.6. Grading (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	2.04	0.06	—	0.06	0.06	—	0.06	2,970
Dust From Material Movement	—	—	—	2.78	2.78	—	1.34	1.34	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.11	< 0.005	—	< 0.005	< 0.005	—	< 0.005	163
Dust From Material Movement	—	—	—	0.15	0.15	—	0.07	0.07	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	26.9
Dust From Material Movement	—	—	—	0.03	0.03	—	0.01	0.01	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.00	0.12	0.12	0.00	0.03	0.03	118
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.14	8.53	0.08	1.74	1.82	0.08	0.48	0.56	6,912
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	6.57
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.46	< 0.005	0.09	0.10	< 0.005	0.03	0.03	379
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.08	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	62.7

3.7. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	9.85	0.38	—	0.38	0.35	—	0.35	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.07	9.85	0.38	—	0.38	0.35	—	0.35	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.61	5.63	0.22	—	0.22	0.20	—	0.20	1,375
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	1.03	0.04	—	0.04	0.04	—	0.04	228
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.31	0.21	0.00	0.82	0.82	0.00	0.19	0.19	848
Vendor	0.01	0.48	0.01	0.10	0.11	0.01	0.03	0.03	410
Hauling	< 0.005	0.03	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	25.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.28	0.28	0.00	0.82	0.82	0.00	0.19	0.19	785
Vendor	0.01	0.51	0.01	0.10	0.11	0.01	0.03	0.03	409
Hauling	< 0.005	0.03	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	25.8
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.16	0.14	0.00	0.47	0.47	0.00	0.11	0.11	454
Vendor	0.01	0.29	< 0.005	0.06	0.06	< 0.005	0.02	0.02	234
Hauling	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	14.8
Annual	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.00	0.08	0.08	0.00	0.02	0.02	75.1
Vendor	< 0.005	0.05	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	38.7
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.44

3.8. Building Construction (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	2.82	0.07	—	0.07	0.07	—	0.07	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	2.82	0.07	—	0.07	0.07	—	0.07	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	1.61	0.04	—	0.04	0.04	—	0.04	1,375
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.29	0.01	—	0.01	0.01	—	0.01	228
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.31	0.21	0.00	0.82	0.82	0.00	0.19	0.19	848
Vendor	0.01	0.48	0.01	0.10	0.11	0.01	0.03	0.03	410
Hauling	< 0.005	0.03	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	25.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.28	0.28	0.00	0.82	0.82	0.00	0.19	0.19	785

Vendor	0.01	0.51	0.01	0.10	0.11	0.01	0.03	0.03	409
Hauling	< 0.005	0.03	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	25.8
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.16	0.14	0.00	0.47	0.47	0.00	0.11	0.11	454
Vendor	0.01	0.29	< 0.005	0.06	0.06	< 0.005	0.02	0.02	234
Hauling	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	14.8
Annual	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.00	0.08	0.08	0.00	0.02	0.02	75.1
Vendor	< 0.005	0.05	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	38.7
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.44

3.9. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	9.39	0.34	—	0.34	0.31	—	0.31	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.57	0.02	—	0.02	0.02	—	0.02	146
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	< 0.005	—	< 0.005	< 0.005	—	< 0.005	24.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.27	0.25	0.00	0.82	0.82	0.00	0.19	0.19	770
Vendor	0.01	0.49	0.01	0.10	0.11	0.01	0.03	0.03	401
Hauling	< 0.005	0.03	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	25.2
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.00	0.05	0.05	0.00	0.01	0.01	47.3
Vendor	< 0.005	0.03	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	24.3
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.53
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	7.83
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.03
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.25

3.10. Building Construction (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	2.82	0.07	—	0.07	0.07	—	0.07	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.17	< 0.005	—	< 0.005	< 0.005	—	< 0.005	146
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	24.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.27	0.25	0.00	0.82	0.82	0.00	0.19	0.19	770
Vendor	0.01	0.49	0.01	0.10	0.11	0.01	0.03	0.03	401
Hauling	< 0.005	0.03	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	25.2
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.00	0.05	0.05	0.00	0.01	0.01	47.3
Vendor	< 0.005	0.03	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	24.3
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.53
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	7.83
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.03
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.25

3.11. Paving (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.74	6.94	0.30	—	0.30	0.27	—	0.27	1,516
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.38	0.02	—	0.02	0.02	—	0.02	83.1
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	< 0.005	—	< 0.005	< 0.005	—	< 0.005	13.8
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.00	0.12	0.12	0.00	0.03	0.03	116
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.34	< 0.005	0.07	0.08	< 0.005	0.02	0.02	281
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	6.45
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	15.4
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.55

3.12. Paving (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	1.93	0.03	—	0.03	0.03	—	0.03	1,516
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.11	< 0.005	—	< 0.005	< 0.005	—	< 0.005	83.1
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	13.8
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.00	0.12	0.12	0.00	0.03	0.03	116
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.01	0.34	< 0.005	0.07	0.08	< 0.005	0.02	0.02	281
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	6.45
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	15.4
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.55

3.13. Architectural Coating (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.83	0.02	—	0.02	0.02	—	0.02	134
Architectural Coatings	229	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.34
Architectural Coatings	12.6	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.22
Architectural Coatings	2.29	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.00	0.16	0.16	0.00	0.04	0.04	154
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	8.54
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.41
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.65	< 0.005	—	< 0.005	< 0.005	—	< 0.005	134
Architectural Coatings	229	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.34
Architectural Coatings	12.6	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.22
Architectural Coatings	2.29	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.00	0.16	0.16	0.00	0.04	0.04	154
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	8.54
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.41

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Trenching (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	1.86	0.06	—	0.06	0.05	—	0.05	433
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	< 0.005	—	< 0.005	< 0.005	—	< 0.005	23.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.93
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.04	0.04	0.00	0.01	0.01	39.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.19
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.36
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Trenching (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.81	0.01	—	0.01	0.01	—	0.01	433
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	23.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.93
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.04	0.04	0.00	0.01	0.01	39.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.19
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.36
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	1/1/2026	1/29/2026	5.00	20.0	—
Site Preparation	Site Preparation	1/30/2026	2/13/2026	5.00	10.0	—
Grading	Grading	2/14/2026	3/14/2026	5.00	20.0	—
Building Construction	Building Construction	3/15/2026	1/31/2027	5.00	230	—
Paving	Paving	3/1/2027	3/26/2027	5.00	20.0	—
Architectural Coating	Architectural Coating	2/1/2027	2/28/2027	5.00	20.0	—
Trenching	Trenching	2/14/2026	3/14/2026	5.00	20.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38

Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48
Trenching	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Trenching	Excavators	Diesel	Average	1.00	8.00	36.0	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40

Site Preparation	Tractors/Loaders/Back	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Final	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48
Trenching	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Trenching	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	1.29	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT

Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	93.8	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	99.4	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	14.8	8.40	HHDT,MHDT
Building Construction	Hauling	0.35	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.7	LDA,LDT1,LDT2
Paving	Vendor	—	8.40	HHDT,MHDT
Paving	Hauling	3.90	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	19.9	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	5.00	11.7	LDA,LDT1,LDT2
Trenching	Vendor	—	8.40	HHDT,MHDT

Trenching	Hauling	0.00	20.0	HHDT
Trenching	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	1.29	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	93.8	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	99.4	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	14.8	8.40	HHDT,MHDT
Building Construction	Hauling	0.35	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.7	LDA,LDT1,LDT2
Paving	Vendor	—	8.40	HHDT,MHDT

Paving	Hauling	3.90	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	19.9	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	5.00	11.7	LDA,LDT1,LDT2
Trenching	Vendor	—	8.40	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	659,684	219,895	0.00	0.00	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	—	—
Site Preparation	—	—	15.0	0.00	—

Grading	15,000	—	20.0	0.00	—
Paving	0.00	0.00	0.00	0.00	0.00

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Condo/Townhouse	—	0%
Parking Lot	0.00	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	2.34	0.00	0.00
2027	0.00	2.34	0.00	0.00

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	12.6	annual days of extreme heat
Extreme Precipitation	5.85	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A

Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	22.2
AQ-PM	12.5
AQ-DPM	56.8
Drinking Water	22.7
Lead Risk Housing	38.4
Pesticides	0.00
Toxic Releases	31.8
Traffic	76.7
Effect Indicators	—
CleanUp Sites	62.4
Groundwater	89.2

Haz Waste Facilities/Generators	91.4
Impaired Water Bodies	23.9
Solid Waste	0.00
Sensitive Population	—
Asthma	4.36
Cardio-vascular	4.80
Low Birth Weights	0.50
Socioeconomic Factor Indicators	—
Education	4.21
Housing	10.5
Linguistic	4.59
Poverty	11.9
Unemployment	26.9

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	96.81765687
Employed	97.20261773
Median HI	96.0733992
Education	—
Bachelor's or higher	86.86000257
High school enrollment	100
Preschool enrollment	83.44668292
Transportation	—
Auto Access	82.44578468
Active commuting	1.039394328

Social	—
2-parent households	32.69600924
Voting	93.91761838
Neighborhood	—
Alcohol availability	85.19183883
Park access	48.62055691
Retail density	71.93635314
Supermarket access	39.26600796
Tree canopy	90.2219941
Housing	—
Homeownership	39.09919158
Housing habitability	94.64904401
Low-inc homeowner severe housing cost burden	97.72873091
Low-inc renter severe housing cost burden	96.49685615
Uncrowded housing	82.07365584
Health Outcomes	—
Insured adults	88.86179905
Arthritis	0.0
Asthma ER Admissions	94.9
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	89.3
Cognitively Disabled	56.3
Physically Disabled	87.9

Heart Attack ER Admissions	94.9
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	91.6
Elderly	42.6
English Speaking	69.6
Foreign-born	27.9
Outdoor Workers	47.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	65.7
Traffic Density	76.9
Traffic Access	23.0
Other Indices	—
Hardship	6.4
Other Decision Support	—
2016 Voting	87.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	1.00
Healthy Places Index Score for Project Location (b)	96.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Los Gatos default clean energy provider is Silicon Valley Clean Energy.
Construction: Construction Phases	Defaults based on inputted land use. Added trenching.
Land Use	Total lot acreage, number of units and parking spaces, building square footage, and landscape area provided from "241025 Submittal Plan Set (compressed)_14789 Oka Road (4).pdf.
Construction: Off-Road Equipment	Defaults based on land use. Reviewed and confirmed by applicant.
Construction: Trips and VMT	Demolition = 129 tons of pavement demo'ed and hauled (1.29 trips/day), Building Construction = 40 concrete truck round trips (0.35 trips/day), Paving = 322-cy of asphalt (3.9 trips/day).
Construction: On-Road Fugitive Dust	Air District recommended BMPs 15 mph - required by Los Altos GP.
Operations: Hearths	No hearths

Operations: Water and Waste Water	Wastewater treatment 100% aerobic - no septic tanks or lagoons.
Operations: Energy Use	According to project applicant, project will use no natural gas and be all-electric. Converted natural gas for land use to electricity.

24-134 Oka Road Development, Los Gatos BMPs T4F HRA Inc Soil Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	24-134 Oka Road Development, Los Gatos BMPs T4F HRA Inc Soil
Construction Start Date	1/1/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	12.8
Location	Oka Rd, Los Gatos, CA 95032, USA
County	Santa Clara
City	Los Gatos
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1786
EDFZ	1
Electric Utility	Silicon Valley Clean Energy
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Condo/Townhouse	138	Dwelling Unit	6.71	325,770	77,650	—	413	—
Parking Lot	20.0	Space	0.00	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Unmit.	1.34	10.1	0.38	0.04	0.42	0.35	0.01	0.36	2,501
Mit.	0.60	3.05	0.08	0.04	0.12	0.07	0.01	0.08	2,501
% Reduced	55%	70%	80%	—	72%	79%	—	77%	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Unmit.	230	29.2	1.24	7.67	8.91	1.14	3.94	5.08	5,325
Mit.	229	4.54	0.10	7.67	7.77	0.10	3.94	4.04	5,325
% Reduced	< 0.5%	84%	92%	—	13%	91%	—	21%	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—
Unmit.	12.7	8.71	0.34	0.39	0.72	0.31	0.19	0.50	1,968
Mit.	12.6	2.31	0.05	0.39	0.44	0.05	0.19	0.24	1,968
% Reduced	1%	73%	84%	—	39%	83%	—	52%	—
Annual (Max)	—	—	—	—	—	—	—	—	—
Unmit.	2.32	1.59	0.06	0.07	0.13	0.06	0.03	0.09	326
Mit.	2.30	0.42	0.01	0.07	0.08	0.01	0.03	0.04	326
% Reduced	1%	73%	84%	—	39%	83%	—	52%	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—
2026	1.34	10.1	0.38	0.04	0.42	0.35	0.01	0.36	2,501
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—
2026	3.19	29.2	1.24	7.67	8.91	1.14	3.94	5.08	5,325
2027	230	9.64	0.34	0.04	0.38	0.31	0.01	0.32	2,497
Average Daily	—	—	—	—	—	—	—	—	—
2026	1.08	8.71	0.34	0.39	0.72	0.31	0.19	0.50	1,968
2027	12.7	1.01	0.04	< 0.005	0.04	0.03	< 0.005	0.04	244
Annual	—	—	—	—	—	—	—	—	—
2026	0.20	1.59	0.06	0.07	0.13	0.06	0.03	0.09	326
2027	2.32	0.19	0.01	< 0.005	0.01	0.01	< 0.005	0.01	40.3

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—
2026	0.60	3.05	0.08	0.04	0.12	0.07	0.01	0.08	2,501
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—
2026	0.59	4.54	0.10	7.67	7.77	0.10	3.94	4.04	5,325
2027	229	3.06	0.07	0.04	0.12	0.07	0.01	0.08	2,497
Average Daily	—	—	—	—	—	—	—	—	—
2026	0.40	2.31	0.05	0.39	0.44	0.05	0.19	0.24	1,968

2027	12.6	0.33	0.01	< 0.005	0.01	0.01	< 0.005	0.01	244
Annual	—	—	—	—	—	—	—	—	—
2026	0.07	0.42	0.01	0.07	0.08	0.01	0.03	0.04	326
2027	2.30	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	40.3

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.29	20.7	0.84	—	0.84	0.78	—	0.78	3,438
Demolition	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	1.13	0.05	—	0.05	0.04	—	0.04	188
Demolition	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.21	0.01	—	0.01	0.01	—	0.01	31.2
Demolition	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	8.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.59
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.43
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.25
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.04

3.2. Demolition (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	4.51	0.06	—	0.06	0.06	—	0.06	3,438
Demolition	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.25	< 0.005	—	< 0.005	< 0.005	—	< 0.005	188
Demolition	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	31.2
Demolition	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	8.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.59
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.43
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.25
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.04

3.3. Site Preparation (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.14	29.2	1.24	—	1.24	1.14	—	1.14	5,316
Dust From Material Movement	—	—	—	7.67	7.67	—	3.94	3.94	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.80	0.03	—	0.03	0.03	—	0.03	146
Dust From Material Movement	—	—	—	0.21	0.21	—	0.11	0.11	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.15	0.01	—	0.01	0.01	—	0.01	24.1
Dust From Material Movement	—	—	—	0.04	0.04	—	0.02	0.02	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	9.33
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.25
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.04
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	2.59	0.10	—	0.10	0.10	—	0.10	5,316
Dust From Material Movement	—	—	—	7.67	7.67	—	3.94	3.94	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	< 0.005	—	< 0.005	< 0.005	—	< 0.005	146
Dust From Material Movement	—	—	—	0.21	0.21	—	0.11	0.11	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	24.1
Dust From Material Movement	—	—	—	0.04	0.04	—	0.02	0.02	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	9.33
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.25
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.04
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.65	15.0	0.65	—	0.65	0.59	—	0.59	2,970
Dust From Material Movement	—	—	—	2.78	2.78	—	1.34	1.34	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.82	0.04	—	0.04	0.03	—	0.03	163
Dust From Material Movement	—	—	—	0.15	0.15	—	0.07	0.07	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.15	0.01	—	0.01	0.01	—	0.01	26.9
Dust From Material Movement	—	—	—	0.03	0.03	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	8.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.06	1.56	< 0.005	0.04	0.05	< 0.005	0.01	0.01	333
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.43
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	18.2

Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.01

3.6. Grading (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	2.04	0.06	—	0.06	0.06	—	0.06	2,970
Dust From Material Movement	—	—	—	2.78	2.78	—	1.34	1.34	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.11	< 0.005	—	< 0.005	< 0.005	—	< 0.005	163
Dust From Material Movement	—	—	—	0.15	0.15	—	0.07	0.07	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	26.9
Dust From Material Movement	—	—	—	0.03	0.03	—	0.01	0.01	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	8.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.06	1.56	< 0.005	0.04	0.05	< 0.005	0.01	0.01	333
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.43
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	18.2
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.01

3.7. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	9.85	0.38	—	0.38	0.35	—	0.35	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.07	9.85	0.38	—	0.38	0.35	—	0.35	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.61	5.63	0.22	—	0.22	0.20	—	0.20	1,375
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	1.03	0.04	—	0.04	0.04	—	0.04	228
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.27	0.06	0.00	0.04	0.04	0.00	0.01	0.01	54.4
Vendor	0.01	0.16	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	39.6
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.24
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.25	0.08	0.00	0.04	0.04	0.00	0.01	0.01	53.0
Vendor	0.01	0.17	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	39.8
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.24
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.14	0.04	0.00	0.02	0.02	0.00	< 0.005	< 0.005	30.0
Vendor	< 0.005	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	22.7
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.71
Annual	—	—	—	—	—	—	—	—	—
Worker	0.03	0.01	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	4.96
Vendor	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.75
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.12

3.8. Building Construction (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	2.82	0.07	—	0.07	0.07	—	0.07	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	2.82	0.07	—	0.07	0.07	—	0.07	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	1.61	0.04	—	0.04	0.04	—	0.04	1,375
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.29	0.01	—	0.01	0.01	—	0.01	228
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.27	0.06	0.00	0.04	0.04	0.00	0.01	0.01	54.4
Vendor	0.01	0.16	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	39.6
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.24
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.25	0.08	0.00	0.04	0.04	0.00	0.01	0.01	53.0

Vendor	0.01	0.17	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	39.8
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.24
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.14	0.04	0.00	0.02	0.02	0.00	< 0.005	< 0.005	30.0
Vendor	< 0.005	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	22.7
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.71
Annual	—	—	—	—	—	—	—	—	—
Worker	0.03	0.01	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	4.96
Vendor	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.75
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.12

3.9. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	9.39	0.34	—	0.34	0.31	—	0.31	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.57	0.02	—	0.02	0.02	—	0.02	146
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	< 0.005	—	< 0.005	< 0.005	—	< 0.005	24.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.24	0.07	0.00	0.04	0.04	0.00	0.01	0.01	51.3
Vendor	0.01	0.17	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	39.1
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.22
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.12
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.37
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.07
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.52
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.39
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01

3.10. Building Construction (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	2.82	0.07	—	0.07	0.07	—	0.07	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.17	< 0.005	—	< 0.005	< 0.005	—	< 0.005	146
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	24.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.24	0.07	0.00	0.04	0.04	0.00	0.01	0.01	51.3
Vendor	0.01	0.17	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	39.1
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.22
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.12
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.37
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.07
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.52
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.39
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01

3.11. Paving (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.74	6.94	0.30	—	0.30	0.27	—	0.27	1,516
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.38	0.02	—	0.02	0.02	—	0.02	83.1
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	< 0.005	—	< 0.005	< 0.005	—	< 0.005	13.8
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	7.75
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	13.6
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.43
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.74
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.12

3.12. Paving (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	1.93	0.03	—	0.03	0.03	—	0.03	1,516
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.11	< 0.005	—	< 0.005	< 0.005	—	< 0.005	83.1
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	13.8
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	7.75
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	< 0.005	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	13.6
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.43
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.74
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.12

3.13. Architectural Coating (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.83	0.02	—	0.02	0.02	—	0.02	134
Architectural Coatings	229	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.34
Architectural Coatings	12.6	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.22
Architectural Coatings	2.29	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.05	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	10.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.56
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.65	< 0.005	—	< 0.005	< 0.005	—	< 0.005	134
Architectural Coatings	229	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.34
Architectural Coatings	12.6	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.22
Architectural Coatings	2.29	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.05	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	10.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.56
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.09

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Trenching (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	1.86	0.06	—	0.06	0.05	—	0.05	433
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	< 0.005	—	< 0.005	< 0.005	—	< 0.005	23.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.93
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.67
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.14
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.02
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Trenching (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.81	0.01	—	0.01	0.01	—	0.01	433
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	23.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.93
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.67
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.14
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.02
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	1/1/2026	1/29/2026	5.00	20.0	—
Site Preparation	Site Preparation	1/30/2026	2/13/2026	5.00	10.0	—
Grading	Grading	2/14/2026	3/14/2026	5.00	20.0	—
Building Construction	Building Construction	3/15/2026	1/31/2027	5.00	230	—
Paving	Paving	3/1/2027	3/26/2027	5.00	20.0	—
Architectural Coating	Architectural Coating	2/1/2027	2/28/2027	5.00	20.0	—
Trenching	Trenching	2/14/2026	3/14/2026	5.00	20.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38

Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48
Trenching	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Trenching	Excavators	Diesel	Average	1.00	8.00	36.0	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40

Site Preparation	Tractors/Loaders/Back	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Final	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48
Trenching	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Trenching	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	0.50	LDA,LDT1,LDT2
Demolition	Vendor	—	0.50	HHDT,MHDT
Demolition	Hauling	1.29	0.50	HHDT
Demolition	Onsite truck	—	—	HHDT

Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	0.50	LDA,LDT1,LDT2
Site Preparation	Vendor	—	0.50	HHDT,MHDT
Site Preparation	Hauling	0.00	0.50	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	0.50	LDA,LDT1,LDT2
Grading	Vendor	—	0.50	HHDT,MHDT
Grading	Hauling	93.8	0.50	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	99.4	0.50	LDA,LDT1,LDT2
Building Construction	Vendor	14.8	0.50	HHDT,MHDT
Building Construction	Hauling	0.35	0.50	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	0.50	LDA,LDT1,LDT2
Paving	Vendor	—	0.50	HHDT,MHDT
Paving	Hauling	3.90	0.50	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	19.9	0.50	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	0.50	HHDT,MHDT
Architectural Coating	Hauling	0.00	0.50	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	5.00	0.50	LDA,LDT1,LDT2
Trenching	Vendor	—	0.50	HHDT,MHDT

Trenching	Hauling	0.00	0.50	HHDT
Trenching	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	0.50	LDA,LDT1,LDT2
Demolition	Vendor	—	0.50	HHDT,MHDT
Demolition	Hauling	1.29	0.50	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	0.50	LDA,LDT1,LDT2
Site Preparation	Vendor	—	0.50	HHDT,MHDT
Site Preparation	Hauling	0.00	0.50	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	0.50	LDA,LDT1,LDT2
Grading	Vendor	—	0.50	HHDT,MHDT
Grading	Hauling	93.8	0.50	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	99.4	0.50	LDA,LDT1,LDT2
Building Construction	Vendor	14.8	0.50	HHDT,MHDT
Building Construction	Hauling	0.35	0.50	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	0.50	LDA,LDT1,LDT2
Paving	Vendor	—	0.50	HHDT,MHDT

Paving	Hauling	3.90	0.50	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	19.9	0.50	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	0.50	HHDT,MHDT
Architectural Coating	Hauling	0.00	0.50	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	5.00	0.50	LDA,LDT1,LDT2
Trenching	Vendor	—	0.50	HHDT,MHDT
Trenching	Hauling	0.00	0.50	HHDT
Trenching	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	659,684	219,895	0.00	0.00	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	—	—
Site Preparation	—	—	15.0	0.00	—

Grading	15,000	—	20.0	0.00	—
Paving	0.00	0.00	0.00	0.00	0.00

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Condo/Townhouse	—	0%
Parking Lot	0.00	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	2.34	0.00	0.00
2027	0.00	2.34	0.00	0.00

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	12.6	annual days of extreme heat
Extreme Precipitation	5.85	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A

Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	22.2
AQ-PM	12.5
AQ-DPM	56.8
Drinking Water	22.7
Lead Risk Housing	38.4
Pesticides	0.00
Toxic Releases	31.8
Traffic	76.7
Effect Indicators	—
CleanUp Sites	62.4
Groundwater	89.2

Haz Waste Facilities/Generators	91.4
Impaired Water Bodies	23.9
Solid Waste	0.00
Sensitive Population	—
Asthma	4.36
Cardio-vascular	4.80
Low Birth Weights	0.50
Socioeconomic Factor Indicators	—
Education	4.21
Housing	10.5
Linguistic	4.59
Poverty	11.9
Unemployment	26.9

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	96.81765687
Employed	97.20261773
Median HI	96.0733992
Education	—
Bachelor's or higher	86.86000257
High school enrollment	100
Preschool enrollment	83.44668292
Transportation	—
Auto Access	82.44578468
Active commuting	1.039394328

Social	—
2-parent households	32.69600924
Voting	93.91761838
Neighborhood	—
Alcohol availability	85.19183883
Park access	48.62055691
Retail density	71.93635314
Supermarket access	39.26600796
Tree canopy	90.2219941
Housing	—
Homeownership	39.09919158
Housing habitability	94.64904401
Low-inc homeowner severe housing cost burden	97.72873091
Low-inc renter severe housing cost burden	96.49685615
Uncrowded housing	82.07365584
Health Outcomes	—
Insured adults	88.86179905
Arthritis	0.0
Asthma ER Admissions	94.9
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	89.3
Cognitively Disabled	56.3
Physically Disabled	87.9

Heart Attack ER Admissions	94.9
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	91.6
Elderly	42.6
English Speaking	69.6
Foreign-born	27.9
Outdoor Workers	47.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	65.7
Traffic Density	76.9
Traffic Access	23.0
Other Indices	—
Hardship	6.4
Other Decision Support	—
2016 Voting	87.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	1.00
Healthy Places Index Score for Project Location (b)	96.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Los Gatos default clean energy provider is Silicon Valley Clean Energy.
Construction: Construction Phases	Defaults based on inputted land use. Added trenching.
Land Use	Total lot acreage, number of units and parking spaces, building square footage, and landscape area provided from "241025 Submittal Plan Set (compressed)_14789 Oka Road (4).pdf.
Construction: Off-Road Equipment	Defaults based on land use. Reviewed and confirmed by applicant.
Construction: Trips and VMT	Demolition = 129 tons of pavement demo'ed and hauled (1.29 trips/day), Building Construction = 40 concrete truck round trips (0.35 trips/day), Paving = 322-cy of asphalt (3.9 trips/day). HRA = 0.5 mile trip length for localized emissions.
Construction: On-Road Fugitive Dust	Air District recommended BMPs 15 mph - required by Los Altos GP.
Operations: Hearths	No hearths

Operations: Water and Waste Water	Wastewater treatment 100% aerobic - no septic tanks or lagoons.
Operations: Energy Use	According to project applicant, project will use no natural gas and be all-electric. Converted natural gas for land use to electricity.

OKA ROAD DEVELOPMENT AIR QUALITY & GREENHOUSE GAS ASSESSMENT

Los Gatos, California

January 14, 2025

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I&R Project#: 24-134

Introduction

The purpose of this report is to address the potential air quality, health risk, and greenhouse gas (GHG) impacts associated with the construction and operation of the proposed residential project located at 14789 Oka Road in Los Gatos, California. Air quality impacts and GHG emissions would be associated with the construction of the new buildings and infrastructure and operation of the project. Air pollutant emissions associated with construction and operation of the project were estimated using appropriate computer models. In addition, the potential project health risks and the impact of existing toxic air contaminant (TAC) sources affecting the nearby and proposed sensitive receptors were evaluated. The analysis was conducted following guidance provided by the Bay Area Air Quality Management District (BAAQMD).[1]

Project Description

The 6.71- acre project site is currently developed with a tree orchard. The proposed project would clear the site and develop it with up to 138 townhome-style condominiums in 18 three-story buildings totaling 325,770 square feet (sf). Each townhome would be equipped with a two-car garage. In addition, there will be 20 on-site guest parking spaces. Construction is anticipated to begin in January 2026 and be completed by March 2027.

Setting

The project is located in Santa Clara County, which is in the San Francisco Bay Area Air Basin. Ambient air quality standards have been established at both the State and federal level. The Bay Area meets all ambient air quality standards with the exception of ground-level ozone, respirable particulate matter (PM_{10}), and fine particulate matter ($PM_{2.5}$).

Air Pollutants of Concern

High ozone concentrations in the air basin are caused by the cumulative emissions of reactive organic gases (ROG) and nitrogen oxides (NO_X). These precursor pollutants react under certain meteorological conditions to form ozone concentrations. Controlling the emissions of these precursor pollutants is the focus of the Bay Area's attempts to reduce ambient ozone concentrations. The highest ozone concentrations in the Bay Area occur in the eastern and southern inland valleys that are downwind of air pollutant sources. High ozone concentrations aggravate respiratory and cardiovascular diseases, reduced lung function, and increase coughing and chest discomfort.

Particulate matter is another problematic air pollutant in the air basin. Particulate matter is assessed and measured in terms of respirable particulate matter or particles that have a diameter of 10 micrometers or less (PM_{10}) and fine particulate matter where particles have a diameter of 2.5 micrometers or less ($PM_{2.5}$). Elevated concentrations of PM_{10} and $PM_{2.5}$ are the result of both region-wide (or cumulative) emissions and localized emissions. High particulate matter concentrations aggravate respiratory and cardiovascular diseases, reduce lung function, increase mortality (e.g., lung cancer), and result in reduced lung function growth in children.

[1] Bay Area Air Quality Management District, *2022 CEQA Guidelines*, April 2023.

Toxic Air Contaminants

TACs are a broad class of compounds known to cause morbidity or mortality, often because they cause cancer. TACs are found in ambient air, especially in urban areas, and are caused by industry, agriculture, fuel combustion, and commercial operations (e.g., dry cleaners). TACs are typically found in low concentrations, even near their source (e.g., diesel particulate matter [DPM] near a freeway). Because chronic exposure of TACs can result in adverse health effects, they are regulated at the regional, State, and federal level.

Diesel exhaust is the predominant TAC in urban air and is estimated to represent about three-quarters of the cancer risk from TACs (based on the Bay Area average). According to the California Air Resources Board (CARB), diesel exhaust is a complex mixture of gases, vapors, and fine particles. This complexity makes the evaluation of health effects from diesel exhaust exposure a complex scientific issue. Some of the chemicals in diesel exhaust, such as benzene and formaldehyde, have been previously identified as TACs by the CARB, and are listed as carcinogens either under the State's Proposition 65 or under the Federal Hazardous Air Pollutants programs. Health risks from TACs are estimated using the Office of Environmental Health Hazard Assessment (OEHHA) risk assessment guidelines, which were published in February of 2015 and incorporated in BAAQMD's current CEQA guidance.[2]

$PM_{2.5}$ emissions can include TACs. Due to the adverse health effects caused by $PM_{2.5}$ exposure even at low concentrations, BAAQMD developed assessing methods and health risk thresholds to address exposure to increased concentrations caused by project $PM_{2.5}$ emissions.[3]

Sensitive Receptors

There are groups of people more affected by air pollution than others. CARB has identified the following persons who are most likely to be affected by air pollution: children under 16, the elderly over 65, athletes exercising outside, and people with cardiovascular and chronic respiratory diseases. These groups are classified as sensitive receptors. Locations that may contain a high concentration of these sensitive population groups include residential areas, hospitals, daycare facilities, elder care facilities, and elementary schools. For cancer risk assessments, infants and small children are the most sensitive receptors, since they are more susceptible to cancer causing TACs. Residential locations are assumed to include infants and small children. The closest sensitive receptors would be located in the mobile homes adjacent to the north of the project site. Additional there are single- and multi-family residences east and southeast of the site across Oka Lane and children at the Yavneh Day School located adjacent to the south of the project site. There are also multi-family residences to the west at further distances. This project would introduce new sensitive receptors (i.e., residents) to the area.

[2] OEHHA, 2015. *Air Toxics Hot Spots Program Risk Assessment Guidelines, The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*. Office of Environmental Health Hazard Assessment. February.

[3] BAAQMD, 2022 CEQA Air Quality Guidelines, Appendix A, p40.

Regulatory Setting

The Federal and California Clean Air Acts have established ambient air quality standards for different pollutants. National ambient air quality standards (NAAQS) were established by the Federal Clean Air Act of 1970 (amended in 1977 and 1990) for six "criteria" pollutants. These criteria pollutants now include carbon monoxide (CO), ozone (O_3), nitrogen dioxide (NO_2), respirable particulate matter with a diameter less than 10 microns (PM_{10}), sulfur dioxide (SO_2), and lead (Pb). In 1997, The Environmental Protection Agency (EPA) added fine particulate matter ($PM_{2.5}$) as a criteria pollutant. The air pollutants for which standards have been established are considered the most prevalent air pollutants known to be hazardous to human health. California ambient air quality standards (CAAQS) include the NAAQS pollutants and also hydrogen sulfide, sulfates, vinyl chloride, and visibility reducing particles. These additional CAAQS pollutants tend to have unique sources and are not typically included in environmental air quality assessments. In addition, lead concentrations have decreased dramatically since it was removed from motor vehicle fuels. The Bay Area has attained the CO standard and monitoring data from the last 30 years show relatively low concentrations throughout the Bay Area. Therefore, CO is not an air quality issue for land use type projects such as this one.

Federal Regulations

The United States Environmental Protection Agency (EPA) sets nationwide emission standards for mobile sources, which include on-road (highway) motor vehicles such trucks, buses, and automobiles, and non-road (off-road) vehicles and equipment used in construction, agricultural, industrial, and mining activities (such as bulldozers and loaders). The EPA also sets nationwide fuel standards. California also has the ability to set motor vehicle emission standards and standards for fuel used in California, as long as they are the same or more stringent than the federal standards.

In the past decade the EPA has established a number of emission standards for on- and non-road heavy-duty diesel engines used in trucks and other equipment. This was done in part because diesel engines are a significant source of NO_X and particulate matter (PM_{10} and $PM_{2.5}$) and because the EPA has identified DPM as a probable carcinogen. Implementation of the heavy-duty diesel on-road vehicle standards and the non-road diesel engine standards are estimated to reduce particulate matter and NO_X emissions from diesel engines up to 95 percent in 2030 when the heavy-duty vehicle fleet is completely replaced with newer heavy-duty vehicles that comply with these emission standards.[4]

In concert with the diesel engine emission standards, the EPA has also substantially reduced the amount of sulfur allowed in diesel fuels. The sulfur contained in diesel fuel is a significant contributor to the formation of particulate matter in diesel-fueled engine exhaust. The new standards reduced the amount of sulfur allowed by 97 percent for highway diesel fuel (from 500 parts per million by weight [ppmw] to 15 ppmw), and by 99 percent for off-highway diesel fuel (from about 3,000 ppmw to 15 ppmw). The low sulfur highway fuel (15 ppmw sulfur), also called ultra-low sulfur diesel (ULSD), is currently required for use by all vehicles in the U.S.

[4] USEPA, 2000. *Regulatory Announcement, Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel Sulfur Control Requirements*. EPA420-F-00-057. December.

All of the above federal diesel engine and diesel fuel requirements have been adopted by California, in some cases with modifications making the requirements more stringent or the implementation dates sooner.

State Regulations

To address the issue of diesel emissions in the state, CARB developed the Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles.[5] In addition to requiring more stringent emission standards for new on-road and off-road mobile sources and stationary diesel-fueled engines to reduce particulate matter emissions by 90 percent, a significant component of the plan involves application of emission control strategies to existing diesel vehicles and equipment. Many of the measures of the Diesel Risk Reduction Plan have been approved and adopted, including the federal on-road and non-road diesel engine emission standards for new engines, as well as adoption of regulations for low sulfur fuel in California.

CARB has adopted and implemented a number of regulations for stationary and mobile sources to reduce emissions of DPM. Several of these regulatory programs affect medium and heavy-duty diesel trucks that represent the bulk of DPM emissions from California highways. CARB regulations require on-road diesel trucks to be retrofitted with particulate matter controls or replaced to meet 2010 or later engine standards that have much lower DPM and $PM_{2.5}$ emissions. This regulation will substantially reduce these emissions between 2013 and 2023. While new trucks and buses will meet strict federal standards, this measure is intended to accelerate the rate at which the fleet either turns over so there are more cleaner vehicles on the road or is retrofitted to meet similar standards. With this regulation, older, more polluting trucks would be removed from the roads sooner.

CARB has also adopted and implemented regulations to reduce DPM and NO_X emissions from in-use (existing) and new off-road heavy-duty diesel vehicles (e.g., loaders, tractors, bulldozers, backhoes, off-highway trucks, etc.). The regulations apply to diesel-powered off-road vehicles with engines 25 horsepower (hp) or greater. The regulations are intended to reduce particulate matter and NO_X exhaust emissions by requiring owners to turn over their fleet (replace older equipment with newer equipment) or retrofit existing equipment in order to achieve specified fleet-averaged emission rates. Implementation of this regulation, in conjunction with stringent federal off-road equipment engine emission limits for new vehicles, significantly reduces emissions of DPM and NO_X.

Bay Area Air Quality Management District (BAAQMD)

BAAQMD has jurisdiction over an approximately 5,600-square mile area, commonly referred to as the San Francisco Bay Area (Bay Area). The District's boundary encompasses the nine San Francisco Bay Area counties, including Alameda County, Contra Costa County, Marin County, San Francisco County, San Mateo County, Santa Clara County, Napa County, southwestern Solano County, and southern Sonoma County.

[5] California Air Resources Board, 2000. Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles. October.

BAAQMD is the lead agency in developing plans to address attainment and maintenance of the National Ambient Air Quality Standards and California Ambient Air Quality Standards. The District also has permit authority over most types of stationary equipment utilized for the proposed project. The BAAQMD is responsible for permitting and inspection of stationary sources; enforcement of regulations, including setting fees, levying fines, and enforcement actions; and ensuring that public nuisances are minimized.

BAAQMD's Community Air Risk Evaluation (CARE) program was initiated in 2004 to evaluate and reduce health risks associated with exposures to outdoor TACs in the Bay Area.[6] The program examines TAC emissions from point sources, area sources, and on-road and off-road mobile sources with an emphasis on diesel exhaust, which is a major contributor to airborne health risk in California. The CARE program is an on-going program that encourages community involvement and input. The technical analysis portion of the CARE program has been implemented in three phases that includes an assessment of the sources of TAC emissions, modeling and measurement programs to estimate concentrations of TAC, and an assessment of exposures and health risks. Throughout the program, information derived from the technical analyses has been used to develop emission reduction activities in areas with high TAC exposures and high density of sensitive populations. Risk reduction activities associated with the CARE program are focused on the most at-risk communities in the Bay Area. Seven areas have been identified by BAAQMD as impacted communities. They include Eastern San Francisco, Richmond/San Pablo, Western Alameda, San José, Vallejo, Concord, and Pittsburgh/Antioch. The project site is not located within any of the BAAQMD CARE areas.

Overburdened communities are areas located (i) within a census tract identified by the California Communities Environmental Health Screening Tool (CalEnviroScreen), Version 4.0 implemented by OEHHA, as having an overall score at or above the 70th percentile, or (ii) within 1,000 feet of any such census tract.[7] The BAAQMD has identified several overburdened areas within its boundaries. However, the project site is not within an overburdened area as the Project site is scored at the 1st percentile on CalEnviroScreen.[8]

Clean Air Plan

The BAAQMD is responsible for developing a Clean Air Plan which guides the region's air quality planning efforts to attain both the National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS). The BAAQMD's *2017 Clean Air Plan* is the current Clean Air Plan which contains district-wide control measures to reduce ozone precursor emissions (i.e., ROG and NO_X), particulate matter (PM_{10} and $PM_{2.5}$) and greenhouse gas (GHG) emissions.

[6] See BAAQMD: https://www.baaqmd.gov/community-health/community-health-protection-program/community-air-risk-evaluation-care-program.
[7] See BAAQMD: https://www.baaqmd.gov/~/media/dotgov/files/rules/reg-2-permits/2021-amendments/documents/20210722_01_appendixd_mapsofoverburdenedcommunities-pdf.pdf?la=en.
[8] OEHAA, CalEnviroScreen 4.0 Maps https://oehha.ca.gov/calenviroscreen/report/calenviroscreen-40

BAAQMD CEQA Air Quality Guidelines

In June 2010, BAAQMD adopted thresholds of significance to assist in the review of projects under CEQA. In 2023, the BAAQMD revised the *California Environmental Quality Act* (*CEQA) Air Quality Guidelines* that include significance thresholds to assist in the evaluation of air quality impacts of projects and plans proposed within the Bay Area. The current BAAQMD guidelines provide recommended procedures for evaluating potential air impacts during the environmental review process consistent with CEQA requirements including thresholds of significance, mitigation measures, and background air quality information. They include assessment methodologies for criteria air pollutants, air toxics, odors, and GHG emissions as shown in Table 1.[9] Air quality impacts and health risks are considered potentially significant if they exceed these thresholds.

The BAAQMD recommends all projects include a "basic" set of best management practices (BMPs) to manage fugitive dust and consider impacts from dust (i.e., fugitive PM_{10} and $PM_{2.5}$) to be less than significant if BMPs are implemented (listed below). BAAQMD strongly encourages enhanced BMPs for construction sites near schools, residential areas, other sensitive land uses, or if air quality impacts were found to be significant.

[9] Bay Area Air Quality Management District, *2022 CEQA Guidelines*, April 2023.

Table 1. BAAQMD CEQA Significance Thresholds

Criteria Air Pollutant	Construction Thresholds		Operational Thresholds	
	Average Daily Emissions (lbs./day)		Average Daily Emissions (lbs./day)	Annual Average Emissions (tons/year)
ROG	54		54	10
NO_X	54		54	10
PM_{10}	82 (Exhaust)		82	15
$PM_{2.5}$	54 (Exhaust)		54	10
CO	Not Applicable		9.0 ppm (8-hour average) or 20.0 ppm (1-hour average)	
Fugitive Dust	Construction Dust Ordinance or other Best Management Practices (BMPs)*		Not Applicable	
Health Risks and Hazards	**Single Sources/ Individual Project**		**Combined Sources (Cumulative from all sources within 1000-foot zone of influence)**	
Excess Cancer Risk	>10 in a million	OR Compliance with Qualified Community Risk Reduction Plan	>100 in a million	OR Compliance with Qualified Community Risk Reduction Plan
Hazard Index	>1.0		>10.0	
Incremental annual $PM_{2.5}$	>0.3 µg/m^3		>0.8 µg/m^3	
Greenhouse Gas Emissions				
Land Use Projects – (Must Include A or B)	A. Projects must include, at a minimum, the following project design elements: 1. Buildings a. The project will not include natural gas appliances or natural gas plumbing (in both residential and nonresidential development). b. The project will not result in any wasteful, inefficient, or unnecessary energy usage as determined by the analysis required under CEQA Section 21100(b)(3) and Section 15126.2(b) of the State CEQA Guidelines. 2. Transportation a. Achieve a reduction in project-generated vehicle miles traveled (VMT) below the regional average consistent with the current version of the California Climate Change Scoping Plan (currently 15 percent) or meet a locally adopted Senate Bill 743 VMT target, reflecting the recommendations provided in the Governor's Office of Planning and Research's Technical Advisory on Evaluating Transportation Impacts in CEQA: i. Residential projects: 15 percent below the existing VMT per capita ii. Office projects: 15 percent below the existing VMT per employee iii. Retail projects: no net increase in existing VMT b. Achieve compliance with off-street electric vehicle requirements in the most recently adopted version of CALGreen Tier 2. B. Be consistent with a local GHG reduction strategy that meets the criteria under State CEQA Guidelines Section 15183.5(b).			

Note: ROG = reactive organic gases, NO_X = nitrogen oxides, PM_{10} = course particulate matter or particulates with an aerodynamic diameter of 10 micrometers (µm) or less, $PM_{2.5}$ = fine particulate matter or particulates with an aerodynamic diameter of 2.5µm or less. GHG = greenhouse gases.

* BAAQMD strongly recommends implementing all feasible fugitive dust management practices especially when construction projects are located near sensitive communities, including schools, residential areas, or other sensitive land uses.

Source: Bay Area Air Quality Management District, 2022

Los Gatos 2040 General Plan

The Los Gatos 2040 General Plan was adopted by the Los Gatos Town Council on June 30, 2022. The following air quality policies are applicable to the project:

Policy ENV-8.1 **Air Quality Standards.** Federal, State, and regional air quality goals, policies, standards, and requirements shall be addressed during environmental review for local land use and development decisions. Applicable standards or requirements, if not already in the proposed plans, shall be incorporated as conditions of approval.

Policy ENV-8.3 **Decrease Vehicle Miles Traveled (VMT).** Require decreases to vehicle miles traveled (VMT) whenever the environmental review document concludes that the traffic generated by a development project would result in adverse impacts from air and noise pollution. Decreases in VMT could be achieved through transportation demand management (TDM) programs.

Policy ENV-8.4 **Electric Vehicle Infrastructure.** Require installation of electric vehicle charging stations as a ratio of total required parking for new and redeveloped commercial, multi-family, residential subdivision, and condominium projects.

Policy ENV-8.7 **Reduce Effects of High Air Pollutant Concentrations.** Require developments to incorporate site planning techniques that reduce exposure of people to the impacts of high air pollutants from adjacent roadways.

Policy ENV-8.9 **Air Pollution Impacts During Construction.** Require project proponents to prepare and implement a construction management plan that incorporates Best Available Control Measures and all best management practices in accordance with the Air District standards to reduce criteria pollutants.

Town of Los Gatos 6th Cycle 2023-2031 Housing Element Update

On June 4, 2024, the Los Gatos Town Council adopted the 2023 – 2031 Housing Element.[10] The Housing Element is intended to meet the housing needs of the community while meeting the State's housing goals as set forth in Article 10.6 of the California Government Code. Updating the Housing Element required the development of the Los Gatos 6th Cycle Housing Element Environmental Analysis. The environmental analysis established a Regional Housing Needs Allocation (RHNA) of 1,993 units. The following significance criteria, and significance determinations, were evaluated for the environmental analysis:

A. Impact AIR-1: Conflict with or obstruct implementation of the applicable air quality plan?
    a. No Impact

[10] Los Gatos Housing Element Update, URL: https://www.losgatosca.gov/1735/General-Plan---Housing-Element

B. Impact AIR-2: Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard?
    a. Less-than-Significant Impact with Mitigation Measures Incorporated

C. Impact AIR-3: Expose sensitive receptors to substantial pollutant concentrations?
    a. Less-than-Significant Impact

D. Impact AIR-4: Result in other emissions, such as those leading to odors adversely affecting a substantial number of people?
    a. Less-than-Significant Impact with Mitigation Measures Incorporated

The Housing Element Update Environmental Analysis concluded that all four air quality impacts listed above were adequately addressed by the General Plan EIR and were the same findings listed in the General Plan EIR. In other words, residential developments that include a construction management plan that includes BAAQMD basic best management practices (General Plan Policy ENV-8.9, above) would be consistent with the General Plan EIR and the Housing Element Update.

AIR QUALITY IMPACTS AND MITIGATION MEASURES

Impact AIR-1: Conflict with or obstruct implementation of the applicable air quality plan?

BAAQMD, with assistance from the Association of Bay Area Governments (ABAG) and Metropolitan Transportation Commission (MTC), prepares and implements specific plans to meet the applicable laws, regulations, and programs. The most recent and comprehensive of which is the *Bay Area 2017 Clean Air Plan*.[11] The primary goals of the Clean Air Plan are to attain air quality standards, reduce population exposure and protect public health, and reduce GHG emissions and protect the climate. The BAAQMD has also developed CEQA guidelines to assist lead agencies in evaluating the significance of air quality and GHG impacts. In formulating compliance strategies, BAAQMD relies on planned land uses established by local general plans. Land use planning affects vehicle travel, which, in turn, affects region-wide emissions of air pollutants and GHGs.

The 2017 Clean Air Plan, adopted by BAAQMD in April 2017, includes control measures that are intended to reduce air pollutant emissions in the Bay Area either directly or indirectly. Guidance provided in the BAAQMD CEQA guidelines recommends that Plans show consistency with the control measures listed within the Clean Air Plan. The Town found that the Housing Element would be consistent with the 2017 Clean Air Plan and no mitigation would be required. At the project-level, there are no consistency measures or thresholds provided in BAAQMD's CEQA guidance. The Project is a small residential development that would not introduce any substantial sources of air pollutants or sources permitted by BAAMQD. The proposed project would not conflict with the latest Clean Air planning efforts since 1) project would have emissions below the BAAQMD thresholds (see Impact below) and 2) the project would be considered urban infill. As a result, the project would also be consistent with the 6th Cycle Housing Element Update.

[11] Bay Area Air Quality Management District (BAAQMD), 2017. *Final 2017 Clean Air Plan.*

Impact AIR-2: Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

The Bay Area is considered a non-attainment area for ground-level O_3 and $PM_{2.5}$ under both the NAAQS and the CAAQS. The area is also considered non-attainment for PM_{10} under the CAAQS, but not the NAAQS. The area has attained both State and Federal ambient air quality standards for CO. As part of an effort to attain and maintain ambient air quality standards for O_3, $PM_{2.5}$ and PM_{10}, the BAAQMD has established thresholds of significance for these air pollutants and their precursors. The O_3 precursor pollutant thresholds are for ROG and NOx, while PM_{10}, and $PM_{2.5}$ have specific thresholds. The thresholds apply to both construction period emissions and operational period emissions.

Construction Period Emissions

The California Emissions Estimator Model (CalEEMod) Version 2022 was used to estimate emissions from on-site construction activity, construction vehicle trips, and evaporative emissions. The project land use types and size were input to CalEEMod. The CalEEMod model output along with construction inputs are included in *Attachment 1*.

CalEEMod Inputs

Land Uses

The proposed project land uses were entered into CalEEMod as described in Table 2.

Table 2. Summary of Project Land Use Inputs

Project Land Uses	Size	Units	Building Area (sf)	Acreage
Condo/Townhouse	138	Dwelling Unit	325,770	6.71
Parking Lot	20	Parking Space	-	

Construction Inputs

CalEEMod computes annual emissions for construction that are based on the project type, size, and acreage. The model provides emission estimates for both on-site and off-site construction activities. On-site activities are primarily made up of construction equipment emissions, while off-site activity includes worker, hauling, and vendor traffic. The construction build-out scenario, including equipment quantities, average hours per day, total number of workdays, and schedule, were based on based CalEEMod defaults for a project of this type and size (included in *Attachment 1*). The construction schedule estimates a start date of January 2026, and the project would be built out over a period of approximately 15 months, or 322 construction workdays. The earliest full year of operation was assumed to be 2027.

Construction Traffic Emissions

Construction would produce traffic in the form of worker trips and truck traffic. The traffic-related emissions are based on worker and vendor trip estimates produced by CalEEMod and haul trips that were computed based on provided demolition material to be exported, soil imported and/or exported to the site, and the amount of concrete/asphalt truck trips to and from the site. CalEEMod provides daily estimates of worker and vendor trips for each applicable phase. Daily haul trips for demolition and grading were developed by CalEEMod using the provided demolition and soil export volumes. The amount of concrete/asphalt was provided and converted to daily one-way trips, assuming two trips per delivery.

Summary of Computed Construction Period Emissions

Average daily construction emissions were estimated for the total duration of the project (322 days). Table 3 shows the unmitigated average daily construction emissions of ROG, NO_X, PM_{10} exhaust, and $PM_{2.5}$ exhaust during construction of the project. As indicated in Table 3, predicted unmitigated average project construction emissions would not exceed the BAAQMD significance thresholds.

Table 3. Construction Period Emissions

Year	ROG	NOx	PM_{10} Exhaust	$PM_{2.5}$ Exhaust
Construction Emissions Total (Tons)				
2026-2027	2.52	1.88	0.07	0.06
Average Daily Construction Emissions (pounds/day)				
2026-2027 (322 construction workdays)	15.64	11.66	0.43	0.40
BAAQMD Thresholds (pounds per day)	*54* lbs./day	*54* lbs./day	*82* lbs./day	*54* lbs./day
Exceed Threshold?	No	No	No	No

Construction activities, particularly during site preparation and grading, would temporarily generate fugitive dust in the form of PM_{10} and $PM_{2.5}$. Sources of fugitive dust would include disturbed soils at the construction site and trucks carrying uncovered loads of soils. Unless properly controlled, vehicles leaving the site would deposit mud on local streets, which could be an additional source of airborne dust after it dries. The BAAQMD recommends all projects include a "basic" set of best management practices (BMPs) to manage fugitive dust and consider impacts from dust (i.e. fugitive PM_{10} and $PM_{2.5}$) to be less than significant BMPs are implemented. The project would be required to implement the BMPs recommended by BAAQMD during all phases of construction to reduce dust and other particulate matter emissions, per the Town's General Plan policy ENV-8.9.

General Plan Policy ENV-8.9: **Include BAAQMD basic BMPs to control dust and exhaust during construction.**

During any construction period ground disturbance, the applicant shall ensure that the project contractor implement measures to control dust and exhaust. Implementation of the measures recommended by BAAQMD and listed below would reduce the air quality impacts associated with grading and new construction to a less-than-significant level.

1. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.

2. All haul trucks transporting soil, sand, or other loose material off-site shall be covered.

3. All visible mud/dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.

4. All vehicle speeds on unpaved roads shall be limited to 15 miles per hour (mph).

5. All roadways, driveways, and sidewalks to be paved shall be completed as soon as practicable. Building pads shall be laid as soon as practicable after grading unless seeding or soil binders are used.

6. All excavation, grading, and/or demolition activities shall be suspended when average wind speeds exceed 20 mph.

7. All trucks and equipment, including their tires, shall be washed off prior to leaving the site.

8. Unpaved roads providing access to site located 100 feet of further from a paved road shall be treated with a 6- to 12-inch layer of compacted layer of wood chips, mulch, or gravel.

9. Publicly visible signs shall be posted with the telephone number and name of the person to contact at the lead agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's General Air Pollution Complaints number shall be visible to ensure compliance with applicable regulations.

The Town's General Plan Policy ENV-8.9 is consistent with BAAQMD-recommended basic BMPs for reducing fugitive dust contained in the BAAQMD CEQA Air Quality Guidelines. For this analysis, only the basic set of BMPs are required as the Project emissions and $PM_{2.5}$ impacts were below the BAAQMD thresholds. Enhanced BMPs would be required as mitigation if air quality impacts were found to be significant.

Operational Period Emissions

ROG, PM, and NO_X emissions from the project would be generated primarily from autos driven by future residents. Evaporative emissions from architectural coatings and maintenance products (classified as consumer products) are also typical ROG emission sources from these types of land uses. CalEEMod was used to estimate emissions from operation of the proposed project assuming full build-out.

CalEEMod Inputs

Land Uses

The project land uses were input to CalEEMod as described above for the construction period

modeling.

Model Year

Emissions associated with vehicle travel depend on the year of analysis because emission control technology requirements are phased-in over time. Therefore, the earlier the year analyzed in the model, the higher the emission rates utilized by CalEEMod. The earliest year of full operation would be 2027 if construction begins in 2026. Emissions associated with build-out later than 2027 would be lower.

Traffic Information

CalEEMod allows the user to enter specific vehicle trip generation rates. However, the CalEEMod default trip generation rates were utilized to calculate emissions from project traffic. The default daily trip generation was calculated using the 10th Edition ITE trip generation rates and the size of the project land uses. The project would produce approximately 1,010 daily weekday trips. The default trip lengths and trip types specified by CalEEMod were used.

Energy

CalEEMod defaults for energy use were used, which include the 2019 Title 24 Building Standards. GHG emissions modeling includes those indirect emissions from electricity consumption. The electricity produced emission rate was modified in CalEEMod. An emission factor of 2.34 pounds of CO_2 per megawatt of electricity produced was entered into CalEEMod, which is based on Silicon Valley Clean Energy's 2019 reported emission factor in CalEEMod. These defaults will be conservative for the project, which will need to meet the 2022 or 2025 Title 24 Building Standards. The 2022 and 2025 Building Standards will be more stringent than the 2019 standards.

The applicant has confirmed the building will be all electric. Therefore, natural gas use for the project land uses was set to zero and reassigned to electricity use in CalEEMod.

Wood-Burning Devices

CalEEMod default inputs assume new residential construction would include wood-burning fireplaces and stoves. The project would not include wood-burning devices, as these devices are prohibited by BAAQMD Regulation 6, Rule 3.[12] Therefore, the number of woodstoves and woodburning fireplaces in CalEEMod were set to zero.

Other Inputs

Default model assumptions for emissions associated with solid waste generation and water use were applied to the project. Wastewater treatment was estimated to be 100 percent aerobic conditions to represent Town wastewater treatment plant conditions. The project site would not send wastewater to on-site septic tanks or facultative lagoons.

[12] Bay Area Air Quality Management District, https://www.baaqmd.gov/~/media/dotgov/files/rules/regulation-6-rule-3/documents/20191120_r0603_final-pdf.pdf?la=en

Summary of Computed Operational Emissions

Annual emissions were predicted using CalEEMod and daily emissions were estimated assuming 365 days of operation. Table 4 shows unmitigated net average daily operational emissions of ROG, NOX, total PM_{10}, and total $PM_{2.5}$ during operation of the project. Operational period emissions would not exceed the BAAQMD significance thresholds.

Table 4. Operational Period Emissions

Scenario	ROG	NOx	PM_{10}	$PM_{2.5}$
2027 Annual Project Operational Emissions (*tons/year*)	2.08	0.41	0.96	0.25
BAAQMD Thresholds (tons /year)	*10 tons*	*10 tons*	*15 tons*	*10 tons*
Exceed Threshold?	*No*	*No*	*No*	*No*
2027 Daily Project Operational Emissions (*pounds/day*)[1]	11.42	2.23	5.24	1.35
BAAQMD Thresholds (pounds/day)	*54* lbs.	*54* lbs.	*82* lbs.	*54* lbs.
Exceed Threshold?	*No*	*No*	*No*	*No*
Notes: [1]Assumes 365-day operation.				

Impact AIR-3: Expose sensitive receptors to substantial pollutant concentrations?

Project impacts related to increased health risk can occur by generating emissions of TACs and air pollutants. This project would introduce new sources of TACs during construction (e.g., on-site construction and truck hauling emissions) and operation (e.g., mobile sources). Project construction activity would generate dust and equipment exhaust that would affect nearby sensitive receptors. The project would not include stationary sources (e.g., emergency generators) but would generate some traffic consisting of mostly light-duty gasoline-powered vehicles, which would produce TAC and air pollutant emissions.

Project impacts to existing sensitive receptors were addressed for temporary construction activities and long-term operational conditions. There are also several sources of existing TACs and localized air pollutants in the vicinity of the project. The impact of existing sources of TACs was assessed in terms of the cumulative risk which includes the project contribution, as well as the risk on the new sensitive receptors introduced by the project.

Health Risk Methodology

Health risk impacts were addressed by predicting increased cancer risk, the increase in annual $PM_{2.5}$ concentrations, and by computing the Hazard Index (HI) for non-cancer health risks. The risk impacts from the project are the combination of risks from construction and operation sources. These sources include on-site construction activity, construction truck hauling, and increased traffic from the project. To evaluate the increased cancer risks from the project, a 30-year exposure period was used, per BAAQMD guidance,[13] with the sensitive receptors being exposed to both project construction and operation emissions during this timeframe.

The project increased cancer risk is computed by summing the project construction cancer risk and operation cancer risk contributions. Unlike the increased maximum cancer risk, the annual $PM_{2.5}$

[13] BAAQMD, Appendix E of the 2022 *BAAQMD CEQA Guidelines*, April 2023.

concentration and HI values are not additive but based on the annual maximum values for the entirety of the project. The project maximally exposed individual (MEI) is identified as the sensitive receptor that is most impacted by the project's construction and operation.

The methodology for computing health risks impacts is contained in Appendix E of the BAAQMD CEQA Guidelines. TAC and $PM_{2.5}$ emissions are calculated, a dispersion model used to estimate ambient pollutant concentrations, and cancer risks and HI calculated using DPM concentrations.

Modeled Sensitive Receptors

Receptors for this assessment included locations where sensitive populations closest to the project would be present for extended periods of time (i.e., chronic exposures). This includes the nearby residences and elementary school, as shown in Figure 1. Residential receptors were assumed to include all receptor groups (i.e., third trimester, infants, children, and adults) with almost continuous exposure to project emissions. Health risks were also computed for child receptors at the school. While there are additional sensitive receptors within 1,000 feet of the project site, the receptors chosen are adequate to identify maximum impacts from the project.

Health Risk from Project Construction

The primary health risk impact issues associated with construction projects are cancer risks associated with diesel exhaust (i.e., DPM), which is a known TAC, and exposure to high ambient concentrations of dust (i.e., $PM_{2.5}$) DPM poses both a potential health and nuisance impact to nearby receptors. A health risk assessment of the project construction activities was conducted that evaluated potential health effects to nearby sensitive receptors from construction emissions of DPM and $PM_{2.5}$.[14] This assessment included dispersion modeling to predict the offsite concentrations resulting from project construction, so that lifetime cancer risks and non-cancer health effects could be estimated.

Construction Emissions

The CalEEMod model provided total uncontrolled annual PM_{10} exhaust emissions (assumed to be DPM) for the off-road construction equipment and for exhaust emissions from on-road vehicles. Total DPM emissions were estimated to be 0.07 tons (136 pounds) and fugitive dust emissions ($PM_{2.5}$) to be 0.03 tons (69 pounds) from all construction stages. The on-road emissions are a result of haul truck travel during grading activities, worker travel, and vendor deliveries during construction. A trip length of half-a-mile was used to represent vehicle travel while at or near the construction site. It was assumed that the emissions from on-road vehicles traveling at or near the site would occur at the construction site.

Dispersion Modeling

The U.S. EPA AERMOD dispersion model was used to predict DPM and $PM_{2.5}$ concentrations at sensitive receptors (i.e., residences) in the vicinity of the project construction area. The AERMOD dispersion model is a BAAQMD-recommended model for use in modeling analysis of these types

[14] DPM is identified by California as a toxic air contaminant due to the potential to cause cancer.

of emission activities for CEQA projects.[15] Emission sources for the construction site were grouped into two categories: exhaust emissions of DPM and fugitive $PM_{2.5}$ dust emissions.

Construction Sources

To represent the construction equipment exhaust emissions, an area source was used with an emission release height of 20 feet (6 meters).[16] The release height incorporates both the physical release height from the construction equipment (i.e., the height of the exhaust pipe) and plume rise after it leaves the exhaust pipe. Plume rise is due to both the high temperature of the exhaust and the high velocity of the exhaust gas. It should be noted that when modeling an area source, plume rise is not calculated by the AERMOD dispersion model as it would do for a point source (exhaust stack). Therefore, the release height from an area source used to represent emissions from sources with plume rise, such as construction equipment, was based on the height the exhaust plume is expected to achieve, not just the height of the top of the exhaust pipe.

For modeling fugitive $PM_{2.5}$ emissions, a near-ground level release height of 7 feet (2 meters) was used for the area source. Fugitive dust emissions at construction sites come from a variety of sources, including truck and equipment travel, grading activities, truck loading (with loaders) and unloading (rear or bottom dumping), loaders and excavators moving and transferring soil and other materials, etc. All of these activities result in fugitive dust emissions at various heights at the point(s) of generation. Once generated, the dust plume will tend to rise as it moves downwind across the site and exit the site at a higher elevation than when it was generated. For all these reasons, a 7-foot release height was used as the average release height across the construction site. Emissions from the construction equipment and on-road vehicle travel were distributed throughout the modeled area sources. Figure 1 shows the project construction site and receptors.

AERMOD Inputs and Meteorological Data

The modeling used a five-year meteorological data set (2013-2017) from the San José Airport prepared for use with the AERMOD model by the BAAQMD. Construction emissions were modeled as occurring Monday through Friday between 8:00 a.m. to 6:00 p.m. when the majority of the construction activities would occur. Annual DPM and $PM_{2.5}$ concentrations from construction activities during the 2026-2027 period were calculated at nearby sensitive receptors using the model. Receptor heights of 5 feet (1.5 meters) and 15 feet (4.5 meters) were used to represent the breathing height on the first and second floors of nearby single- and multi-family residences.[17] A receptor height of 3 feet (1 meter) and 13 feet (4 meters) was used to represent the breathing height of children on the first and second floors at the nearby school.

[15] BAAQMD, Appendix E of the 2022 *BAAQMD CEQA Guidelines*, April 2023.
[16] California Air Resource Board, 2007. *Proposed Regulation for In-Use Off-Road Diesel Vehicles, Appendix D: Health Risk Methodology*. April. Web: https://ww3.arb.ca.gov/regact/2007/ordiesl07/ordiesl07.htm
[17] Bay Area Air Quality Management District, 2012, Recommended Methods for Screening and Modeling Local Risks and Hazards, Version 3.0. May. Web: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/risk-modeling-approach-may-2012.pdf?la=en

Summary of Construction Health Risk Impacts

The maximum increased cancer risks were calculated using the modeled TAC concentrations combined with BAAQMD CEQA guidance for age sensitivity factors and exposure parameters. Age-sensitivity factors reflect the greater sensitivity of infants and small children to cancer causing TACs. Third trimester, infant, child, and adult exposures were assumed to occur at all residences during the entire construction period, while child exposures were assumed at the nearby school.

Non-cancer health hazards and maximum $PM_{2.5}$ concentrations were also calculated. The maximum modeled annual $PM_{2.5}$ concentration was calculated based on combined exhaust and fugitive concentrations. The maximum computed HI value was based on the ratio of the maximum DPM concentration modeled and the chronic inhalation DPM reference exposure level of 5 $\mu g/m^3$.

The modeled maximum annual DPM and $PM_{2.5}$ concentrations were identified at nearby sensitive receptors to find the MEI. Results of this assessment indicated that the construction MEI was located at a mobile home (5 feet above the ground) north of the project site. The location of the MEI and nearby sensitive receptors are shown in Figure 1. Table 5 summarizes the maximum cancer risks, $PM_{2.5}$ concentrations, and health hazard indexes for project related construction activities. *Attachment 2* to this report includes the emission calculations used for the construction modeling and the cancer risk calculations.

Additionally, modeling was conducted to predict the cancer risks, non-cancer health hazards, and maximum $PM_{2.5}$ concentrations associated with construction activities at the nearby school. The maximum increased cancer risks were adjusted using child exposure parameters at the schools. As shown in Table 5, the uncontrolled risk values at these locations do not exceed the BAAQMD single-source significance thresholds.

Health Risks from Project Operation

Diesel stationary equipment that could emit substantial TACs (e.g., emergency generators) are not planned for this project. Diesel powered vehicles are the primary concern with local traffic-generated TAC impacts. This project would generate approximately 1,010 daily weekday trips according to CalEEMod defaults, with a majority of the trips being from light-duty gasoline-powered vehicles (e.g., passenger cars). The project is not anticipated to generate large amounts of truck trips that would involve diesel vehicles. In addition, projects with the potential to cause or contribute to increased cancer risk from traffic include those that have high numbers of diesel-powered on road trucks or use off-road diesel equipment on site, such as a distribution center, a quarry, or a manufacturing facility, may potentially expose existing or future planned receptors to substantial cancer risk levels and/or health hazards. This is not a project of concern for mobile sources. Emissions from project traffic are considered negligible and not included in this analysis.

Summary of Project-Related Health Risks at the Off-Site Project MEI

For this project, the sensitive receptors identified in Figure 1 as the construction MEI is also the project MEI. At this location, the MEI would be exposed to emissions from 15 months of construction. As shown in Table 5, the unmitigated maximum cancer risks from construction

activities at the MEI would exceed the single-source significance threshold. However, with the implementation of *Mitigation Measure AQ-1* and the Town's General Plan Policy ENV-8.9 for dust control, the mitigated cancer risk would no longer exceed the significance threshold. The annual $PM_{2.5}$ concentration and HI from construction activities would be below the single-source significance thresholds with and without mitigation.

Table 5. Project Risk Impacts at the Off-Site MEI

Source		Cancer Risk (per million)	Annual $PM_{2.5}$ ($\mu g/m^3$)	Hazard Index
Project Construction	Unmitigated	**13.66 (infant)**	0.15	0.02
	Mitigated*	2.15 (infant)	0.09	<0.01
	BAAQMD Single-Source Threshold	***>10.0***	***>0.3***	***>1.0***
Exceed Threshold?	Unmitigated	***Yes***	*No*	*No*
	Mitigated*	*No*	*No*	*No*
Maximum School Impact – Yavneh Day School				
Project Construction	Unmitigated	2.24 (infant)	0.05	0.01
	BAAQMD Single-Source Threshold	***>10.0***	***>0.3***	***>1.0***
Exceed Threshold?	Unmitigated	*No*	*No*	*No*

* Construction equipment with Tier 4 final engines and basic BMPs as Mitigation Measures.

Figure 1. Locations of Project Construction Site, Off-Site Sensitive Receptors, and Maximum TAC Impact (MEI)



*Figure not OCR compatible.

Cumulative Health Risks of all TAC Sources at the Off-Site Project MEI

Cumulative health risk assessments look at all substantial sources of TACs located within 1,000 feet of a project site (i.e., influence area) that can affect sensitive receptors. These sources include rail lines, highways, busy surface streets, and stationary sources identified by BAAQMD.

A review of the project area using BAAQMD's geographic information systems (GIS) screening maps identified the existing health risks from nearby roadway and stationary sources at the MEI. Two highways, State Route 85 (SR-85) and SR-17, and three stationary sources within the 1,000-foot influence area could have cumulative health risk impacts at the MEI. Figure 2 shows the locations of the sources affecting the MEI within the influence area. Health risk impacts from these sources upon the MEI are reported in Table 6. Details of the cumulative screening and health risk calculations are included in *Attachment 3*.

Figure 2. Project Site and Nearby TAC and $PM_{2.5}$ Sources

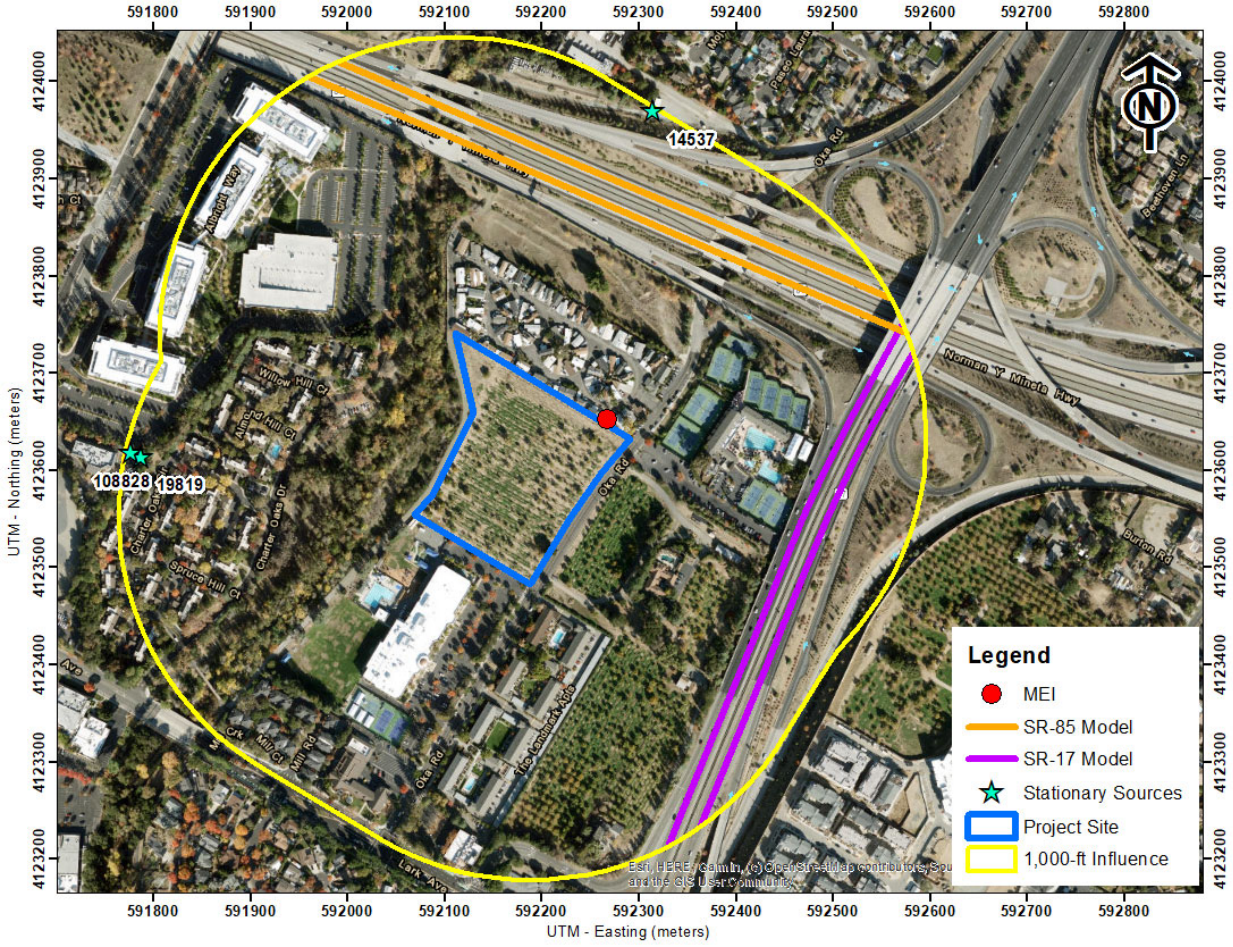


*Figure not OCR compatible.

Highways – State Route 85 and State Route 17

The project MEI is located near SR-85 and SR-17. A refined analysis of the impacts of TACs and $PM_{2.5}$ to the MEI receptor is necessary to evaluate potential cancer risks and $PM_{2.5}$ concentrations

from SR-85 and SR-17. A review of the traffic information reported by Caltrans indicates that SR-85 traffic includes 103,000 vehicles per day (based on an annual average)[18] that are about 0.3 percent trucks, of which 0.0 percent are considered diesel heavy duty trucks and 0.3 percent are medium duty trucks.[19] Note that trucks over 9,000 pounds gross vehicle weight are restricted on this section of SR-85. Caltrans also indicates that SR-17 traffic includes an annual average of 95,000 vehicles per day that are about 5.6 percent trucks, of which 1.1 percent are considered diesel heavy duty trucks and 4.5 percent are medium duty trucks.

Emission Rates

This analysis involved the development of DPM, organic TACs, and $PM_{2.5}$ emissions for traffic on SR-85 and SR-17 using the Caltrans version of the EMFAC2021 emissions model, known as CT-EMFAC2021. CT-EMFAC2021 provides emission factors for mobile source criteria pollutants and TACs, including DPM. Emission processes modeled include running exhaust for DPM, $PM_{2.5}$ and total organic compounds (e.g., TOG), running evaporative losses for TOG, tire and brake wear, and fugitive road dust for $PM_{2.5}$. All $PM_{2.5}$ emissions from all vehicles were used, rather than just the $PM_{2.5}$ fraction from diesel powered vehicles, because all vehicle types (i.e., gasoline and diesel powered) produce $PM_{2.5}$. Additionally, $PM_{2.5}$ emissions from vehicle tire and brake wear and from re-entrained roadway dust were included. DPM emissions are projected to decrease in the future and are reflected in the CT-EMFAC2021 emissions data. Inputs to the model include region (i.e., Santa Clara County), type of road (i.e., freeway), Caltrans estimated local truck mix on SR-85 and SR-17 (0.3 and 5.6 percent, respectively), traffic mix assigned by CT-EMFAC2021 for the county, year of analysis (2026), and season (annual).

In order to estimate TAC and $PM_{2.5}$ emissions over the 30-year exposure period used for calculating the increased cancer risks for sensitive receptors at the MEI, the CT-EMFAC2021 model was used to develop vehicle emission factors for the year 2026. Emissions associated with vehicle travel depend on the year of analysis because emission control technology requirements are phased-in over time. Therefore, the earlier the year analyzed in the model, the higher the emission rates utilized by CT-EMFAC2021. Year 2026 emissions were conservatively assumed as being representative of future conditions over the time period that cancer risks are evaluated.

The traffic information reported by Caltrans for SR-85 and SR-17 was increased 1 percent per year; therefore, SR-85 traffic included 107,120 annual average vehicles per day with about 0.3 percent trucks (as explained above) and SR-17 traffic included 98,800 annual average vehicles per day with about 5.6 percent trucks. Hourly traffic distributions specific to these segments of SR-85 and SR-17 were obtained from Caltrans Performance Measurement System (PeMS). PeMS data is collected in real-time from nearly 40,000 individual detectors spanning the freeway system across all major metropolitan areas of California.[20] The fraction of traffic volume each hour was calculated and applied to the 2026 average daily traffic volumes calculation to estimate hourly traffic emission rates for SR-85 and SR-17.

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[18] Caltrans. 2025. *2022 Traffic Volumes California State Highways.* Web: https://dot.ca.gov/programs/traffic-operations/census

[19] Caltrans. 2025. *2022 Annual Average Daily Truck Traffic on the California State Highway System.* Web: https://dot.ca.gov/programs/traffic-operations/census.

[20] https://dot.ca.gov/programs/traffic-operations/mpr/pems-source

Based on traffic data from the Caltrans PeMS, traffic speeds during the daytime and nighttime periods were identified. For traffic on SR-85, the following was assumed for all vehicles:

Northbound

- 65 mph – From 12:00 a.m. until 7:00 a.m. and 10:00 a.m. until 12:00 a.m.
- 50 mph – From 7:00 a.m. until 10:00 a.m.

Southbound

- 65 mph – From 12:00 a.m. until 3:00 p.m. and 7:00 p.m. until 12:00 a.m.
- 40 mph – From 3:00 p.m. until 7:00 p.m.

For traffic on SR-17, the following was assumed for all vehicles:

Northbound

- 65 mph – From 12:00 a.m. until 8:00 a.m. and 5:00 p.m. until 12:00 a.m.
- 60 mph – From 8:00 a.m. until 5:00 p.m.

Southbound

- 65 mph – From 12:00 a.m. until 8:00 a.m. and 6:00 p.m. until 12:00 a.m.
- 60 mph – From 8:00 a.m. until 6:00 p.m.

Dispersion Modeling

Dispersion modeling of TAC and $PM_{2.5}$ emissions was conducted using the EPA AERMOD air quality dispersion model, which is recommended by the BAAQMD for this type of analysis.[21] TAC and $PM_{2.5}$ emissions from traffic on SR-85 and SR-17 within 1,000 feet of the project site were evaluated. Vehicle traffic on the highways were modeled using a series of area sources along a line (line area sources); with line segments used for opposing travel directions on the highways. The same meteorological data and off-site sensitive receptor MEI location from the previous project impact dispersion modeling were used in the highway modeling. Other inputs to the model included road geometry, hourly traffic emissions, and receptor locations and heights. Annual TAC and $PM_{2.5}$ concentrations from traffic on the highways were calculated using the model. Concentrations were calculated at the project MEI with a receptor height of 5 feet (1.5 meters) to represent the breathing height at the MEI receptor.

Computed Cancer and Non-Cancer Health Impacts

Maximum increased lifetime cancer risks and annual $PM_{2.5}$ concentrations for the receptor were computed using modeled TAC and $PM_{2.5}$ concentrations and BAAQMD methods and exposure parameters. The traffic-related cancer risk, $PM_{2.5}$ concentration, and HI impacts from the nearby highways on the project MEI are shown in Table 6. Figure 2 shows the highway links used for the modeling and receptor locations where concentrations were calculated. Details of the emission

[21] BAAQMD, Appendix E of the 2022 *BAAQMD CEQA Guidelines*, April 2023.

calculations, dispersion modeling, and cancer risk calculations for the MEI receptor from SR-85 and SR-17 traffic are provided in *Attachment 3.*

BAAQMD Permitted Stationary Sources

Permitted stationary sources of air pollution near the project site were identified using BAAQMD's *Permitted Stationary Sources 2022* GIS website,[22] which identifies the location of nearby stationary sources and their estimated risk and hazard impacts, including emissions and adjustments to account for OEHHA guidance. Three sources were identified using this tool, one gas dispensing facility and two emergency diesel generators. The BAAQMD GIS website provided screening risks and hazards for the diesel generators. A stationary source information request was submitted to BAAQMD in order to estimate health risk impacts from the gasoline dispensing facility.

The screening risk and hazard levels provided by BAAQMD for the stationary sources were adjusted for distance using BAAQMD's *Distance Adjustment Multiplier Tool for Diesel Internal Combustion Engines* and CARB's *Gasoline Station Risk Screening Tool.* BAAQMD provided the gasoline throughputs for the gas dispensing facility near the project site.[23] The provided throughput along with the distance between the MEI and the gas dispensing facility, and the region for each gas station was input into the CARB tool to calculate the cancer risk and hazard index. Health risk impacts from the stationary sources upon the MEI are reported in Table 6.

Summary of Cumulative Risks at the Project MEI

Table 6 reports both the project and cumulative health risk impacts. The cumulative annual cancer risk, maximum $PM_{2.5}$ concentration, and HI values would not exceed the BAAQMD's cumulative source health risk thresholds. However, without mitigation, the project would have a *significant* impact with respect to health risk caused by project construction activities, since the maximum cancer risk exceeds the single-source threshold. With the implementation of *Mitigation Measure AQ-1* and the Town's General Plan Policy ENV-8.9 for dust control, the project's cancer risk would be lowered to a level below the single-source threshold.

[22] BAAQMD, https://baaqmd.maps.arcgis.com/apps/webappviewer/index.html?id=845658c19eae4594b9f4b805fb9d89a3

[23] Email from BAAQMD, September 24, 2024. Subject: "RE_ Public Records Number 2024-09-0012 Stationary Source Request for 24-134 Oka Road Development_Los Gatos SSIF".

Table 6. Cumulative Health Risk Impacts at the Project MEI

Source		Cancer Risk (per million)	Annual $PM_{2.5}$ ($\mu g/m^3$)	Hazard Index
Project Impacts				
Project Construction	Unmitigated	**13.66 (infant)**	0.15	0.02
	Mitigated	2.15 (infant)	0.09	<0.01
BAAQMD Single-Source Threshold		***>10.0***	***>0.3***	***>1.0***
Exceed Threshold?	Unmitigated	***Yes***	*No*	*No*
	Mitigated	*No*	*No*	*No*
Cumulative Impacts				
SR-85 – 107,120 ADT		0.32	0.02	<0.01
SR-17 – 98,800 ADT		2.49	0.06	<0.01
Santa Clara Valley Water District-Vasona (Facility ID #14537, Generator), MEI at +1,000 feet.		0.12	-	<0.01
Santa Clara County Fire District (Facility ID #19819, Generator), MEI at +1,000 feet.		0.06	-	-
Central Fire Protection District (Facility ID #108828-1, Gas Dispensing Facility), MEI at 1,500 feet.		0.02	-	0.01
Cumulative Total	Unmitigated	16.67	<0.23	<0.06
	Mitigated	5.16	<0.17	<0.05
BAAQMD Cumulative Source Threshold		***>100***	***>0.8***	***>10.0***
Exceed Threshold?	Unmitigated	*No*	*No*	*No*
	Mitigated	*No*	*No*	*No*

<u>Mitigation Measure AQ-1:</u> Use construction equipment that has low diesel particulate matter exhaust emissions.

Implement a feasible plan to reduce DPM emissions by 40 percent such that increased cancer risk from construction would be reduced below TAC significance levels as follows:

1. All construction equipment larger than 50 horsepower used at the site for more than two continuous days or 20 hours total shall meet U.S. EPA Tier 4 final emission standards for PM (PM_{10} and $PM_{2.5}$), if feasible, otherwise,

Alternatively, the applicant may develop another construction operations plan demonstrating that the construction equipment used on-site would achieve a reduction in construction diesel particulate matter emissions by 40 percent or greater. Elements of the plan could include a combination of some of the following measures:

- Installation of electric power lines during early construction phases to avoid use of diesel portable equipment,
- Use of electrically-powered equipment,
- Forklifts and aerial lifts used for exterior and interior building construction shall be electric or propane/natural gas powered,
- Change in construction build-out plans to lengthen phases, and
- Implementation of different building techniques that result in less diesel equipment usage.

Such a construction operations plan would be subject to review by an air quality expert and approved by the City prior to construction.

Effectiveness of Mitigation Measure AQ-1

CalEEMod was used to compute emissions associated with this mitigation measure assuming that all construction equipment met U.S. EPA Tier 4 final engine standards and the Town's General Plan Policy ENV-8.9/BAAQMD basic BMPs for dust control were included. With these implemented, the project's construction cancer risk levels (assuming infant exposure) would be reduced by 84 percent to 2.15 per million. As a result, the project's construction risks would be reduced below the BAAQMD single-source threshold.

Non-CEQA: On-site Health Risk Assessment of TAC Sources - New Sensitive Receptors

In addition to evaluating health impacts from project construction, a health risk assessment was completed to assess the impact that the existing TAC sources would have on the new proposed sensitive receptors (residents) that the project would introduce. The same TAC sources identified above were used in this health risk assessment.[24] On-site health risk results are listed in Table 7. *Attachment 3* includes the screening information used for TAC source impacts upon the proposed on-site sensitive receptors.

Highways – SR-85 and SR-17

The highway analysis for the new project residents was conducted in the same manner as described above for the off-site MEI. Modeling receptors were placed in the center of each proposed dwelling unit. Highway impacts were modeled at receptor heights of 6.5 feet (2.0 meters) and 16 feet (4.9 meters) representing sensitive receptors on the first and second floors of the proposed units. The portions of SR-85 and SR-17 included in the modeling are shown in Figure 3 along with the project site and receptor locations where impacts were modeled.

Maximum increased cancer risks were calculated for the residents at the project site using the maximum modeled TAC concentrations. A 30-year exposure period was used in calculating cancer risks assuming the residents would include third trimester pregnancy and infants/children and were assumed to be in the new housing area for 24 hours per day for 350 days per year. The highest impacts from both SR-85 and SR-17 occurred at a receptor on the first floor in the northeast corner unit. Cancer risks associated with the highways are greatest closest to the highways and decrease with distance from the highways. The highway health risk impacts at the project site are shown in Table 7. Details of the highway emission calculations, dispersion modeling, and cancer risk calculations are contained in *Attachment 3.*

[24] We note that to the extent this analysis considers *existing* air quality issues in relation to the impact on *future residents* of the Project, it does so for informational purposes only pursuant to the judicial decisions in *CBIA v. BAAQMD* (2015) 62 Cal.4th 369, 386 and *Ballona Wetlands Land Trust v. City of Los Angeles* (2011) 201 Cal.App.4th 455, 473, which confirm that the impacts of the environment on a project are excluded from CEQA unless the project itself "exacerbates" such impacts.

Stationary Sources

The stationary source screening analysis for the new project sensitive receptors was conducted in the same manner as described above for the cumulative analysis. Table 7 shows the health risk impacts for the stationary sources on the project sensitive receptors.

Summary of Cumulative Health Risks at the Project Site

Health risk impacts from the existing TAC sources upon the project site are reported in Table 7. The risks from the singular TAC sources are compared against the BAAQMD single-source threshold. The risks from all the sources are then combined and compared against the BAAQMD cumulative-source threshold. As shown, none of the sources exceed the single-source or cumulative-source thresholds.

Table 7. Impacts from Combined Sources to Project Site Receptors

Source	Cancer Risk (per million)	Annual $PM_{2.5}$ ($\mu g/m^3$)	Hazard Index
SR-85 – 107,120 ADT	0.25	0.02	<0.01
SR-17 – 98,800 ADT	2.54	0.07	<0.01
Santa Clara Valley Water District-Vasona (Facility ID #14537, Generator), Project Site at 980 feet.	0.12	-	<0.01
Santa Clara County Fire District (Facility ID #19819, Generator), Project Site at 925 feet.	0.06	-	-
Central Fire Protection District (Facility ID #108828-1, Gas Dispensing Facility), Project Site at 925 feet.	0.04	-	0.03
BAAQMD Single-Source Threshold	***>10.0***	***>0.3***	***>1.0***
Exceed Threshold?	*No*	*No*	*No*
Cumulative Total	3.01	0.09	<0.06
BAAQMD Cumulative Source Threshold	***>100***	***>0.8***	***>10.0***
Exceed Threshold?	*No*	*No*	*No*

Figure 3. Locations of Project Site, On-Site Residential Receptors, Roadway Model, Stationary Sources, and Maximum TAC Impacts



*Figure not OCR compatible.

Greenhouse Gas Emissions

Setting

Gases that trap heat in the atmosphere, GHGs, regulate the earth's temperature. This phenomenon, known as the greenhouse effect, is responsible for maintaining a habitable climate. The most common GHGs are carbon dioxide (CO_2) and water vapor but there are also several others, most importantly methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6). These are released into the earth's atmosphere through a variety of natural processes and human activities. Sources of GHGs are generally as follows:

- CO_2, CH_4, and N_2O are byproducts of fossil fuel combustion.
- N_2O is associated with agricultural operations such as fertilization of crops.
- CH_4 is commonly created by off-gassing from agricultural practices (e.g., keeping livestock) and landfill operations.
- Chlorofluorocarbons (CFCs) were widely used as refrigerants, propellants, and cleaning solvents but their production has been stopped by international treaty.
- HFCs are now used as a substitute for CFCs in refrigeration and cooling.
- PFCs and sulfur hexafluoride emissions are commonly created by industries such as aluminum production and semi-conductor manufacturing.

Each GHG has its own potency and effect upon the earth's energy balance. This is expressed in terms of a global warming potential (GWP), with CO_2 being assigned a value of 1 and sulfur hexafluoride being several orders of magnitude stronger. In GHG emission inventories, the weight of each gas is multiplied by its GWP and is measured in units of CO_2 equivalents (CO_2e).

An expanding body of scientific research supports the theory that global climate change is currently affecting changes in weather patterns, average sea level, ocean acidification, chemical reaction rates, and precipitation rates, and that it will increasingly do so in the future. The climate and several naturally occurring resources within California are adversely affected by the global warming trend. Increased precipitation and sea level rise will increase coastal flooding, saltwater intrusion, and degradation of wetlands. Mass migration and/or loss of plant and animal species could also occur. Potential effects of global climate change that could adversely affect human health include more extreme heat waves and heat-related stress; an increase in climate-sensitive diseases; more frequent and intense natural disasters such as flooding, hurricanes and drought; and increased levels of air pollution.

Federal and Statewide GHG Emissions

The U.S. EPA reported that in 2022, total gross nationwide GHG emissions were 5,215.6 million metric tons (MMT) carbon dioxide equivalent (CO_2e).[25] These emissions were lower than peak levels of 7,416 MMT that were emitted in 2007. CARB updates the statewide GHG emission

[25] United States Environmental Protection Agency, 2022. *Draft Inventory of U.S. Greenhouse Gas Emissions and Sinks 1990-2020*. February. Web: https://www.epa.gov/ghgemissions/inventory-us-greenhouse-gas-emissions-and-sinks

inventory on an annual basis where the latest inventory includes 2000 through 2020 emissions.[26] In 2020, GHG emissions from statewide emitting activities were 369.2 MMT CO_2e. The 2020 emissions have decreased by 25 percent since peak levels in 2004 and are 35.3 MMT CO_2e lower than 2019 emissions level and almost 62 MMT CO_2e below the State's 2020 GHG limit of 431 MMT CO_2e. Per capita GHG emissions in California have dropped from a 2001 peak of 13.8 MT CO_2e per person to 9.3 MT CO_2e per person in 2020.

Recent Regulatory Actions for GHG Emissions

Executive Order S-3-05 – California GHG Reduction Targets

Executive Order (EO) S-3-05 was signed by Governor Arnold Schwarzenegger in 2005 to set GHG emission reduction targets for California. The three targets established by this EO are as follows: (1) reduce California's GHG emissions to 2000 levels by 2010, (2) reduce California's GHG emissions to 1990 levels by 2020, and (3) reduce California's GHG emissions by 80 percent below 1990 levels by 2050.

Assembly Bill 32 – California Global Warming Solutions Act (2006)

Assembly Bill (AB) 32, the Global Warming Solutions Act of 2006, codified the State's GHG emissions target by directing CARB to reduce the State's global warming emissions to 1990 levels by 2020. AB 32 was signed and passed into law by Governor Schwarzenegger on September 27, 2006. Since that time, the CARB, CEC, California Public Utilities Commission (CPUC), and Building Standards Commission have all been developing regulations that will help meet the goals of AB 32 and Executive Order S-3-05, which has a target of reducing GHG emissions 85 percent below 1990 levels.

The first Scoping Plan for AB 32 was adopted by CARB in December 2008. Its most recent update was completed in December of 2022[27]. It contains the State's main strategies to achieve carbon neutrality by 2045. This plan extends and expands upon the earlier versions with a target of reducing anthropogenic emissions to 85 percent below 1990 levels by 2045. It also takes the step of adding carbon neutrality as a science-based guide and touchstone for California's climate work. Measures to achieve carbon neutrality include rapidly moving to zero emission vehicles (ZEV), removing natural gas as an option for space conditioning, increasing the number of solar arrays and wind turbines, and scaling up renewable hydrogen for hard-to-electrify end uses.

Senate Bill 375 – California's Regional Transportation and Land Use Planning Efforts (2008)

California enacted legislation (SB 375) to expand the efforts of AB 32 by controlling indirect GHG emissions caused by urban sprawl. SB 375 provides incentives for local governments and applicants to implement new conscientiously planned growth patterns. This includes incentives for creating attractive, walkable, and sustainable communities and revitalizing existing communities.

[26] CARB. 2022. *California Greenhouse Gas Emission for 2000 to 2020*. Web: https://ww2.arb.ca.gov/sites/default/files/classic/cc/inventory/2000-2020_ghg_inventory_trends.pdf
[27] CARB. 2022. Final 2022 Scoping Plan Update and Appendices. Web: https://ww2.arb.ca.gov/our-work/programs/ab-32-climate-change-scoping-plan/2022-scoping-plan-documents

The legislation also allows applicants to bypass certain environmental reviews under CEQA if they build projects consistent with the new sustainable community strategies. Development of more alternative transportation options that would reduce vehicle trips and miles traveled, along with traffic congestion, would be encouraged. SB 375 enhances CARB's ability to reach the AB 32 goals by directing the agency in developing regional GHG emission reduction targets to be achieved from the transportation sector for 2020 and 2035. CARB works with the metropolitan planning organizations (e.g., ABAG and MTC) to align their regional transportation, housing, and land use plans to reduce VMT and demonstrate the region's ability to attain its GHG reduction targets. A similar process is used to reduce transportation emissions of ozone precursor pollutants in the Bay Area.

Senate Bill 350 - Renewable Portfolio Standards

In September 2015, the California Legislature passed SB 350, which increases the states Renewables Portfolio Standard (RPS) for content of electrical generation from the 33 percent target for 2020 to a 50 percent renewables target by 2030.

Executive Order B-30-15 & Senate Bill 32 GHG Reduction Targets – 2030 GHG Reduction Target

In April 2015, Governor Brown signed EO B-30-15, which extended the goals of AB 32, setting a GHG emissions target at 40 percent of 1990 levels by 2030. On September 8, 2016, Governor Brown signed Senate Bill (SB) 32, which legislatively established the GHG reduction target of 40 percent of 1990 levels by 2030. In November 2017, CARB issued *California's 2017 Climate Change Scoping Plan*.[28] While the State is on track to exceed the AB 32 scoping plan 2020 targets, this plan is an update to reflect the enacted SB 32 reduction target.

SB 32 was passed in 2016, which codified a 2030 GHG emissions reduction target of 40 percent below 1990 levels. CARB has drafted a 2022 Scoping Plan Update to reflect the 2030 target set by Executive Order B-30-15 and codified by SB 32. The 2022 draft plan:

- Identifies a path to keep California on track to meet its SB 32 GHG reduction target of at least 40 percent below 1990 emissions by 2030.
- Identifies a technologically feasible, cost-effective path to achieve carbon neutrality by 2045 or earlier.
- Focuses on strategies for reducing California's dependency on petroleum to provide consumers with clean energy options that address climate change, improve air quality, and support economic growth and clean sector jobs.
- Integrates equity and protecting California's most impacted communities as a driving principle.
- Incorporates the contribution of natural and working lands to the state's GHG emissions, as well as its role in achieving carbon neutrality.
- Relies on the most up to date science, including the need to deploy all viable tools, including carbon capture and sequestration as well a direct air capture.

[28] California Air Resource Board, 2017. *California's 2017 Climate Change Scoping Plan: The Strategy for Achieving California's 2030 Greenhouse Gas Targets.* November. Web: https://ww2.arb.ca.gov/sites/default/files/classic//cc/scopingplan/scoping_plan_2017.pdf

- Evaluates multiple options for achieving our GHG and carbon neutrality targets, as well as the public health benefits and economic impacts associated with each.

The Scoping Plan was updated in 2022 and lays out how the state can get to carbon neutrality by 2045 or earlier. It is the first Scoping Plan that adds carbon neutrality as a science-based guide and touchstone beyond statutorily established emission reduction targets.[29]

The mid-term 2030 target is considered critical by CARB on the path to obtaining an even deeper GHG emissions target of 80 percent below 1990 levels by 2050, as directed in Executive Order S-3-05. The 2022 Scoping Plan outlines the suite of policy measures, regulations, planning efforts, and investments in clean technologies and infrastructure, providing a blueprint to continue driving down GHG emissions and to not only obtain the statewide goals, but cost-effectively achieve carbon-neutrality by 2045 or earlier. In the 2022 Scoping Plan, CARB recommends:

- VMT per capita reduced 12% below 2019 levels by 2030 and 22% below 2019 levels by 2045.
- 100% of Light-duty vehicle sales are zero emissions vehicles (ZEV) by 2035.
- 100% of medium duty/heavy duty vehicle sales are ZEV by 2040.
- 100% of passenger and other locomotive sales are ZEV by 2030.
- 100% of line haul locomotive sales are ZEV by 2035.
- All electric appliances in new residential and commercial building beginning 2026 (residential) and 2029 (commercial).
- 80% of residential appliance sales are electric by 2030 and 100% of residential appliance sales are electric by 2035.
- 80% of commercial appliance sales are electric by 2030 and 100% of commercial appliance sales are electric by 2045.

SB 743 Transportation Impacts

Senate Bill 743 required lead agencies to abandon the old "level of service" metric for evaluating a project's transportation impacts, which was based solely on the amount of delay experienced by motor vehicles. In response, the Governor's Office of Planning and Research (OPR) developed a VMT metric that considered other factors such as reducing GHG emissions and developing multimodal transportation[30]. A VMT-per-capita metric was adopted into the CEQA Guidelines Section 15064.3 in November 2017. Given current baseline per-capita VMT levels computed by CARB in the 2030 Scoping Plan of 22.24 miles per day for light-duty vehicles and 24.61 miles per day for all vehicle types, the reductions needed to achieve the 2050 climate goal are 16.8 percent for light-duty vehicles and 14.3 percent for all vehicle types combined. Based on this analysis (as well as other factors), OPR recommended using a 15-percent reduction in per capita VMT as an appropriate threshold of significance for evaluating transportation impacts.

[29] https://ww2.arb.ca.gov/our-work/programs/ab-32-climate-change-scoping-plan/2022-scoping-plan-documents
[30] Governor's Office of Planning and Research. 2018. *Technical Advisory on Evaluating Transportation Impacts in CEQA*. December.

Executive Order B-55-18 – Carbon Neutrality

In 2018, a new statewide goal was established to achieve carbon neutrality as soon as possible, but no later than 2045, and to maintain net negative emissions thereafter. CARB and other relevant state agencies are tasked with establishing sequestration targets and create policies/programs that would meet this goal.

Senate Bill 100 – Current Renewable Portfolio Standards

In September 2018, SB 100 was signed by Governor Brown to revise California's RPS program goals, furthering California's focus on using renewable energy and carbon-free power sources for its energy needs. The bill would require all California utilities to supply a specific percentage of their retail sales from renewable resources by certain target years. By December 31, 2024, 44 percent of the retails sales would need to be from renewable energy sources, by December 31, 2026 the target would be 40 percent, by December 31, 2027 the target would be 52 percent, and by December 31, 2030 the target would be 60 percent. By December 31, 2045, all California utilities would be required to supply retail electricity that is 100 percent carbon-free and sourced from eligible renewable energy resource to all California end-use customers.

California Building Standards Code – Title 24 Part 11 & Part 6

The California Green Building Standards Code (CALGreen Code) is part of the California Building Standards Code under Title 24, Part 11.[31] The CALGreen Code encourages sustainable construction standards that involve planning/design, energy efficiency, water efficiency resource efficiency, and environmental quality. These green building standard codes are mandatory statewide and are applicable to residential and non-residential developments. The most recent CALGreen Code (2022 California Building Standard Code) was effective as of January 1, 2023.

The California Building Energy Efficiency Standards (California Energy Code) is under Title 24, Part 6 and is overseen by the California Energy Commission (CEC). This code includes design requirements to conserve energy in new residential and non-residential developments, while being cost effective for homeowners. This Energy Code is enforced and verified by cities during the planning and building permit process. The current energy efficiency standards (2022 Energy Code) replaced the 2019 Energy Code as of January 1,2023. Under the 2019 standards, single-family homes are predicted to be 53 percent more efficient than homes built under the 2016 standard due more stringent energy-efficiency standards and mandatory installation of solar photovoltaic systems. For nonresidential developments, it is predicted that these buildings will use 30 percent less energy due to lightening upgrades.[32]

Requirements for electric vehicle (EV) charging infrastructure are set forth in Title 24 of the California Code of Regulations. The CALGreen standards consist of a set of mandatory standards required for new development, as well as two more voluntary standards known as Tier 1 and Tier 2. The CalGreen 2022 standards require deployment of additional EV chargers in various building

[31] See: https://www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-Resources-List-Folder/CALGreen#:~:text=CALGreen%20is%20the%20first%2Din,to%201990%20levels%20by%202020.
[32] See: https://www.energy.ca.gov/sites/default/files/2020-03/Title_24_2019_Building_Standards_FAQ_ada.pdf

types, including multifamily residential and nonresidential land uses. They include requirements for both EV capable parking spaces and the installation of Level 2 EV supply equipment for multifamily residential and nonresidential buildings. The 2022 CALGreen standards include requirements for both EV readiness, installation of EV chargers, and include both mandatory requirements and more aggressive voluntary Tier 1 and Tier 2 provisions. Providing EV charging infrastructure that meets current CALGreen requirements will not be sufficient to power the anticipated more extensive level of EV penetration in the future that is needed to meet SB 30 climate goals.

CEC studies have identified the most aggressive electrification scenario as putting the building sector on track to reach the carbon neutrality goal by 2045.[33] Installing new natural gas infrastructure in new buildings will interfere with this goal. To meet the State's goal, communities have been adopting "Reach" codes that prohibit natural gas connections in new and remodeled buildings.

Advanced Clean Cars

The Advanced Clean Cars Program, originally adopted by CARB in 2012, was designed to bring together CARB's traditional passenger vehicle requirements to meet federal air quality standards and also support California's AB 32 goals to develop and implement programs to reduce GHG emissions back down to 1990 levels by 2020, a goal achieved in 2016 as a result of numerous emissions reduction programs.

Advanced Clean Cars II (ACC II) is phase two of the original rule. ACC II establishes a year-by-year process, starting in 2026, so all new cars and light trucks sold in California will be zero-emission vehicles by 2035, including plug-in hybrid electric vehicles. The regulation codifies the light-duty vehicle goals set out in Governor Newsom's Executive Order N-79-20. Currently, 16 percent of new light-duty vehicles sold in California are zero emissions or plug-in hybrids. By 2030, 68 percent of new vehicles sold in California would be zero emissions and 100 percent by 2035.

Los Gatos 2040 General Plan

The Los Gatos 2040 General Plan was adopted by the Los Gatos Town Council on June 30, 2022. The following greenhouse gas policies are applicable to the project:

Policy ENV-9.14 **Exceeding Title 24 for Large Developments.** Require new residential developments with more than 20 dwelling units an acre and new or remodeled commercial, industrial, and office developments greater than 15,000 square feet to exceed the Title 24 requirements by 10 percent.

Policy ENV-9.15 **Sustainability Plan Requirements.** Continue to require that all new and remodeled developments incorporate sustainable building practices and site design methods as listed in the Sustainability Plan.

[33] California Energy Commission. 2021. F*inal Commission Report: California Building Decarbonization Assessment. Publication Number CEC-400-2021-006-CMF*. August.

Los Gatos Sustainability Plan

The Los Gatos Sustainability Plan serves as the town's road map to emission reduction by identifying a GHG reduction target, as well as strategies and specific actions or measures. Since the plan was adopted in 2012, it only sets a year 2020 target for total GHG emissions and, at the time of this analysis, has not been updated beyond year 2020. However, the following measures are applicable to the project.

Measure RE-2 **New Solar Homes Partnership.** Require that residential projects of six units or more participate in the California Energy Commission's New Solar Homes Partnership, which provides rebates to developers of six units or more who offer solar power in 50 percent of new units and is a component of the California Solar Initiative, or a similar program with solar power requirements equal to or greater than those of the California Energy Commission's New Solar Homes Partnership.

Measure EC-1 **Energy-Efficient Appliances and Lighting.** Require new development to use energy-efficient appliances that meet Energy Star standards and energy-efficient lighting technologies that exceed Title 24 standards by 30 percent.

Los Gatos 2040 General Plan Environmental Impact Report (EIR)

The EIR for the Los Gatos 2040 General Plan analyzed the updated General Plan's GHG impacts with respect to the two plan level thresholds found in the 2017 BAAQMD CEQA Air Quality Guidelines:

1. Consistency with a qualified GHG reduction plan; or,
2. Meets the efficiency plan threshold of 6.6 MT of CO_2e per service population (SP) per year.

As mentioned above, the Los Gatos Sustainability Plan includes GHG reduction measures but does not serve as a qualified GHG reduction plan since it has a horizon year of 2020. The second threshold also cannot be used because it is intended as a 2020 threshold, not 2040. Instead, the Plan must be below 3.31 MT CO_2e and 1.02 MT CO_2e per capita by 2030 and 2040, respectively. To measure compliance, equations 4.8-1 and 4.7-2 were utilized in the EIR to calculate the 2030 and 2040 Los Gatos MT CO_2e per service population values. The calculated per capita emissions in 2030 are 5.68 MT CO_2e and 5.29 MT CO_2e in 2040, exceeding both thresholds. Including the EIR's GHG Mitigation Measure GHG-1 reduced the per capita emissions to 4.32 and 2.53 MT CO_2e in 2030 and 2040, still exceeding the thresholds. As a result, the GHG impacts from the 2040 General Plan EIR were found to be significant and unavoidable with mitigation.

The General Plan EIR evaluated VMT and included a number of policies to reduce traffic congestion and improve transit connectivity. However, the EIR concluded that impacts from VMT would be significant and unavoidable with mitigation. This is due to some of the mitigation measure details being regional in nature and would require action from multiple agencies and municipalities outside of Los Gatos. Without assurances from other municipalities, the Town was

unable to say with certainty that the required reductions would occur, leading to the significant and unavoidable impact with mitigation as mentioned above. For this project, Policy MOB-1.1 is applicable which requires the project to implement a TDM program to reduce project VMT. This, along with other policies in the General Plan EIR, is an attempt to reduce the VMT Per Service Population to below the applicable VMT threshold of 32.3. The General Plan EIR also includes a mitigation measure (T-1) for VMT reduction since the 2018 – 2019 baseline and 2040 VMT Per Service Population exceeds the 32.3 threshold.

Town of Los Gatos 6th Cycle 2023-2031 Housing Element Update

Development associated with the House Element Update was found to be consistent with the growth projections evaluated in the General Plan EIR and would generate GHG emissions. As such, development under the Housing Element Update is part of the significant and unavoidable cumulative GHG emissions impacts found in the General Plan EIR. As a result, implementation of Mitigation Measure GHG-1 would be required. The project is subject to the following portions of Mitigation Measure GHG-1 from the General Plan EIR:

General Plan EIR Mitigation Measure GHG-1

Energy

Measure EN9: Increase privately owned EV charging infrastructure:

Amend the Town's Building Code and Local Reach Code to require the following:

- EV capable attached private garages for new single-family and duplex residential development;
- 20 percent EV capable charging spaces and panel capacity for new multi-family residential development;
- 20 percent EV capable charging spaces for new commercial development; and
- At least 1 percent working chargers for all new development and major retrofits.

Transportation

Measure TR6: Require transportation system management for new construction:

Draft and implement a Transportation System Management Plan (TSMP) ordinance for new construction to allow for the Town to shift travel behavior away from single-occupancy vehicles. Ensure telecommuting is an optional trip reduction strategy.

BAAQMD GHG Significance Thresholds

On April 20, 2022, BAAQMD adopted new thresholds of significance for operational GHG emissions from land use projects for projects beginning the CEQA process. The following

framework is how BAAQMD will determine GHG significance moving forward.[34] Note BAAQMD intends that the thresholds apply to projects that begin the CEQA process after adoption of the thresholds, unless otherwise directed by the lead agency. The new thresholds of significance are:

A. Projects must include, at a minimum, the following project design elements:
   a. Buildings
      i. The project will not include natural gas appliances or natural gas plumbing (in both residential and non-residential development).
      ii. The project will not result in any wasteful, inefficient, or unnecessary energy usage as determined by the analysis required under CEQA Section 21100(b)(3) and Section 15126.2(b) of the State CEQA Guidelines.
   b. Transportation
      i. Achieve a reduction in project-generated vehicle miles traveled (VMT) below the regional average consistent with the current version of the California Climate Change Scoping Plan (currently 15 percent) or meet a locally adopted Senate Bill 743 VMT target, reflecting the recommendations provided in the Governor's Office of Planning and Research's Technical Advisory on Evaluating Transportation Impacts in CEQA:
         1. Residential Projects: 15 percent below the existing VMT per capita
         2. Office Projects: 15 percent below the existing VMT per employee
         3. Retail Projects: no net increase in existing VMT
      ii. Achieve compliance with off-street electric vehicle requirements in the most recently adopted version of CALGreen Tier 2.

B. Be consistent with a local GHG reduction strategy that meets the criteria under State CEQA Guidelines Section 15183.5(b).

Any new land use project would have to include either section A or B from the above list, not both, to be considered in compliance with BAAQMD's GHG thresholds of significance.

Impact GHG-1: Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

GHG emissions associated with development of the proposed project would occur over the short-term from construction activities, consisting primarily of emissions from equipment exhaust and worker and vendor trips. There would also be long-term operational emissions associated with vehicular traffic within the project vicinity, energy and water usage, and solid waste disposal. Emissions for the proposed project are discussed below and were analyzed using the methodology recommended in the BAAQMD CEQA Air Quality Guidelines.

[34] Justification Report: BAAQMD CEQA Thresholds for Evaluating the Significance of Climate Impacts from Land Use Project and Plans. Web: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa-thresholds-2022/justification-report-pdf.pdf?la=en

CalEEMod Modeling

CalEEMod was used to predict GHG emissions from operation of the site assuming full build-out of the project. The project land use types and size and other project-specific information were input to the model, as described above within the construction and operational period emissions. CalEEMod output is included in *Attachment 1*.

Construction GHG Emissions

GHG emissions associated with construction were computed at 529 MT of CO_2e for the total construction period. These are the emissions from on-site operation of construction equipment, vendor and hauling truck trips, and worker trips. Neither the Town nor BAAQMD have an adopted threshold of significance for construction-related GHG emissions, though the California Office of Planning and Research (OPR) recommends quantifying emissions and disclosing that GHG emissions would occur during construction, even in cases where BAAQMD does not. BAAQMD also encourages the incorporation of BMPs to reduce GHG emissions during construction where feasible and applicable.

Operational GHG Emissions

The CalEEMod model was used to estimate daily emissions associated with operation of the fully developed site under the proposed project. For informational purposes, annual GHG emissions resulting from operation of the proposed project in Table 8 are predicted to be 932 MT of CO_2e in 2027.

Table 8. Annual Project GHG Emissions (CO_2e) in Metric Tons

Source Category	Proposed Project in 2027
Mobile	893
Area	2
Energy Consumption	2
Water Usage	3
Solid Waste Generation	32
Refrigerants	<1
Total (MT CO_2e/year)	932

The project must be consistent with a local GHG reduction strategy (Threshold B) or meet the minimum project design elements recommended by BAAQMD (Threshold A). Threshold A is being applied to the analysis of this project. To meet the BAAQMD's GHG Threshold A, the project would be required to demonstrate the following:

1. Avoid construction of new natural gas connections for the residential building,
    - Conforms – According to project applicant, the project will be all electric.
2. Avoid wasteful or inefficient use of electricity,
    - Conforms – would meet CALGreen Building Standards Code requirements that are considered to be energy efficient.

3. Include electric vehicle charging infrastructure that meets current Building Code CALGreen Tier 2 compliance, and
    - Conforms – The project's parking would meet the Tier 2 compliance standards as each garage unit will be equipped for EV charging infrastructure and the guest parking will include 2 EV Capable and 8 EV Ready spaces.
4. Reduce VMT per capita by 15 percent over baseline conditions.
    - Conforms– the project's VMT analysis[35] found that the project would have a less-than-significant VMT impact since the project's VMT per service population rate was below the Town's daily VMT per service population rate.

The project is anticipated to comply with all four requirements of Threshold A.

Impact GHG-2: Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

The Town of Los Gatos has a sustainability plan and enforces its building codes, which aim to reduce GHG emissions. Therefore, if individual projects conform to Town building Codes, they will conform with the CAP and would not conflict with local plans, policies, or regulations applicable to GHG emissions. The proposed project would be constructed in conformance with at minimum the 2022 CalGreen and the Title 24 Building Codes, which requires high-efficiency water fixtures, water-efficient irrigation systems, and compliance with current energy efficiency standards. Compliance with these standards ensures compliance with State and federal plans, policies, and regulations applicable to GHG emissions.

[35] Hexagon Transportation Consultants, Inc., *Oka Road Townhomes*, December 3, 2024.

Energy Use Assessment

Setting

Many federal, state, and local statutes and policies address energy conservation. At the federal level, energy standards apply to numerous products (e.g., the EnergyStar™ program) and transportation (e.g., fuel efficiency standards). At the state level, the Energy Efficiency Standards for Residential and Nonresidential Buildings, as specified in Title 24, Part 6, of the California Code of Regulations (CCR), promote efficient energy use in new buildings constructed in California. The standards regulate energy consumed for heating, cooling, ventilation, water heating, and lighting. The California Green Building Standards Code (CALGreen) establishes mandatory green building standards for new construction (new buildings and expansions) in California. The code covers five categories: planning and design, energy efficiency, water efficiency and conservation, material conservation and resource efficiency, and indoor environmental quality. These standards include a mandatory set of minimum guidelines, as well as more rigorous voluntary measures, for new construction projects to achieve specific green building performance levels. Building Energy Efficiency Standards and CALGreen standards are enforced through the local building permit process.

The California Energy Commission (CEC) provides full forecasts for electricity, natural gas, and fuel every two years as part of the *Integrated Energy Policy Report* (IEPR) process. In 2035, it is estimated that Californians will consume up to 358,738 GWh of electricity. Gasoline demand is projected to decline each year through 2030 due to greater numbers of zero-emission vehicles, with 840,000 zero emission vehicles registered for 2021, and increasing fuel economy.

California's electric grid relies increasingly on clean sources of energy such as solar, wind, geothermal, hydroelectricity, and biomass. As this transition advances, the grid is also expanding to serve new sectors including electric vehicles, rail, and space and water heating. California's Renewables Portfolio Standard (RPS) is among the most ambitious energy policies in the nation, requiring utilities to produce 44 percent of their retail electricity from clean, renewable sources by 2024 and 60 percent by 2030. Increasing California's renewable supplies will diminish the state's dependence on fossil fuels for electric power generation.

Discussion

Construction of the project would require energy for the manufacture and transportation of building materials, preparation and grading of the project site, and construction of the project including the infrastructure. This would be a temporary use of energy.

Operation of the project would consume energy. The primary means of energy consumption would include vehicle travel and electricity usage associated with operating the new residential units proposed by the project. In addition, there would be indirect electricity usage associated with the conveyance of water supplied to the residential units and wastewater produced by the units. As described in the air quality report, the CalEEMod model was used to compute air pollutant emissions associated with operation of the project. CalEEMod provides estimated direct electricity usage, while the vehicle trip generation was also provided by CalEEMod. The energy usage

reflects the project operating under a full buildout. It is conservatively assumed that all vehicles operated by project residents are gasoline powered even though the project plans to install EV charging infrastructure within all units to encourage electric vehicle usage. Table 9 shows the estimated energy demand of the project during operation.

Table 9. Project Operational Annual Energy Demand

Energy Usage	Estimated Demand	2026 Demand in MM Btu	Source
Electricity	1,771,833 kWh	6,046	CalEEMod
Vehicle Travel (gasoline, diesel and electric vehicles)	2,717,990 annual miles travelled. Consumption of 96,554 gallons	11,007	CalEEMod VMT and EMFAC2021 average light duty fuel economy of 28.15 mpg in 2026.
Total Usage		17,053	

Sources: Illingworth & Rodkin, Inc. CalEEMod modeling, EMFAC2021

1 gallon of gasoline = 114,000 Btu = 0.114 MM Btu
MM Btu = one million British thermal units, VMT = vehicle miles travelled

Supporting Documentation

Attachment 1 includes the CalEEMod outputs for project construction and operational criteria air pollutants. Also included are any modeling assumptions.

Attachment 2 is the health risk assessment. This includes the summary of the dispersion modeling and the cancer risk calculations for construction. The AERMOD dispersion modeling files for this assessment, which are quite voluminous, are available upon request and would be provided in digital format.

Attachment 3 includes the cumulative health risk screening, modeling results, and health risk calculations from sources affecting the project MEI and new project sensitive receptors.

Attachment 1: CalEEMod Input Assumptions and Outputs

Construction Criteria Air Pollutants							
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	PM2.5 Fugitive	**CO2e**	
Year	Tons					MT	
Construction Equipment							
2026-2027	2.52	1.88	0.07	0.06	0.06	528.59	
	Total Construction Emissions						
Tons	2.52	1.88	0.07	0.06		528.59	
Pounds/Workdays	*Average Daily Emissions*					Workdays	
2026-2027	15.64	11.66	0.43	0.40			**322**
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**			
	Total Construction Emissions						
Pounds	5036.68	3753.17	138.59	127.70		0.00	
Average	15.64	11.66	0.43	0.40		0.00	322.00
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**			

Operational Criteria Air Pollutants				
Unmitigated	ROG	NOX	Total PM10	Total PM2.5
Year	Tons			
Total	2.08	0.41	0.96	0.25
	Net Annual Operational Emissions			
Tons/year	2.08	0.41	0.96	0.25
Threshold - Tons/year	**10.0**	**10.0**	**15.0**	**10.0**
	Average Daily Emissions			
Pounds Per Day	11.42	2.23	5.24	1.35
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**

Category	**CO2e**			
	Project			
Mobile	893.04			
Area	1.72			
Energy	1.88			
Water	3.12			
Waste	31.89			
Refrig.	0.39			
TOTAL	932.03	0.00	0.00	0.00
Net GHG Emissions		932.03		0.00

Number of Days Per Year					
2026	1/1/2026	12/31/26	365	262	
2027	1/1/27	3/26/2027	85	61	
			450	**322**	***Total Workdays***

Phase	**Start Date**	**End Date**	**Days/Week**	**Workdays**
Demolition	1/1/2026	1/29/2026	5	20
Site Preparation	1/30/2026	2/13/2026	5	10
Grading	2/14/2026	3/14/2026	5	20
Building Construction	3/15/2026	1/31/2027	5	230
Paving	3/1/2027	3/26/2027	5	20
Architectural Coating	2/1/2027	2/28/2027	5	20
Trenching	2/14/2026	3/14/2026	5	20

Air Quality/Noise Construction Information Data Request

Project Name: Oka Road Development, Los Gatos DEFAULTS

Complete ALL Portions in Yellow

See Equipment Type TAB for type, horsepower and load factor

Project Size 138 Dwelling Units; 6.71 total project acres disturbed

325,770 s.f. residential

s.f. retail

s.f. office/commercial

s.f. other, specify:

s.f. parking garage spaces

s.f. parking lot 20 spaces

Construction Days (i.e, M-F) to

Construction Hours am to pm

Pile Driving? Y/N?

Project include on-site GENERATOR OR FIRE PUMP during project OPERATION (not construction)? Y/N? ____

IF YES (if BOTH separate values) -->

Kilowatts/Horsepower: _____

Fuel Type: _____

Location in project (Plans Desired if Available):

DO NOT MULTIPLY EQUIPMENT HOURS/DAY BY THE QUANTITY OF EQUIPMENT

Quantity	Description	HP	Load Factor	Hours/day	Total Work Days	Avg. Hours per day	HP Annual Hours	Comments
	Demolition	**Start Date:**	**1/1/2026**	**Total phase:**	**20**			**Overall Import/Export Volumes**
		End Date:	**1/29/2026**					
1	Concrete/Industrial Saws	81	0.73	8	20	8	9461	**Demolition Volume**
3	Excavators	158	0.38	8	20	8	28819	Square footage of buildings to be demolished
2	Rubber-Tired Dozers	247	0.4	8	20	8	31616	(*or* total tons to be hauled)
	Tractors/Loaders/Backhoes	97	0.37			0	0	0 square feet *or*
	Other Equipment?							Hauling volume (tons)
								Any pavement demolished and hauled? 129 tons
	Site Preparation	**Start Date:**	**1/30/2026**	**Total phase:**	**10**			
		End Date:	**2/13/2026**					
	Graders	187	0.41			0	0	
3	Rubber Tired Dozers	247	0.4	8	10	8	23712	
4	Tractors/Loaders/Backhoes	97	0.37	8	10	8	11485	
	Other Equipment?							
	Grading / Excavation	**Start Date:**	**2/14/2026**	**Total phase:**	**20**			
		End Date:	**3/14/2026**					**Soil Hauling Volume**
1	Excavators	158	0.38	8	20	8	9606	Export volume = N/A
1	Graders	187	0.41	8	20	8	12267	Import volume = 9148 cubic yards
1	Rubber Tired Dozers	247	0.4	8	20	8	15808	
	Concrete/Industrial Saws	81	0.73			0	0	
3	Tractors/Loaders/Backhoes	97	0.37	8	20	8	17227	
	Other Equipment?							
	Trenching/Foundation	**Start Date:**	**2/14/2026**	**Total phase:**	**20**			
		End Date:	**3/14/2026**					
1	Tractor/Loader/Backhoe	97	0.37	8	20	8	5742	
1	Excavators	158	0.38	8	20	8	9606	
	Other Equipment?							
	Building - Exterior	**Start Date:**	**3/15/2026**	**Total phase:**	**230**			Cement Trucks: 40
		End Date:	**1/31/2027**					
1	Cranes	231	0.29	7	230	7	107854	Electric? (Y/N) ___ Otherwise assumed diesel
3	Forklifts	89	0.2	8	230	8	98256	Liquid Propane (LPG)? (Y/N) ___ Otherwise Assumed diesel
1	Generator Sets	84	0.74	8	230	8	114374	Or temporary line power? (Y/N) ___
3	Tractors/Loaders/Backhoes	97	0.37	7	230	7	173349	
1	Welders	46	0.45	8	230	8	38088	
	Other Equipment?							
	Building - Interior/Architectural Coating	**Start Date:**	**2/1/2027**	**Total phase:**	**20**			
		End Date:	**2/28/2027**					
1	Air Compressors	78	0.48	6	20	6	4493	
	Aerial Lift	62	0.31			0	0	
	Other Equipment?							
	Paving	**Start Date:**	**3/1/2027**	**Total phase:**	**20**			
		Start Date:	**3/26/2027**					
	Cement and Mortar Mixers	9	0.56			0	0	
2	Pavers	130	0.42	8	20	8	17472	Asphalt: 322 cubic yards
2	Paving Equipment	132	0.36	8	20	8	15206	
2	Rollers	80	0.38	8	20	8	9728	
	Tractors/Loaders/Backhoes	97	0.37			0	0	
	Other Equipment?							
	Additional Phases	**Start Date:**		**Total phase:**				
		Start Date:						
						#DIV/0!	0	
						#DIV/0!	0	
						#DIV/0!	0	
						#DIV/0!	0	
						#DIV/0!	0	

Equipment types listed in "Equipment Types" worksheet tab.

Equipment listed in this sheet is to provide an example of inputs

It is assumed that water trucks would be used during grading

Add or subtract phases and equipment, as appropriate

Modify horsepower or load factor, as appropriate

Complete one sheet for each project component

24-134 Oka Road Development, Los Gatos BMPs T4F 2027 Detailed Report

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1.1. Basic Project Information

Data Field	Value
Project Name	24-134 Oka Road Development, Los Gatos BMPs T4F 2027
Construction Start Date	1/1/2026
Operational Year	2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	12.8
Location	Oka Rd, Los Gatos, CA 95032, USA
County	Santa Clara
City	Los Gatos
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1786
EDFZ	1
Electric Utility	Silicon Valley Clean Energy
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Condo/Townhouse	138	Dwelling Unit	6.71	325,770	77,650	—	413	—

Parking Lot	20.0	Space	0.00	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Unmit.	1.40	10.6	0.38	0.93	1.32	0.35	0.22	0.58	3,689
Mit.	0.66	3.55	0.08	0.93	1.01	0.08	0.22	0.30	3,689
% Reduced	53%	66%	79%	—	23%	78%	—	48%	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Unmit.	230	29.2	1.24	7.81	9.05	1.14	3.97	5.12	7,778
Mit.	229	8.11	0.11	7.81	7.91	0.11	3.97	4.07	7,778
% Reduced	< 0.5%	72%	91%	—	13%	90%	—	20%	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—
Unmit.	12.7	9.22	0.34	0.97	1.31	0.31	0.33	0.64	2,853
Mit.	12.6	2.82	0.06	0.97	1.03	0.06	0.33	0.39	2,853
% Reduced	1%	69%	83%	—	22%	82%	—	40%	—
Annual (Max)	—	—	—	—	—	—	—	—	—
Unmit.	2.32	1.68	0.06	0.18	0.24	0.06	0.06	0.12	472
Mit.	2.30	0.51	0.01	0.18	0.19	0.01	0.06	0.07	472

% Reduced	1%	69%	83%	—	22%	82%	—	40%	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—
2026	1.40	10.6	0.38	0.93	1.32	0.35	0.22	0.58	3,689
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—
2026	3.19	29.2	1.24	7.81	9.05	1.14	3.97	5.12	7,778
2027	230	10.2	0.34	0.93	1.27	0.32	0.22	0.54	3,601
Average Daily	—	—	—	—	—	—	—	—	—
2026	1.10	9.22	0.34	0.97	1.31	0.31	0.33	0.64	2,853
2027	12.7	1.06	0.04	0.08	0.11	0.04	0.02	0.05	340
Annual	—	—	—	—	—	—	—	—	—
2026	0.20	1.68	0.06	0.18	0.24	0.06	0.06	0.12	472
2027	2.32	0.19	0.01	0.01	0.02	0.01	< 0.005	0.01	56.3

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—
2026	0.66	3.55	0.08	0.93	1.01	0.08	0.22	0.30	3,689
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—
2026	0.62	8.11	0.11	7.81	7.91	0.11	3.97	4.07	7,778
2027	229	3.58	0.08	0.93	1.01	0.08	0.22	0.30	3,601

Average Daily	—	—	—	—	—	—	—	—	—
2026	0.41	2.82	0.06	0.97	1.03	0.06	0.33	0.39	2,853
2027	12.6	0.38	0.01	0.08	0.08	0.01	0.02	0.02	340
Annual	—	—	—	—	—	—	—	—	—
2026	0.08	0.51	0.01	0.18	0.19	0.01	0.06	0.07	472
2027	2.30	0.07	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	56.3

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Unmit.	12.3	2.30	0.04	5.87	5.91	0.04	1.49	1.52	6,598
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Unmit.	11.5	2.61	0.04	5.87	5.90	0.04	1.49	1.52	6,194
Average Daily (Max)	—	—	—	—	—	—	—	—	—
Unmit.	11.4	2.23	0.04	5.21	5.24	0.03	1.32	1.35	5,629
Annual (Max)	—	—	—	—	—	—	—	—	—
Unmit.	2.08	0.41	0.01	0.95	0.96	0.01	0.24	0.25	932

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Mobile	3.38	2.23	0.04	5.87	5.90	0.04	1.49	1.52	6,352
Area	8.92	0.07	< 0.005	—	< 0.005	< 0.005	—	< 0.005	21.0

Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	11.4
Water	—	—	—	—	—	—	—	—	18.8
Waste	—	—	—	—	—	—	—	—	193
Refrig.	—	—	—	—	—	—	—	—	2.33
Total	12.3	2.30	0.04	5.87	5.91	0.04	1.49	1.52	6,598
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Mobile	3.22	2.61	0.04	5.87	5.90	0.04	1.49	1.52	5,969
Area	8.23	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	11.4
Water	—	—	—	—	—	—	—	—	18.8
Waste	—	—	—	—	—	—	—	—	193
Refrig.	—	—	—	—	—	—	—	—	2.33
Total	11.5	2.61	0.04	5.87	5.90	0.04	1.49	1.52	6,194
Average Daily	—	—	—	—	—	—	—	—	—
Mobile	2.85	2.20	0.03	5.21	5.24	0.03	1.32	1.35	5,394
Area	8.57	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	10.4
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	11.4
Water	—	—	—	—	—	—	—	—	18.8
Waste	—	—	—	—	—	—	—	—	193
Refrig.	—	—	—	—	—	—	—	—	2.33
Total	11.4	2.23	0.04	5.21	5.24	0.03	1.32	1.35	5,629
Annual	—	—	—	—	—	—	—	—	—
Mobile	0.52	0.40	0.01	0.95	0.96	0.01	0.24	0.25	893
Area	1.56	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.72
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	1.88
Water	—	—	—	—	—	—	—	—	3.12
Waste	—	—	—	—	—	—	—	—	31.9
Refrig.	—	—	—	—	—	—	—	—	0.39

Total	2.08	0.41	0.01	0.95	0.96	0.01	0.24	0.25	932

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Mobile	3.38	2.23	0.04	5.87	5.90	0.04	1.49	1.52	6,352
Area	8.92	0.07	< 0.005	—	< 0.005	< 0.005	—	< 0.005	21.0
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	11.4
Water	—	—	—	—	—	—	—	—	18.8
Waste	—	—	—	—	—	—	—	—	193
Refrig.	—	—	—	—	—	—	—	—	2.33
Total	12.3	2.30	0.04	5.87	5.91	0.04	1.49	1.52	6,598
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Mobile	3.22	2.61	0.04	5.87	5.90	0.04	1.49	1.52	5,969
Area	8.23	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	11.4
Water	—	—	—	—	—	—	—	—	18.8
Waste	—	—	—	—	—	—	—	—	193
Refrig.	—	—	—	—	—	—	—	—	2.33
Total	11.5	2.61	0.04	5.87	5.90	0.04	1.49	1.52	6,194
Average Daily	—	—	—	—	—	—	—	—	—
Mobile	2.85	2.20	0.03	5.21	5.24	0.03	1.32	1.35	5,394
Area	8.57	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	10.4
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	11.4
Water	—	—	—	—	—	—	—	—	18.8
Waste	—	—	—	—	—	—	—	—	193

Refrig.	—	—	—	—	—	—	—	—	2.33
Total	11.4	2.23	0.04	5.21	5.24	0.03	1.32	1.35	5,629
Annual	—	—	—	—	—	—	—	—	—
Mobile	0.52	0.40	0.01	0.95	0.96	0.01	0.24	0.25	893
Area	1.56	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.72
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	1.88
Water	—	—	—	—	—	—	—	—	3.12
Waste	—	—	—	—	—	—	—	—	31.9
Refrig.	—	—	—	—	—	—	—	—	0.39
Total	2.08	0.41	0.01	0.95	0.96	0.01	0.24	0.25	932

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.29	20.7	0.84	—	0.84	0.78	—	0.78	3,438
Demolition	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	1.13	0.05	—	0.05	0.04	—	0.04	188
Demolition	—	—	—	0.00	0.00	—	0.00	0.00	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.21	0.01	—	0.01	0.01	—	0.01	31.2
Demolition	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.00	0.12	0.12	0.00	0.03	0.03	118
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.12	< 0.005	0.02	0.03	< 0.005	0.01	0.01	95.1
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	6.57
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.21
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.86

3.2. Demolition (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	4.51	0.06	—	0.06	0.06	—	0.06	3,438
Demolition	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.25	< 0.005	—	< 0.005	< 0.005	—	< 0.005	188
Demolition	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	31.2
Demolition	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.00	0.12	0.12	0.00	0.03	0.03	118
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.12	< 0.005	0.02	0.03	< 0.005	0.01	0.01	95.1
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	6.57
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.21
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.86

3.3. Site Preparation (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.14	29.2	1.24	—	1.24	1.14	—	1.14	5,316
Dust From Material Movement	—	—	—	7.67	7.67	—	3.94	3.94	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.80	0.03	—	0.03	0.03	—	0.03	146
Dust From Material Movement	—	—	—	0.21	0.21	—	0.11	0.11	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.15	0.01	—	0.01	0.01	—	0.01	24.1
Dust From Material Movement	—	—	—	0.04	0.04	—	0.02	0.02	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.00	0.14	0.14	0.00	0.03	0.03	138
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.83
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.63
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	2.59	0.10	—	0.10	0.10	—	0.10	5,316
Dust From Material Movement	—	—	—	7.67	7.67	—	3.94	3.94	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.07	< 0.005	—	< 0.005	< 0.005	—	< 0.005	146
Dust From Material Movement	—	—	—	0.21	0.21	—	0.11	0.11	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	24.1
Dust From Material Movement	—	—	—	0.04	0.04	—	0.02	0.02	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.00	0.14	0.14	0.00	0.03	0.03	138
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.83
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.63
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.65	15.0	0.65	—	0.65	0.59	—	0.59	2,970
Dust From Material Movement	—	—	—	2.77	2.77	—	1.34	1.34	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.82	0.04	—	0.04	0.03	—	0.03	163
Dust From Material Movement	—	—	—	0.15	0.15	—	0.07	0.07	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.15	0.01	—	0.01	0.01	—	0.01	26.9
Dust From Material Movement	—	—	—	0.03	0.03	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.00	0.12	0.12	0.00	0.03	0.03	118

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.08	5.20	0.05	1.06	1.11	0.05	0.29	0.34	4,217
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	6.57
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.28	< 0.005	0.06	0.06	< 0.005	0.02	0.02	231
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.05	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	38.3

3.6. Grading (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	2.04	0.06	—	0.06	0.06	—	0.06	2,970
Dust From Material Movement	—	—	—	2.77	2.77	—	1.34	1.34	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.11	< 0.005	—	< 0.005	< 0.005	—	< 0.005	163
Dust From Material Movement	—	—	—	0.15	0.15	—	0.07	0.07	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	26.9
Dust From Material Movement	—	—	—	0.03	0.03	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.00	0.12	0.12	0.00	0.03	0.03	118
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.08	5.20	0.05	1.06	1.11	0.05	0.29	0.34	4,217
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	6.57
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.28	< 0.005	0.06	0.06	< 0.005	0.02	0.02	231
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.05	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	38.3

3.7. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	9.85	0.38	—	0.38	0.35	—	0.35	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	9.85	0.38	—	0.38	0.35	—	0.35	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.61	5.63	0.22	—	0.22	0.20	—	0.20	1,375
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	1.03	0.04	—	0.04	0.04	—	0.04	228
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.31	0.21	0.00	0.82	0.82	0.00	0.19	0.19	848
Vendor	0.01	0.48	0.01	0.10	0.11	0.01	0.03	0.03	410
Hauling	< 0.005	0.03	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	25.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.28	0.28	0.00	0.82	0.82	0.00	0.19	0.19	785
Vendor	0.01	0.51	0.01	0.10	0.11	0.01	0.03	0.03	409
Hauling	< 0.005	0.03	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	25.8
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.16	0.14	0.00	0.47	0.47	0.00	0.11	0.11	454

Vendor	0.01	0.29	< 0.005	0.06	0.06	< 0.005	0.02	0.02	234
Hauling	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	14.8
Annual	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.00	0.08	0.08	0.00	0.02	0.02	75.1
Vendor	< 0.005	0.05	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	38.7
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.44

3.8. Building Construction (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	2.82	0.07	—	0.07	0.07	—	0.07	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	2.82	0.07	—	0.07	0.07	—	0.07	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	1.61	0.04	—	0.04	0.04	—	0.04	1,375
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.29	0.01	—	0.01	0.01	—	0.01	228
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.31	0.21	0.00	0.82	0.82	0.00	0.19	0.19	848
Vendor	0.01	0.48	0.01	0.10	0.11	0.01	0.03	0.03	410
Hauling	< 0.005	0.03	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	25.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.28	0.28	0.00	0.82	0.82	0.00	0.19	0.19	785
Vendor	0.01	0.51	0.01	0.10	0.11	0.01	0.03	0.03	409
Hauling	< 0.005	0.03	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	25.8
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.16	0.14	0.00	0.47	0.47	0.00	0.11	0.11	454
Vendor	0.01	0.29	< 0.005	0.06	0.06	< 0.005	0.02	0.02	234
Hauling	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	14.8
Annual	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.00	0.08	0.08	0.00	0.02	0.02	75.1
Vendor	< 0.005	0.05	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	38.7
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.44

3.9. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	9.39	0.34	—	0.34	0.31	—	0.31	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.57	0.02	—	0.02	0.02	—	0.02	146
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	< 0.005	—	< 0.005	< 0.005	—	< 0.005	24.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.27	0.25	0.00	0.82	0.82	0.00	0.19	0.19	770
Vendor	0.01	0.49	0.01	0.10	0.11	0.01	0.03	0.03	401
Hauling	< 0.005	0.03	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	25.2
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.00	0.05	0.05	0.00	0.01	0.01	47.3
Vendor	< 0.005	0.03	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	24.3
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.53
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	7.83
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.03
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.25

3.10. Building Construction (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	2.82	0.07	—	0.07	0.07	—	0.07	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.17	< 0.005	—	< 0.005	< 0.005	—	< 0.005	146
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	24.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.27	0.25	0.00	0.82	0.82	0.00	0.19	0.19	770
Vendor	0.01	0.49	0.01	0.10	0.11	0.01	0.03	0.03	401
Hauling	< 0.005	0.03	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	25.2
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.00	0.05	0.05	0.00	0.01	0.01	47.3
Vendor	< 0.005	0.03	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	24.3
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.53
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	7.83
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.03
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.25

3.11. Paving (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.74	6.94	0.30	—	0.30	0.27	—	0.27	1,516
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.38	0.02	—	0.02	0.02	—	0.02	83.1
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	< 0.005	—	< 0.005	< 0.005	—	< 0.005	13.8
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.00	0.12	0.12	0.00	0.03	0.03	116
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.34	< 0.005	0.07	0.08	< 0.005	0.02	0.02	281

Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	6.45
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	15.4
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.55

3.12. Paving (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	1.93	0.03	—	0.03	0.03	—	0.03	1,516
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.11	< 0.005	—	< 0.005	< 0.005	—	< 0.005	83.1
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	13.8
Paving	0.00	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.00	0.12	0.12	0.00	0.03	0.03	116
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.34	< 0.005	0.07	0.08	< 0.005	0.02	0.02	281
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	6.45
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	15.4
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.55

3.13. Architectural Coating (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.83	0.02	—	0.02	0.02	—	0.02	134
Architectural Coatings	229	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.34
Architectural Coatings	12.6	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.22
Architectural Coatings	2.29	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.00	0.16	0.16	0.00	0.04	0.04	154
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	8.54
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.41
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.65	< 0.005	—	< 0.005	< 0.005	—	< 0.005	134
Architectural Coatings	229	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.34
Architectural Coatings	12.6	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.22
Architectural Coatings	2.29	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.00	0.16	0.16	0.00	0.04	0.04	154

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	8.54
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.41
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Trenching (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	1.86	0.06	—	0.06	0.05	—	0.05	433
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	< 0.005	—	< 0.005	< 0.005	—	< 0.005	23.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.93
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.04	0.04	0.00	0.01	0.01	39.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.19
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.36
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Trenching (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.81	0.01	—	0.01	0.01	—	0.01	433
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	23.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.93
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.04	0.04	0.00	0.01	0.01	39.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.19
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.36
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	3.38	2.23	0.04	5.87	5.90	0.04	1.49	1.52	6,352
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.38	2.23	0.04	5.87	5.90	0.04	1.49	1.52	6,352
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	3.22	2.61	0.04	5.87	5.90	0.04	1.49	1.52	5,969
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.22	2.61	0.04	5.87	5.90	0.04	1.49	1.52	5,969
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.52	0.40	0.01	0.95	0.96	0.01	0.24	0.25	893
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.52	0.40	0.01	0.95	0.96	0.01	0.24	0.25	893

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	3.38	2.23	0.04	5.87	5.90	0.04	1.49	1.52	6,352
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.38	2.23	0.04	5.87	5.90	0.04	1.49	1.52	6,352
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—

Condo/Townhouse	3.22	2.61	0.04	5.87	5.90	0.04	1.49	1.52	5,969
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.22	2.61	0.04	5.87	5.90	0.04	1.49	1.52	5,969
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.52	0.40	0.01	0.95	0.96	0.01	0.24	0.25	893
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.52	0.40	0.01	0.95	0.96	0.01	0.24	0.25	893

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	11.4
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	11.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	11.4
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	11.4
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	1.88
Parking Lot	—	—	—	—	—	—	—	—	0.00

Total	—	—	—	—	—	—	—	—	1.88

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	11.4
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	11.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	11.4
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	11.4
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	1.88
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	1.88

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—

Condo/Townhouse	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	6.97	—	—	—	—	—	—	—	—
Architectural Coatings	1.26	—	—	—	—	—	—	—	—
Landscape Equipment	0.69	0.07	< 0.005	—	< 0.005	< 0.005	—	< 0.005	21.0
Total	8.92	0.07	< 0.005	—	< 0.005	< 0.005	—	< 0.005	21.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	6.97	—	—	—	—	—	—	—	—
Architectural Coatings	1.26	—	—	—	—	—	—	—	—
Total	8.23	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	1.27	—	—	—	—	—	—	—	—

Architectural Coatings	0.23	—	—	—	—	—	—	—	—
Landscape Equipment	0.06	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.72
Total	1.56	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.72

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	6.97	—	—	—	—	—	—	—	—
Architectural Coatings	1.26	—	—	—	—	—	—	—	—
Landscape Equipment	0.69	0.07	< 0.005	—	< 0.005	< 0.005	—	< 0.005	21.0
Total	8.92	0.07	< 0.005	—	< 0.005	< 0.005	—	< 0.005	21.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	6.97	—	—	—	—	—	—	—	—
Architectural Coatings	1.26	—	—	—	—	—	—	—	—
Total	8.23	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	1.27	—	—	—	—	—	—	—	—

Architectural Coatings	0.23	—	—	—	—	—	—	—	—
Landscape Equipment	0.06	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.72
Total	1.56	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.72

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	18.8
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	18.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	18.8
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	18.8
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	3.12
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	3.12

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	18.8
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	18.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	18.8
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	18.8
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	3.12
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	3.12

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	193
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	193

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	193
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	193
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	31.9
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	31.9

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	193
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	193
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	193
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	193
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	31.9
Parking Lot	—	—	—	—	—	—	—	—	0.00

Total	—	—	—	—	—	—	—	—	31.9

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	2.33
Total	—	—	—	—	—	—	—	—	2.33
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	2.33
Total	—	—	—	—	—	—	—	—	2.33
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	0.39
Total	—	—	—	—	—	—	—	—	0.39

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	2.33
Total	—	—	—	—	—	—	—	—	2.33

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	2.33
Total	—	—	—	—	—	—	—	—	2.33
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	0.39
Total	—	—	—	—	—	—	—	—	0.39

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—

Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	1/1/2026	1/29/2026	5.00	20.0	—
Site Preparation	Site Preparation	1/30/2026	2/13/2026	5.00	10.0	—
Grading	Grading	2/14/2026	3/14/2026	5.00	20.0	—

Building Construction	Building Construction	3/15/2026	1/31/2027	5.00	230	—
Paving	Paving	3/1/2027	3/26/2027	5.00	20.0	—
Architectural Coating	Architectural Coating	2/1/2027	2/28/2027	5.00	20.0	—
Trenching	Trenching	2/14/2026	3/14/2026	5.00	20.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38

Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48
Trenching	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Trenching	Excavators	Diesel	Average	1.00	8.00	36.0	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Final	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48

Trenching	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Trenching	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	1.29	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	57.2	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	99.4	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	14.8	8.40	HHDT,MHDT
Building Construction	Hauling	0.35	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—

Paving	Worker	15.0	11.7	LDA,LDT1,LDT2
Paving	Vendor	—	8.40	HHDT,MHDT
Paving	Hauling	3.90	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	19.9	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	5.00	11.7	LDA,LDT1,LDT2
Trenching	Vendor	—	8.40	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	1.29	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—

Grading	Worker	15.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	57.2	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	99.4	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	14.8	8.40	HHDT,MHDT
Building Construction	Hauling	0.35	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.7	LDA,LDT1,LDT2
Paving	Vendor	—	8.40	HHDT,MHDT
Paving	Hauling	3.90	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	19.9	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	5.00	11.7	LDA,LDT1,LDT2
Trenching	Vendor	—	8.40	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	659,684	219,895	0.00	0.00	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	—	—
Site Preparation	—	—	15.0	0.00	—
Grading	9,148	—	20.0	0.00	—
Paving	0.00	0.00	0.00	0.00	0.00

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Condo/Townhouse	—	0%
Parking Lot	0.00	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O

2026	0.00	2.34	0.00	0.00
2027	0.00	2.34	0.00	0.00

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Condo/Townhouse	1,010	1,123	867	367,125	7,479	8,316	6,416	2,717,990
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Condo/Townhouse	1,010	1,123	867	367,125	7,479	8,316	6,416	2,717,990
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0

Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
659684.25	219,895	0.00	0.00	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Condo/Townhouse	1,771,833	2.34	0.0000	0.0000	0.00
Parking Lot	0.00	2.34	0.0000	0.0000	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Condo/Townhouse	1,771,833	2.34	0.0000	0.0000	0.00
Parking Lot	0.00	2.34	0.0000	0.0000	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Condo/Townhouse	5,004,763	1,014,581
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Condo/Townhouse	5,004,763	1,014,581
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse	102	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse	102	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Condo/Townhouse	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Condo/Townhouse	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	12.6	annual days of extreme heat
Extreme Precipitation	5.85	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	22.2
AQ-PM	12.5

AQ-DPM	56.8
Drinking Water	22.7
Lead Risk Housing	38.4
Pesticides	0.00
Toxic Releases	31.8
Traffic	76.7
Effect Indicators	—
CleanUp Sites	62.4
Groundwater	89.2
Haz Waste Facilities/Generators	91.4
Impaired Water Bodies	23.9
Solid Waste	0.00
Sensitive Population	—
Asthma	4.36
Cardio-vascular	4.80
Low Birth Weights	0.50
Socioeconomic Factor Indicators	—
Education	4.21
Housing	10.5
Linguistic	4.59
Poverty	11.9
Unemployment	26.9

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	96.81765687

Employed	97.20261773
Median HI	96.0733992
Education	—
Bachelor's or higher	86.86000257
High school enrollment	100
Preschool enrollment	83.44668292
Transportation	—
Auto Access	82.44578468
Active commuting	1.039394328
Social	—
2-parent households	32.69600924
Voting	93.91761838
Neighborhood	—
Alcohol availability	85.19183883
Park access	48.62055691
Retail density	71.93635314
Supermarket access	39.26600796
Tree canopy	90.2219941
Housing	—
Homeownership	39.09919158
Housing habitability	94.64904401
Low-inc homeowner severe housing cost burden	97.72873091
Low-inc renter severe housing cost burden	96.49685615
Uncrowded housing	82.07365584
Health Outcomes	—
Insured adults	88.86179905
Arthritis	0.0
Asthma ER Admissions	94.9

High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	89.3
Cognitively Disabled	56.3
Physically Disabled	87.9
Heart Attack ER Admissions	94.9
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	91.6
Elderly	42.6
English Speaking	69.6
Foreign-born	27.9
Outdoor Workers	47.4

Climate Change Adaptive Capacity	—
Impervious Surface Cover	65.7
Traffic Density	76.9
Traffic Access	23.0
Other Indices	—
Hardship	6.4
Other Decision Support	—
2016 Voting	87.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	1.00
Healthy Places Index Score for Project Location (b)	96.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification

Characteristics: Utility Information	Los Gatos default clean energy provider is Silicon Valley Clean Energy.
Construction: Construction Phases	Defaults based on inputted land use. Added trenching.
Land Use	Total lot acreage, number of units and parking spaces, building square footage, and landscape area provided from "241025 Submittal Plan Set (compressed)_14789 Oka Road (4).pdf.
Construction: Off-Road Equipment	Defaults based on land use. Reviewed and confirmed by applicant.
Construction: Trips and VMT	Demolition = 129 tons of pavement demo'ed and hauled (1.29 trips/day), Building Construction = 40 concrete truck round trips (0.35 trips/day), Paving = 322-cy of asphalt (3.9 trips/day).
Construction: On-Road Fugitive Dust	Air District recommended BMPs 15 mph - required by Los Altos GP.
Operations: Hearths	No hearths
Operations: Water and Waste Water	Wastewater treatment 100% aerobic - no septic tanks or lagoons.
Operations: Energy Use	According to project applicant, project will use no natural gas and be all-electric. Converted natural gas for land use to electricity.

24-134 Oka Road Development, Los Gatos BMPs T4F HRA Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	24-134 Oka Road Development, Los Gatos BMPs T4F HRA
Construction Start Date	1/1/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	12.8
Location	Oka Rd, Los Gatos, CA 95032, USA
County	Santa Clara
City	Los Gatos
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1786
EDFZ	1
Electric Utility	Silicon Valley Clean Energy
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Condo/Townhouse	138	Dwelling Unit	6.71	325,770	77,650	—	413	—
Parking Lot	20.0	Space	0.00	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Unmit.	1.34	10.1	0.38	0.04	0.42	0.35	0.01	0.36	2,501
Mit.	0.60	3.05	0.08	0.04	0.12	0.07	0.01	0.08	2,501
% Reduced	55%	70%	80%	—	72%	79%	—	77%	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Unmit.	230	29.2	1.24	7.67	8.91	1.14	3.94	5.08	5,325
Mit.	229	4.54	0.10	7.67	7.77	0.10	3.94	4.04	5,325
% Reduced	< 0.5%	84%	92%	—	13%	91%	—	21%	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—
Unmit.	12.7	8.68	0.34	0.39	0.72	0.31	0.19	0.50	1,961
Mit.	12.6	2.28	0.05	0.39	0.44	0.05	0.19	0.24	1,961
% Reduced	1%	74%	84%	—	39%	83%	—	52%	—
Annual (Max)	—	—	—	—	—	—	—	—	—
Unmit.	2.32	1.58	0.06	0.07	0.13	0.06	0.03	0.09	325
Mit.	2.30	0.42	0.01	0.07	0.08	0.01	0.03	0.04	325
% Reduced	1%	74%	84%	—	39%	83%	—	52%	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—
2026	1.34	10.1	0.38	0.04	0.42	0.35	0.01	0.36	2,501
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—
2026	3.19	29.2	1.24	7.67	8.91	1.14	3.94	5.08	5,325
2027	230	9.64	0.34	0.04	0.38	0.31	0.01	0.32	2,497
Average Daily	—	—	—	—	—	—	—	—	—
2026	1.08	8.68	0.34	0.39	0.72	0.31	0.19	0.50	1,961
2027	12.7	1.01	0.04	< 0.005	0.04	0.03	< 0.005	0.04	244
Annual	—	—	—	—	—	—	—	—	—
2026	0.20	1.58	0.06	0.07	0.13	0.06	0.03	0.09	325
2027	2.32	0.19	0.01	< 0.005	0.01	0.01	< 0.005	0.01	40.3

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—
2026	0.60	3.05	0.08	0.04	0.12	0.07	0.01	0.08	2,501
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—
2026	0.59	4.54	0.10	7.67	7.77	0.10	3.94	4.04	5,325
2027	229	3.06	0.07	0.04	0.12	0.07	0.01	0.08	2,497
Average Daily	—	—	—	—	—	—	—	—	—
2026	0.39	2.28	0.05	0.39	0.44	0.05	0.19	0.24	1,961

2027	12.6	0.33	0.01	< 0.005	0.01	0.01	< 0.005	0.01	244
Annual	—	—	—	—	—	—	—	—	—
2026	0.07	0.42	0.01	0.07	0.08	0.01	0.03	0.04	325
2027	2.30	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	40.3

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.29	20.7	0.84	—	0.84	0.78	—	0.78	3,438
Demolition	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	1.13	0.05	—	0.05	0.04	—	0.04	188
Demolition	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.21	0.01	—	0.01	0.01	—	0.01	31.2
Demolition	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	8.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.59
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.43
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.25
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.04

3.2. Demolition (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	4.51	0.06	—	0.06	0.06	—	0.06	3,438
Demolition	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.25	< 0.005	—	< 0.005	< 0.005	—	< 0.005	188
Demolition	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	31.2
Demolition	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	8.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.59
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.43
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.25
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.04

3.3. Site Preparation (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.14	29.2	1.24	—	1.24	1.14	—	1.14	5,316
Dust From Material Movement	—	—	—	7.67	7.67	—	3.94	3.94	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.80	0.03	—	0.03	0.03	—	0.03	146
Dust From Material Movement	—	—	—	0.21	0.21	—	0.11	0.11	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.15	0.01	—	0.01	0.01	—	0.01	24.1
Dust From Material Movement	—	—	—	0.04	0.04	—	0.02	0.02	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	9.33
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.25
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.04
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	2.59	0.10	—	0.10	0.10	—	0.10	5,316
Dust From Material Movement	—	—	—	7.67	7.67	—	3.94	3.94	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	< 0.005	—	< 0.005	< 0.005	—	< 0.005	146
Dust From Material Movement	—	—	—	0.21	0.21	—	0.11	0.11	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	24.1
Dust From Material Movement	—	—	—	0.04	0.04	—	0.02	0.02	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	9.33
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.25
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.04
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.65	15.0	0.65	—	0.65	0.59	—	0.59	2,970
Dust From Material Movement	—	—	—	2.77	2.77	—	1.34	1.34	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.82	0.04	—	0.04	0.03	—	0.03	163
Dust From Material Movement	—	—	—	0.15	0.15	—	0.07	0.07	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.15	0.01	—	0.01	0.01	—	0.01	26.9
Dust From Material Movement	—	—	—	0.03	0.03	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	8.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	0.95	< 0.005	0.03	0.03	< 0.005	0.01	0.01	203
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.43
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.1

Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.84

3.6. Grading (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	2.04	0.06	—	0.06	0.06	—	0.06	2,970
Dust From Material Movement	—	—	—	2.77	2.77	—	1.34	1.34	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.11	< 0.005	—	< 0.005	< 0.005	—	< 0.005	163
Dust From Material Movement	—	—	—	0.15	0.15	—	0.07	0.07	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	26.9
Dust From Material Movement	—	—	—	0.03	0.03	—	0.01	0.01	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	8.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	0.95	< 0.005	0.03	0.03	< 0.005	0.01	0.01	203
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.43
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.1
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.84

3.7. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	9.85	0.38	—	0.38	0.35	—	0.35	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.07	9.85	0.38	—	0.38	0.35	—	0.35	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.61	5.63	0.22	—	0.22	0.20	—	0.20	1,375
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	1.03	0.04	—	0.04	0.04	—	0.04	228
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.27	0.06	0.00	0.04	0.04	0.00	0.01	0.01	54.4
Vendor	0.01	0.16	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	39.6
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.24
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.25	0.08	0.00	0.04	0.04	0.00	0.01	0.01	53.0
Vendor	0.01	0.17	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	39.8
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.24
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.14	0.04	0.00	0.02	0.02	0.00	< 0.005	< 0.005	30.0
Vendor	< 0.005	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	22.7
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.71
Annual	—	—	—	—	—	—	—	—	—
Worker	0.03	0.01	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	4.96
Vendor	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.75
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.12

3.8. Building Construction (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	2.82	0.07	—	0.07	0.07	—	0.07	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	2.82	0.07	—	0.07	0.07	—	0.07	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	1.61	0.04	—	0.04	0.04	—	0.04	1,375
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.29	0.01	—	0.01	0.01	—	0.01	228
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.27	0.06	0.00	0.04	0.04	0.00	0.01	0.01	54.4
Vendor	0.01	0.16	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	39.6
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.24
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.25	0.08	0.00	0.04	0.04	0.00	0.01	0.01	53.0

Vendor	0.01	0.17	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	39.8
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.24
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.14	0.04	0.00	0.02	0.02	0.00	< 0.005	< 0.005	30.0
Vendor	< 0.005	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	22.7
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.71
Annual	—	—	—	—	—	—	—	—	—
Worker	0.03	0.01	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	4.96
Vendor	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.75
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.12

3.9. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	9.39	0.34	—	0.34	0.31	—	0.31	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.57	0.02	—	0.02	0.02	—	0.02	146
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	< 0.005	—	< 0.005	< 0.005	—	< 0.005	24.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.24	0.07	0.00	0.04	0.04	0.00	0.01	0.01	51.3
Vendor	0.01	0.17	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	39.1
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.22
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.12
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.37
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.07
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.52
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.39
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01

3.10. Building Construction (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	2.82	0.07	—	0.07	0.07	—	0.07	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.17	< 0.005	—	< 0.005	< 0.005	—	< 0.005	146
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	24.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.24	0.07	0.00	0.04	0.04	0.00	0.01	0.01	51.3
Vendor	0.01	0.17	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	39.1
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.22
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.12
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.37
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.07
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.52
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.39
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01

3.11. Paving (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.74	6.94	0.30	—	0.30	0.27	—	0.27	1,516
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.38	0.02	—	0.02	0.02	—	0.02	83.1
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	< 0.005	—	< 0.005	< 0.005	—	< 0.005	13.8
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	7.75
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	13.6
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.43
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.74
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.12

3.12. Paving (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	1.93	0.03	—	0.03	0.03	—	0.03	1,516
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.11	< 0.005	—	< 0.005	< 0.005	—	< 0.005	83.1
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	13.8
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	7.75
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	< 0.005	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	13.6
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.43
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.74
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.12

3.13. Architectural Coating (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.83	0.02	—	0.02	0.02	—	0.02	134
Architectural Coatings	229	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.34
Architectural Coatings	12.6	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.22
Architectural Coatings	2.29	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.05	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	10.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.56
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.65	< 0.005	—	< 0.005	< 0.005	—	< 0.005	134
Architectural Coatings	229	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.34
Architectural Coatings	12.6	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.22
Architectural Coatings	2.29	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.05	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	10.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.56
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.09

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Trenching (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	1.86	0.06	—	0.06	0.05	—	0.05	433
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	< 0.005	—	< 0.005	< 0.005	—	< 0.005	23.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.93
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.67
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.14
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.02
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Trenching (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.81	0.01	—	0.01	0.01	—	0.01	433
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	23.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.93
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.67
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.14
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.02
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	1/1/2026	1/29/2026	5.00	20.0	—
Site Preparation	Site Preparation	1/30/2026	2/13/2026	5.00	10.0	—
Grading	Grading	2/14/2026	3/14/2026	5.00	20.0	—
Building Construction	Building Construction	3/15/2026	1/31/2027	5.00	230	—
Paving	Paving	3/1/2027	3/26/2027	5.00	20.0	—
Architectural Coating	Architectural Coating	2/1/2027	2/28/2027	5.00	20.0	—
Trenching	Trenching	2/14/2026	3/14/2026	5.00	20.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38

Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48
Trenching	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Trenching	Excavators	Diesel	Average	1.00	8.00	36.0	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40

Site Preparation	Tractors/Loaders/Back	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Final	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48
Trenching	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Trenching	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	0.50	LDA,LDT1,LDT2
Demolition	Vendor	—	0.50	HHDT,MHDT
Demolition	Hauling	1.29	0.50	HHDT
Demolition	Onsite truck	—	—	HHDT

Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	0.50	LDA,LDT1,LDT2
Site Preparation	Vendor	—	0.50	HHDT,MHDT
Site Preparation	Hauling	0.00	0.50	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	0.50	LDA,LDT1,LDT2
Grading	Vendor	—	0.50	HHDT,MHDT
Grading	Hauling	57.2	0.50	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	99.4	0.50	LDA,LDT1,LDT2
Building Construction	Vendor	14.8	0.50	HHDT,MHDT
Building Construction	Hauling	0.35	0.50	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	0.50	LDA,LDT1,LDT2
Paving	Vendor	—	0.50	HHDT,MHDT
Paving	Hauling	3.90	0.50	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	19.9	0.50	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	0.50	HHDT,MHDT
Architectural Coating	Hauling	0.00	0.50	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	5.00	0.50	LDA,LDT1,LDT2
Trenching	Vendor	—	0.50	HHDT,MHDT

Trenching	Hauling	0.00	0.50	HHDT
Trenching	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	0.50	LDA,LDT1,LDT2
Demolition	Vendor	—	0.50	HHDT,MHDT
Demolition	Hauling	1.29	0.50	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	0.50	LDA,LDT1,LDT2
Site Preparation	Vendor	—	0.50	HHDT,MHDT
Site Preparation	Hauling	0.00	0.50	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	0.50	LDA,LDT1,LDT2
Grading	Vendor	—	0.50	HHDT,MHDT
Grading	Hauling	57.2	0.50	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	99.4	0.50	LDA,LDT1,LDT2
Building Construction	Vendor	14.8	0.50	HHDT,MHDT
Building Construction	Hauling	0.35	0.50	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	0.50	LDA,LDT1,LDT2
Paving	Vendor	—	0.50	HHDT,MHDT

Paving	Hauling	3.90	0.50	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	19.9	0.50	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	0.50	HHDT,MHDT
Architectural Coating	Hauling	0.00	0.50	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	5.00	0.50	LDA,LDT1,LDT2
Trenching	Vendor	—	0.50	HHDT,MHDT
Trenching	Hauling	0.00	0.50	HHDT
Trenching	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	659,684	219,895	0.00	0.00	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	—	—
Site Preparation	—	—	15.0	0.00	—

Grading	9,148	—	20.0	0.00	—
Paving	0.00	0.00	0.00	0.00	0.00

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Condo/Townhouse	—	0%
Parking Lot	0.00	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	2.34	0.00	0.00
2027	0.00	2.34	0.00	0.00

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	12.6	annual days of extreme heat
Extreme Precipitation	5.85	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A

Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	22.2
AQ-PM	12.5
AQ-DPM	56.8
Drinking Water	22.7
Lead Risk Housing	38.4
Pesticides	0.00
Toxic Releases	31.8
Traffic	76.7
Effect Indicators	—
CleanUp Sites	62.4
Groundwater	89.2

Haz Waste Facilities/Generators	91.4
Impaired Water Bodies	23.9
Solid Waste	0.00
Sensitive Population	—
Asthma	4.36
Cardio-vascular	4.80
Low Birth Weights	0.50
Socioeconomic Factor Indicators	—
Education	4.21
Housing	10.5
Linguistic	4.59
Poverty	11.9
Unemployment	26.9

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	96.81765687
Employed	97.20261773
Median HI	96.0733992
Education	—
Bachelor's or higher	86.86000257
High school enrollment	100
Preschool enrollment	83.44668292
Transportation	—
Auto Access	82.44578468
Active commuting	1.039394328

Social	—
2-parent households	32.69600924
Voting	93.91761838
Neighborhood	—
Alcohol availability	85.19183883
Park access	48.62055691
Retail density	71.93635314
Supermarket access	39.26600796
Tree canopy	90.2219941
Housing	—
Homeownership	39.09919158
Housing habitability	94.64904401
Low-inc homeowner severe housing cost burden	97.72873091
Low-inc renter severe housing cost burden	96.49685615
Uncrowded housing	82.07365584
Health Outcomes	—
Insured adults	88.86179905
Arthritis	0.0
Asthma ER Admissions	94.9
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	89.3
Cognitively Disabled	56.3
Physically Disabled	87.9

Heart Attack ER Admissions	94.9
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	91.6
Elderly	42.6
English Speaking	69.6
Foreign-born	27.9
Outdoor Workers	47.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	65.7
Traffic Density	76.9
Traffic Access	23.0
Other Indices	—
Hardship	6.4
Other Decision Support	—
2016 Voting	87.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	1.00
Healthy Places Index Score for Project Location (b)	96.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Los Gatos default clean energy provider is Silicon Valley Clean Energy.
Construction: Construction Phases	Defaults based on inputted land use. Added trenching.
Land Use	Total lot acreage, number of units and parking spaces, building square footage, and landscape area provided from "241025 Submittal Plan Set (compressed)_14789 Oka Road (4).pdf.
Construction: Off-Road Equipment	Defaults based on land use. Reviewed and confirmed by applicant.
Construction: Trips and VMT	Demolition = 129 tons of pavement demo'ed and hauled (1.29 trips/day), Building Construction = 40 concrete truck round trips (0.35 trips/day), Paving = 322-cy of asphalt (3.9 trips/day). HRA = 0.5 mile trip length for localized emissions.
Construction: On-Road Fugitive Dust	Air District recommended BMPs 15 mph - required by Los Altos GP.
Operations: Hearths	No hearths

Operations: Water and Waste Water	Wastewater treatment 100% aerobic - no septic tanks or lagoons.
Operations: Energy Use	According to project applicant, project will use no natural gas and be all-electric. Converted natural gas for land use to electricity.

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: County
Region: Santa Clara
Calendar Year: 2026
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Y	Vehicle Cat	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Energy Con	Fuel Consumption	Calculations Fuel Econo	VMT * Fuel Econ
Santa Clara	2026	HHDT	Aggregate	Aggregate	Gasoline	1.890208	133.7551	133.7551	0	37.81927	0	0.031786	4.207967	562.8371
Santa Clara	2026	HHDT	Aggregate	Aggregate	Diesel	8867.795	1016012	1016012	0	130549	0	168.4523	6.03145	6128025
Santa Clara	2026	HHDT	Aggregate	Aggregate	Electricity	110.5302	11535.57	0	11535.57	1443.078	21268.51	0	0	0
Santa Clara	2026	HHDT	Aggregate	Aggregate	Natural Gas	863.4608	56635.39	56635.39	0	7769.707	0	10.99959	5.148865	291608
Santa Clara	2026	LDA	Aggregate	Aggregate	Gasoline	598869.8	22031466	22031466	0	2780456	0	698.905	31.52283	6.94E+08
Santa Clara	2026	LDA	Aggregate	Aggregate	Diesel	1478.944	42434.32	42434.32	0	6277.405	0	0.948972	44.7161	1897497
Santa Clara	2026	LDA	Aggregate	Aggregate	Electricity	64495.24	2739705	0	2739705	312996.4	1057752	0	0	0
Santa Clara	2026	LDA	Aggregate	Aggregate	Plug-in Hyb	20380.43	866414.1	412496.8	453917.3	84273.1	137096.6	14.00214	61.87729	53611355
Santa Clara	2026	LDT1	Aggregate	Aggregate	Gasoline	50750.47	1625960	1625960	0	225981.5	0	61.85304	26.28748	42742400
Santa Clara	2026	LDT1	Aggregate	Aggregate	Diesel	18.47771	256.5587	256.5587	0	50.46	0	0.010459	24.53082	6293.595
Santa Clara	2026	LDT1	Aggregate	Aggregate	Electricity	263.5822	10628.88	0	10628.88	1254.204	4103.625	0	0	0
Santa Clara	2026	LDT1	Aggregate	Aggregate	Plug-in Hyb	130.6819	5898.082	2516.052	3382.03	540.3696	1021.474	0.085873	68.6841	405104.5
Santa Clara	2026	LDT2	Aggregate	Aggregate	Gasoline	296178.9	10561285	10561285	0	1383934	0	411.8229	25.64521	2.71E+08
Santa Clara	2026	LDT2	Aggregate	Aggregate	Diesel	1079.589	39200.14	39200.14	0	5104.36	0	1.138772	34.42316	1349393
Santa Clara	2026	LDT2	Aggregate	Aggregate	Electricity	2705.079	90693.22	0	90693.22	13682.37	35015.07	0	0	0
Santa Clara	2026	LDT2	Aggregate	Aggregate	Plug-in Hyb	2986.353	127896.3	57308.29	70587.98	12348.57	21319.68	1.964782	65.09439	8325330
Santa Clara	2026	LHDT1	Aggregate	Aggregate	Gasoline	19567.35	734252.9	734252.9	0	291524.3	0	72.95825	10.06401	7389532
Santa Clara	2026	LHDT1	Aggregate	Aggregate	Diesel	10635.31	416619.3	416619.3	0	133778.8	0	25.78352	16.15835	6731882
Santa Clara	2026	LHDT1	Aggregate	Aggregate	Electricity	378.0593	23974.57	0	23974.57	5290.738	15701.21	0	0	0
Santa Clara	2026	LHDT2	Aggregate	Aggregate	Gasoline	2513.651	91174.03	91174.03	0	37449.66	0	10.22402	8.917629	813056.1
Santa Clara	2026	LHDT2	Aggregate	Aggregate	Diesel	4995.258	193100.7	193100.7	0	62834.06	0	14.26064	13.54082	2614741
Santa Clara	2026	LHDT2	Aggregate	Aggregate	Electricity	96.38373	5822.064	0	5822.064	1278.565	3755.595	0	0	0
Santa Clara	2026	MCY	Aggregate	Aggregate	Gasoline	28797.04	167092.5	167092.5	0	57594.08	0	3.93897	42.42035	7088121
Santa Clara	2026	MDV	Aggregate	Aggregate	Gasoline	162557.9	5631323	5631323	0	753924.4	0	266.3023	21.14636	1.19E+08
Santa Clara	2026	MDV	Aggregate	Aggregate	Diesel	2430.299	84111.54	84111.54	0	11337.22	0	3.256368	25.82986	2172589
Santa Clara	2026	MDV	Aggregate	Aggregate	Electricity	2850.956	95858.35	0	95858.35	14435.41	37009.23	0	0	0
Santa Clara	2026	MDV	Aggregate	Aggregate	Plug-in Hyb	1813.351	74577.72	33714.26	40863.46	7498.208	12341.98	1.172443	63.60883	4743802
Santa Clara	2026	MH	Aggregate	Aggregate	Gasoline	2263.186	21108.38	21108.38	0	226.4092	0	4.777043	4.418712	93271.84
Santa Clara	2026	MH	Aggregate	Aggregate	Diesel	1010.774	9718.417	9718.417	0	101.0774	0	1.036246	9.378485	91144.03
Santa Clara	2026	MHDT	Aggregate	Aggregate	Gasoline	1410.726	72468.64	72468.64	0	28225.8	0	14.78075	4.902907	355307
Santa Clara	2026	MHDT	Aggregate	Aggregate	Diesel	10675.11	435455.4	435455.4	0	127504.2	0	50.98887	8.540204	3718878
Santa Clara	2026	MHDT	Aggregate	Aggregate	Electricity	167.5841	8816.663	0	8816.663	2173.174	9651.078	0	0	0
Santa Clara	2026	MHDT	Aggregate	Aggregate	Natural Gas	107.6314	4901.771	4901.771	0	1001.682	0	0.680491	7.203282	35308.84
Santa Clara	2026	OBUS	Aggregate	Aggregate	Gasoline	419.1997	18162.11	18162.11	0	8387.348	0	3.690049	4.921916	89392.39
Santa Clara	2026	OBUS	Aggregate	Aggregate	Diesel	949.0452	62674.48	62674.48	0	9750.025	0	7.826178	8.008313	501916.8
Santa Clara	2026	OBUS	Aggregate	Aggregate	Electricity	4.484159	364.7881	0	364.7881	89.71906	404.1294	0	0	0
Santa Clara	2026	OBUS	Aggregate	Aggregate	Natural Gas	9.101244	599.9791	599.9791	0	81.00107	0	0.07591	7.903824	4742.129
Santa Clara	2026	SBUS	Aggregate	Aggregate	Gasoline	183.7933	9054.551	9054.551	0	735.1732	0	0.904247	10.01336	90666.43
Santa Clara	2026	SBUS	Aggregate	Aggregate	Diesel	674.9981	15210.89	15210.89	0	9773.973	0	1.847679	8.232431	125222.6
Santa Clara	2026	SBUS	Aggregate	Aggregate	Electricity	7.587222	244.2395	0	244.2395	87.39442	257.2955	0	0	0
Santa Clara	2026	SBUS	Aggregate	Aggregate	Natural Gas	26.16468	642.5523	642.5523	0	378.8645	0	0.1154	5.568033	3577.752
Santa Clara	2026	UBUS	Aggregate	Aggregate	Gasoline	46.35522	4840.865	4840.865	0	185.4209	0	0.521637	9.280147	44923.93
Santa Clara	2026	UBUS	Aggregate	Aggregate	Diesel	396.77	44084.04	44084.04	0	1587.08	0	4.819885	9.146285	403205.2
Santa Clara	2026	UBUS	Aggregate	Aggregate	Electricity	28.65959	2995.558	0	2995.558	114.6384	5221.989	0	0	0
Santa Clara	2026	UBUS	Aggregate	Aggregate	Natural Gas	62.84535	7257.192	7257.192	0	251.3814	0	1.221392	5.941741	43120.36
													Sum of VMT	1.24E+09
													Total VMT	47462662
													Weighted A	26.05
													Light Duty Only	
													Sum of VMT	1.07E+09
													Total VMT	38141838
													Weighted A	28.15

Attachment 2: Project Construction Dispersion Modeling Inputs and Health Risk Calculations

Construction Health Risk Assessment and Calculations

14789 Oka Road, Los Gatos, CA

DPM Emissions and Modeling Emission Rates - Unmitigated

Construction Year	Activity	DPM (ton/year)	Area Source	DPM Emissions (lb/yr)	DPM Emissions (lb/hr)	DPM Emissions (g/s)	Modeled Area (m^2)	DPM Emission Rate ($g/s/m^2$)
2026-2027	Construction	0.0681	CON_DPM	136.3	0.05241	6.60E-03	27,436	2.41E-07
Total		***0.0681***		***136.3***	***0.0524***	***0.0066***		

Construction Hours

hr/day =	10	(8am - 6pm M-F)
days/yr =	260	
hours/year =	2600	

DPM Construction Emissions and Modeling Emission Rates - With Mitigation

Construction Year	Activity	DPM (ton/year)	Area Source	DPM Emissions (lb/yr)	DPM Emissions (lb/hr)	DPM Emissions (g/s)	Modeled Area (m^2)	DPM Emission Rate ($g/s/m^2$)
2026-2027	Construction	0.0108	CON_DPM	21.5	0.00828	1.04E-03	27,436	3.80E-08
Total		***0.0108***		***21.5***	***0.0083***	***0.0010***		

Construction Hours

hr/day =	10	(8am - 6pm M-F)
days/yr =	260	
hours/year =	2600	

PM2.5 Fugitive Dust Emissions for Modeling - Unmitigated

Construction Year	Activity	Area Source	PM2.5 Emissions (ton/year)	PM2.5 Emissions (lb/yr)	PM2.5 Emissions (lb/hr)	PM2.5 Emissions (g/s)	Modeled Area (m^2)	PM2.5 Emission Rate $g/s/m^2$
2026-2027	Construction	CON_FUG	0.0344	68.7	0.02643	3.33E-03	27,436	1.21E-07
Total			***0.0344***	***68.7***	***0.0264***	***0.0033***		

Construction Hours

hr/day =	10	(8am - 6pm M-F)
days/yr =	260	
hours/year =	2600	

PM2.5 Fugitive Dust Construction Emissions for Modeling - With Mitigation

Construction Year	Activity	Area Source	PM2.5 Emissions (ton/year)	PM2.5 Emissions (lb/yr)	PM2.5 Emissions (lb/hr)	PM2.5 Emissions (g/s)	Modeled Area (m^2)	PM2.5 Emission Rate $g/s/m^2$
2026-2027	Construction	CON_FUG	0.0344	68.7	0.02643	3.33E-03	27,436	1.21E-07
Total			***0.0344***	***68.7***	***0.0264***	***0.0033***		

Construction Hours

hr/day =	10	(8am - 6pm M-F)
days/yr =	260	
hours/year =	2600	

14789 Oka Road, Los Gatos, CA
Construction Health Impact Summary

Maximum Impacts at MEI Location - Without Mitigation

Emissions Year	Maximum Concentrations		Cancer Risk (per million)	Hazard Index	Maximum Annual PM2.5 Concentration
	Exhaust PM10/DPM ($\mu g/m^3$)	Fugitive PM2.5 ($\mu g/m^3$)	Infant/Child	(-)	($\mu g/m^3$)
2026 - 2027	0.0768	0.0738	13.66	0.02	0.15
Total	-	-	**13.66**		-
Maximum	0.0768	0.0738	**-**	**0.02**	**0.15**

Maximum Impacts at MEI Location - With Mitigation

Emissions Year	Maximum Concentrations		Cancer Risk (per million)	Hazard Index	Maximum Annual PM2.5 Concentration
	Exhaust PM10/DPM ($\mu g/m^3$)	Fugitive PM2.5 ($\mu g/m^3$)	Infant/Child	(-)	($\mu g/m^3$)
2026 - 2027	0.0121	0.0738	2.15	0.002	0.09
Total	-	-	**2.15**	-	-
Maximum	0.0121	0.0738	**-**	**0.002**	**0.09**

- Tier 4 Final Engines and basic BMPs Mitigation.

Maximum Impacts at Yavneh Day School

Construction Year	Unmitigated Emissions				
	Maximum Concentrations		Child Cancer Risk (per million)	Hazard Index	Maximum Annual PM2.5 Concentration
	Exhaust PM10/DPM ($\mu g/m^3$)	Fugitive PM2.5 ($\mu g/m^3$)		(-)	($\mu g/m^3$)
2026-2027	0.0396	0.0086	2.24	0.01	0.05
Total	-	-	**2.24**	-	-
Maximum	0.0396	0.0086	**-**	**0.01**	**0.05**

14789 Oka Road, Los Gatos, CA - Construction Impacts - Without Mitigation
Maximum DPM Cancer Risk and PM2.5 Calculations From Construction
Impacts at Off-Site MEI Location - 1.5 meter receptor height

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air $(\mu g/m^3)$
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

	Infant/Child			Adult
Age -->	**3rd Trimester**	**0 - 2**	**2 - 16**	**16 - 30**
Parameter				
ASF =	10	10	3	1
CPF =	1.10E+00	1.10E+00	1.10E+00	1.10E+00
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

			Infant/Child - Exposure Information				Adult - Exposure Information				Maximum		
				DPM Conc (ug/m3)	Age			Modeled DPM Conc (ug/m3)	Age				
Exposure Year	**Exposure Duration (years)**	**Age**	**Year**	**Annual**	**Sensitivity Factor**	**Infant/Child Cancer Risk (per million)**	**Year**	**Annual**	**Sensitivity Factor**	**Adult Cancer Risk (per million)**	**Hazard Index**	**Fugitive PM2.5**	**Total PM2.5**
0	0.25	-0.25 - 0*	2026 - 2027	0.0768	10	1.04	2026 - 2027	0.0768	-	-			
1	1	0 - 1	2026 - 2027	0.0768	10	12.61	2026 - 2027	0.0768	1	0.22	0.02	0.07	0.15
2	1	1 - 2		0.0000	10	0.00		0.0000	1	0.00			
3	1	2 - 3		0.0000	3	0.00		0.0000	1	0.00			
4	1	3 - 4		0.0000	3	0.00		0.0000	1	0.00			
5	1	4 - 5		0.0000	3	0.00		0.0000	1	0.00			
6	1	5 - 6		0.0000	3	0.00		0.0000	1	0.00			
7	1	6 - 7		0.0000	3	0.00		0.0000	1	0.00			
8	1	7 - 8		0.0000	3	0.00		0.0000	1	0.00			
9	1	8 - 9		0.0000	3	0.00		0.0000	1	0.00			
10	1	9 - 10		0.0000	3	0.00		0.0000	1	0.00			
11	1	10 - 11		0.0000	3	0.00		0.0000	1	0.00			
12	1	11 - 12		0.0000	3	0.00		0.0000	1	0.00			
13	1	12 - 13		0.0000	3	0.00		0.0000	1	0.00			
14	1	13 - 14		0.0000	3	0.00		0.0000	1	0.00			
15	1	14 - 15		0.0000	3	0.00		0.0000	1	0.00			
16	1	15 - 16		0.0000	3	0.00		0.0000	1	0.00			
17	1	16-17		0.0000	1	0.00		0.0000	1	0.00			
18	1	17-18		0.0000	1	0.00		0.0000	1	0.00			
19	1	18-19		0.0000	1	0.00		0.0000	1	0.00			
20	1	19-20		0.0000	1	0.00		0.0000	1	0.00			
21	1	20-21		0.0000	1	0.00		0.0000	1	0.00			
22	1	21-22		0.0000	1	0.00		0.0000	1	0.00			
23	1	22-23		0.0000	1	0.00		0.0000	1	0.00			
24	1	23-24		0.0000	1	0.00		0.0000	1	0.00			
25	1	24-25		0.0000	1	0.00		0.0000	1	0.00			
26	1	25-26		0.0000	1	0.00		0.0000	1	0.00			
27	1	26-27		0.0000	1	0.00		0.0000	1	0.00			
28	1	27-28		0.0000	1	0.00		0.0000	1	0.00			
29	1	28-29		0.0000	1	0.00		0.0000	1	0.00			
30	1	29-30		0.0000	1	0.00		0.0000	1	0.00			
Total Increased Cancer Risk						**13.66**				**0.22**			

* Third trimester of pregnancy

14789 Oka Road, Los Gatos, CA - Construction Impacts - Without Mitigation
Maximum DPM Cancer Risk and PM2.5 Calculations From Construction
Impacts at Off-Site MEI Location - 4.5 meter receptor height

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air ($\mu g/m^3$)
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

	Infant/Child			Adult
Age -->	**3rd Trimester**	**0 - 2**	**2 - 16**	**16 - 30**
Parameter				
ASF =	10	10	3	1
CPF =	1.10E+00	1.10E+00	1.10E+00	1.10E+00
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

			Infant/Child - Exposure Information				Adult - Exposure Information					Maximum	
				DPM Conc (ug/m3)	Age	Infant/Child		Modeled DPM Conc (ug/m3)	Age	Adult			
Exposure Year	**Exposure Duration (years)**	**Age**	**Year**	**Annual**	**Sensitivity Factor**	**Cancer Risk (per million)**	**Year**	**Annual**	**Sensitivity Factor**	**Cancer Risk (per million)**	**Hazard Index**	**Fugitive PM2.5**	**Total PM2.5**
0	0.25	-0.25 - 0*	2026 - 2027	0.0396	10	0.54	2026 - 2027	0.0396	-	-			
1	1	0 - 1	2026 - 2027	0.0396	10	6.51	2026 - 2027	0.0396	1	0.11	0.01	0.02	0.06
2	1	1 - 2		0.0000	10	0.00		0.0000	1	0.00			
3	1	2 - 3		0.0000	3	0.00		0.0000	1	0.00			
4	1	3 - 4		0.0000	3	0.00		0.0000	1	0.00			
5	1	4 - 5		0.0000	3	0.00		0.0000	1	0.00			
6	1	5 - 6		0.0000	3	0.00		0.0000	1	0.00			
7	1	6 - 7		0.0000	3	0.00		0.0000	1	0.00			
8	1	7 - 8		0.0000	3	0.00		0.0000	1	0.00			
9	1	8 - 9		0.0000	3	0.00		0.0000	1	0.00			
10	1	9 - 10		0.0000	3	0.00		0.0000	1	0.00			
11	1	10 - 11		0.0000	3	0.00		0.0000	1	0.00			
12	1	11 - 12		0.0000	3	0.00		0.0000	1	0.00			
13	1	12 - 13		0.0000	3	0.00		0.0000	1	0.00			
14	1	13 - 14		0.0000	3	0.00		0.0000	1	0.00			
15	1	14 - 15		0.0000	3	0.00		0.0000	1	0.00			
16	1	15 - 16		0.0000	3	0.00		0.0000	1	0.00			
17	1	16-17		0.0000	1	0.00		0.0000	1	0.00			
18	1	17-18		0.0000	1	0.00		0.0000	1	0.00			
19	1	18-19		0.0000	1	0.00		0.0000	1	0.00			
20	1	19-20		0.0000	1	0.00		0.0000	1	0.00			
21	1	20-21		0.0000	1	0.00		0.0000	1	0.00			
22	1	21-22		0.0000	1	0.00		0.0000	1	0.00			
23	1	22-23		0.0000	1	0.00		0.0000	1	0.00			
24	1	23-24		0.0000	1	0.00		0.0000	1	0.00			
25	1	24-25		0.0000	1	0.00		0.0000	1	0.00			
26	1	25-26		0.0000	1	0.00		0.0000	1	0.00			
27	1	26-27		0.0000	1	0.00		0.0000	1	0.00			
28	1	27-28		0.0000	1	0.00		0.0000	1	0.00			
29	1	28-29		0.0000	1	0.00		0.0000	1	0.00			
30	1	29-30		0.0000	1	0.00		0.0000	1	0.00			
Total Increased Cancer Risk						**7.05**				**0.11**			

* Third trimester of pregnancy

14789 Oka Road, Los Gatos, CA - Construction Impacts - Without Mitigation
Maximum DPM Cancer Risk and PM2.5 Calculations From Construction Impacts at Yavneh Day School - 1 meter - Child Exposure

Student Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)

Inhalation Dose = C_{air} x SCAF x 8-Hr BR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air ($\mu g/m^3$)
SCAF = School Child Adjustment Factor (unitless) for source operation and exposures different than 8 hours/day
= (24/SHR) x (7days/SDay) x (SCHR/8 hrs)
SHR = Hours/day of emission source operation
SDay = Number of days per week of source operation
SCHR = School operation hours while emission source in operation
8-Hr BR = Eight-hour breathing rate (L/kg body weight-per 8 hrs)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

	Infant	Child
Age -->	**0 - <2**	**2 - <16**
Parameter		
ASF =	10	3
DPM CPF =	1.10E+00	1.10E+00
8-Hr BR* =	1200	520
SCHR =	8	8
SHR =	10	10
SDay =	5	5
A =	1	1
EF =	250	250
AT =	70	70
SCAF =	3.36	3.36

* 95th percentile 8-hr breathing rates for moderate intensity activities

Construction Cancer Risk by Year - Maximum Preschool Impact Receptor Location

Exposure Year	Exposure Duration (years)	Age	Child - Exposure Information: DPM Conc (ug/m3) Year	DPM Conc (ug/m3) Annual	Age* Sensitivity Factor	Child Cancer Risk (per million)	Maximum: Hazard Index	Fugitive PM2.5	Total PM2.5
1	1	5 - 6	2026-2027	0.0182	3	1.03	0.004	0.01	0.03
Total Increased Cancer Risk						**1.03**			

* Children assumed to be 5 years or older with 1 year of exposure to construction emissions.

14789 Oka Road, Los Gatos, CA - Construction Impacts - Without Mitigation
Maximum DPM Cancer Risk and PM2.5 Calculations From Construction Impacts at Yavneh Day School - 4 meter - Child Exposure

Student Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)

Inhalation Dose = C_{air} x SCAF x 8-Hr BR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air ($\mu g/m^3$)
SCAF = School Child Adjustment Factor (unitless) for source operation and exposures different than 8 hours/day
= (24/SHR) x (7days/SDay) x (SCHR/8 hrs)
SHR = Hours/day of emission source operation
SDay = Number of days per week of source operation
SCHR = School operation hours while emission source in operation
8-Hr BR = Eight-hour breathing rate (L/kg body weight-per 8 hrs)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

	Infant	Child
Age -->	**0 - <2**	**2 - <16**
Parameter		
ASF =	10	3
DPM CPF =	1.10E+00	1.10E+00
8-Hr BR* =	1200	520
SCHR =	8	8
SHR =	10	10
SDay =	5	5
A =	1	1
EF =	250	250
AT =	70	70
SCAF =	3.36	3.36

* 95th percentile 8-hr breathing rates for moderate intensity activities

Construction Cancer Risk by Year - Maximum Preschool Impact Receptor Location

Exposure Year	Exposure Duration (years)	Age	Child - Exposure Information: DPM Conc (ug/m3) Year	DPM Conc (ug/m3) Annual	Age* Sensitivity Factor	Child Cancer Risk (per million)	Maximum: Hazard Index	Fugitive PM2.5	Total PM2.5
1	1	5 - 6	2026-2027	0.0396	3	2.24	0.008	0.01	0.05
Total Increased Cancer Risk						**2.24**			

* Children assumed to be 5 years or older with 1 year of exposure to construction emissions.

14789 Oka Road, Los Gatos, CA - Construction Impacts - With Mitigation
Maximum DPM Cancer Risk and PM2.5 Calculations From Construction
Impacts at Off-Site MEI Location - 1.5 meter receptor height

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air ($\mu g/m^3$)
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

	Infant/Child			Adult
Age -->	3rd Trimester	0 - 2	2 - 16	16 - 30
Parameter				
ASF =	10	10	3	1
CPF =	1.10E+00	1.10E+00	1.10E+00	1.10E+00
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

			Infant/Child - Exposure Information				Adult - Exposure Information				Maximum		
			DPM Conc (ug/m3)		Age	Infant/Child	Modeled DPM Conc (ug/m3)		Age	Adult			
Exposure Year	Exposure Duration (years)	Age	Year	Annual	Sensitivity Factor	Cancer Risk (per million)	Year	Annual	Sensitivity Factor	Cancer Risk (per million)	Hazard Index	Fugitive PM2.5	Total PM2.5
0	0.25	-0.25 - 0*	2026 - 2027	0.0121	10	0.16	2026 - 2027	0.0121	-	-			
1	1	0 - 1	2026 - 2027	0.0121	10	1.99	2026 - 2027	0.0121	1	0.03	0.002	0.07	0.09
2	1	1 - 2		0.0000	10	0.00		0.0000	1	0.00			
3	1	2 - 3		0.0000	3	0.00		0.0000	1	0.00			
4	1	3 - 4		0.0000	3	0.00		0.0000	1	0.00			
5	1	4 - 5		0.0000	3	0.00		0.0000	1	0.00			
6	1	5 - 6		0.0000	3	0.00		0.0000	1	0.00			
7	1	6 - 7		0.0000	3	0.00		0.0000	1	0.00			
8	1	7 - 8		0.0000	3	0.00		0.0000	1	0.00			
9	1	8 - 9		0.0000	3	0.00		0.0000	1	0.00			
10	1	9 - 10		0.0000	3	0.00		0.0000	1	0.00			
11	1	10 - 11		0.0000	3	0.00		0.0000	1	0.00			
12	1	11 - 12		0.0000	3	0.00		0.0000	1	0.00			
13	1	12 - 13		0.0000	3	0.00		0.0000	1	0.00			
14	1	13 - 14		0.0000	3	0.00		0.0000	1	0.00			
15	1	14 - 15		0.0000	3	0.00		0.0000	1	0.00			
16	1	15 - 16		0.0000	3	0.00		0.0000	1	0.00			
17	1	16-17		0.0000	1	0.00		0.0000	1	0.00			
18	1	17-18		0.0000	1	0.00		0.0000	1	0.00			
19	1	18-19		0.0000	1	0.00		0.0000	1	0.00			
20	1	19-20		0.0000	1	0.00		0.0000	1	0.00			
21	1	20-21		0.0000	1	0.00		0.0000	1	0.00			
22	1	21-22		0.0000	1	0.00		0.0000	1	0.00			
23	1	22-23		0.0000	1	0.00		0.0000	1	0.00			
24	1	23-24		0.0000	1	0.00		0.0000	1	0.00			
25	1	24-25		0.0000	1	0.00		0.0000	1	0.00			
26	1	25-26		0.0000	1	0.00		0.0000	1	0.00			
27	1	26-27		0.0000	1	0.00		0.0000	1	0.00			
28	1	27-28		0.0000	1	0.00		0.0000	1	0.00			
29	1	28-29		0.0000	1	0.00		0.0000	1	0.00			
30	1	29-30		0.0000	1	0.00		0.0000	1	0.00			
Total Increased Cancer Risk						**2.15**				**0.03**			

* Third trimester of pregnancy

Attachment 3: Cumulative Screening, Dispersion Modeling Inputs, and Health Risk Calculations from Existing TAC Sources

CT-EMFAC2021 Emissions Factors for Santa Clara County 2026 – SR-85

File Name: SR-85 Oka Rd - Santa Clara (SF) - 2026 - Annual.EF
CT-EMFAC2021 Version: 1.0.2.0
Run Date: 1/8/2025 15:10
Area: Santa Clara (SF)
Analysis Year: 2026
Season: Annual

Vehicle Category	VMT Fraction Across Category	Diesel VMT Fraction Within Category	Gas VMT Fraction Within Category
Truck 1	0.003	0.416	0.563
Truck 2	0	0.904	0.045
Non-Truck	0.997	0.007	0.914

Road Type: Major/Collector
Silt Loading Factor: CARB 0.015 g/m2
Precipitation Correction: CARB P = 63 days N = 365 days

Fleet Average Running Exhaust Emission Factors (grams/veh-mile)

Pollutant Name	<= 5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph	50 mph	55 mph	60 mph	65 mph	70 mph	75 mph
PM2.5	0.007767	0.004953	0.003319	0.002342	0.001746	0.001373	0.001138	0.000994	0.000916	0.00089	0.000912	0.000982	0.00111	0.001202	0.001202
TOG	0.116173	0.074556	0.050177	0.035645	0.026807	0.021251	0.017721	0.015527	0.014286	0.013807	0.014008	0.014929	0.01672	0.018032	0.018032
Diesel PM	0.000302	0.000251	0.000192	0.000149	0.000124	0.000108	0.000097	0.000092	0.000091	0.000094	0.000102	0.000113	0.000125	0.000128	0.000128

Fleet Average Running Loss Emission Factors (grams/veh-hour)

Pollutant Name	Emission Factor
TOG	0.98383

Fleet Average Tire Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.002008

Fleet Average Brake Wear Factors (grams/veh-mile)

Pollutant Name	<= 5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph	50 mph	55 mph	60 mph	65 mph	70 mph	75 mph
PM2.5	0.002463	0.003024	0.003586	0.004146	0.004472	0.004582	0.00469	0.00424	0.003228	0.002215	0.001553	0.001241	0.000928	0.000928	0.000928

Fleet Average Road Dust Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.006499

END

SR-85 2026 Traffic Emissions and Health Risk Calculations

Analysis Year = ***2026***

Vehicle Type	2022 Caltrans Vehicles (veh/day)	2026 Vehicles (veh/day)
Total	**103,000**	**107,120**

Increase From 2022	1.04
Vehicles/Direction	**53,560**
Avg Vehicles/Hour/Direction	2,232

Traffic Data Year = ***2022***

2022 Caltrans Traffic and Truck AADT	AADT Total	Total Truck	Trucks by Axle 2	3	4	5
SR-85 at Jct SR-17	103,000	258	244	8	6	0
			94.66%	3.09%	2.25%	0.00%
Percent of Total Vehicles		0.25%	0.24%	0.01%	0.01%	0.00%

Traffic Increase per Year (%) = *1.00%*

258	Trucks	100%
0.2%	MDT	
0.0%	HDT	
0.3%	Total	
99.8%	Other	

14789 Oka Road, Los Gatos, CA - Off-Site Residential
Cumulative Traffic - SR-85
DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions
Year = 2026

											Line Area					
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
DPM_NB_85	SR-85 Northbound	NB	3	617.9	0.38	17.0	55.7	3.4	65	53,560	10,487	112,886	2.837E-09	2.092E-09	6.8	3.16
DPM_SB_85	SR-85 Southbound	SB	3	671.4	0.42	17.0	55.7	3.4	65	53,560	11,396	122,661	2.837E-09	2.092E-09	6.8	3.16
									Total	107,120						

Emission Factors - DPM

Speed Category	1	2	3	4
Travel Speed (mph)	65	50	40	
Emissions per Vehicle (g/VMT)	0.00013	0.00009	0.00009	

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and DPM Emissions - DPM_NB_85

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.93%	500	6.66E-06	9	6.18%	3310	3.32E-05	17	5.91%	3164	4.22E-05
2	0.76%	407	5.43E-06	10	6.64%	3554	3.56E-05	18	6.16%	3299	4.40E-05
3	0.73%	390	5.20E-06	11	6.62%	3544	4.73E-05	19	5.08%	2722	3.63E-05
4	0.88%	472	6.29E-06	12	6.10%	3265	4.35E-05	20	3.68%	1969	2.62E-05
5	1.55%	830	1.11E-05	13	5.81%	3112	4.15E-05	21	2.97%	1588	2.12E-05
6	3.82%	2046	2.73E-05	14	5.55%	2974	3.96E-05	22	2.48%	1330	1.77E-05
7	6.58%	3526	4.70E-05	15	5.65%	3027	4.04E-05	23	1.92%	1028	1.37E-05
8	6.77%	3627	3.64E-05	16	5.96%	3194	4.26E-05	24	1.27%	680	9.06E-06
								Total		53,560	

2026 Hourly Traffic Volumes Per Direction and DPM Emissions - DPM_SB_85

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.16%	620	8.99E-06	9	4.62%	2474	3.58E-05	17	7.50%	4015	4.28E-05
2	0.77%	411	5.95E-06	10	4.53%	2424	3.51E-05	18	6.97%	3732	3.98E-05
3	0.69%	371	5.38E-06	11	4.85%	2596	3.76E-05	19	6.91%	3702	3.95E-05
4	0.64%	344	4.98E-06	12	5.44%	2913	4.22E-05	20	5.92%	3171	4.59E-05
5	0.66%	356	5.16E-06	13	6.37%	3412	4.94E-05	21	4.70%	2516	3.64E-05
6	0.91%	490	7.10E-06	14	7.10%	3802	5.51E-05	22	3.78%	2026	2.93E-05
7	1.61%	862	1.25E-05	15	8.59%	4603	6.67E-05	23	2.89%	1550	2.24E-05
8	3.34%	1790	2.59E-05	16	8.13%	4356	4.64E-05	24	1.91%	1024	1.48E-05
								Total		53,560	

14789 Oka Road, Los Gatos, CA - Off-Site Residential
Cumulative Traffic - SR-85
PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions
Year = 2026

											Line Area					
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
PM25_NB_85	SR-85 Northbound	NB	3	617.9	0.38	17.0	56	1.3	65	53,560	10,487	112,886	2.519E-08	1.857E-08	2.6	1.21
PM25_SB_85	SR-85 Southbound	SB	3	671.4	0.42	17.0	56	1.3	65	53,560	11,396	122,661	2.519E-08	1.857E-08	2.6	1.21
									Total	107,120						

Emission Factors - PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	65	50	40	
Emissions per Vehicle (g/VMT)	0.001110	0.000890	0.000994	

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and PM2.5 Emissions - PM25_NB_85

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.93%	500	5.92E-05	9	6.18%	3310	3.14E-04	17	5.91%	3164	3.75E-04
2	0.76%	407	4.82E-05	10	6.64%	3554	3.37E-04	18	6.16%	3299	3.91E-04
3	0.73%	390	4.62E-05	11	6.62%	3544	4.20E-04	19	5.08%	2722	3.22E-04
4	0.88%	472	5.59E-05	12	6.10%	3265	3.87E-04	20	3.68%	1969	2.33E-04
5	1.55%	830	9.83E-05	13	5.81%	3112	3.68E-04	21	2.97%	1588	1.88E-04
6	3.82%	2046	2.42E-04	14	5.55%	2974	3.52E-04	22	2.48%	1330	1.57E-04
7	6.58%	3526	4.17E-04	15	5.65%	3027	3.58E-04	23	1.92%	1028	1.22E-04
8	6.77%	3627	3.44E-04	16	5.96%	3194	3.78E-04	24	1.27%	680	8.05E-05
								Total		53,560	

2026 Hourly Traffic Volumes Per Direction and PM2.5 Emissions - PM25_SB_85

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.16%	620	7.98E-05	9	4.62%	2474	3.18E-04	17	7.50%	4015	4.62E-04
2	0.77%	411	5.29E-05	10	4.53%	2424	3.12E-04	18	6.97%	3732	4.30E-04
3	0.69%	371	4.78E-05	11	4.85%	2596	3.34E-04	19	6.91%	3702	4.26E-04
4	0.64%	344	4.42E-05	12	5.44%	2913	3.75E-04	20	5.92%	3171	4.08E-04
5	0.66%	356	4.58E-05	13	6.37%	3412	4.39E-04	21	4.70%	2516	3.24E-04
6	0.91%	490	6.30E-05	14	7.10%	3802	4.89E-04	22	3.78%	2026	2.61E-04
7	1.61%	862	1.11E-04	15	8.59%	4603	5.92E-04	23	2.89%	1550	1.99E-04
8	3.34%	1790	2.30E-04	16	8.13%	4356	5.02E-04	24	1.91%	1024	1.32E-04
								Total		53,560	

14789 Oka Road, Los Gatos, CA - Off-Site Residential
Cumulative Traffic - SR-85
TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions
Year = 2026

											Line Area					
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height	(Sigma z) Initial Vertical Dimension
TEXH_NB_85	SR-85 Northbound	NB	3	617.9	0.38	17.0	56	1.3	65	53,560	10,487	112,886	3.795E-07	2.798E-07	2.6	1.21
TEXH_SB_85	SR-85 Southbound	SB	3	671.4	0.42	17.0	56	1.3	65	53,560	11,396	122,661	3.795E-07	2.798E-07	2.6	1.21
									Total	107,120						

Emission Factors - TOG Exhaust

Speed Category	1	2	3	4
Travel Speed (mph)	65	50	40	
Emissions per Vehicle (g/VMT)	0.01672	0.01381	########	

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH_NB_85

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.93%	500	8.91E-04	9	6.18%	3310	4.87E-03	17	5.91%	3164	5.64E-03
2	0.76%	407	7.26E-04	10	6.64%	3554	5.23E-03	18	6.16%	3299	5.88E-03
3	0.73%	390	6.96E-04	11	6.62%	3544	6.32E-03	19	5.08%	2722	4.85E-03
4	0.88%	472	8.42E-04	12	6.10%	3265	5.82E-03	20	3.68%	1969	3.51E-03
5	1.55%	830	1.48E-03	13	5.81%	3112	5.55E-03	21	2.97%	1588	2.83E-03
6	3.82%	2046	3.65E-03	14	5.55%	2974	5.30E-03	22	2.48%	1330	2.37E-03
7	6.58%	3526	6.29E-03	15	5.65%	3027	5.40E-03	23	1.92%	1028	1.83E-03
8	6.77%	3627	5.34E-03	16	5.96%	3194	5.69E-03	24	1.27%	680	1.21E-03
								Total		53,560	

2026 Hourly Traffic Volumes Per Direction and TOG Exhaust Emissions - TEXH_SB_85

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.16%	620	1.20E-03	9	4.62%	2474	4.79E-03	17	7.50%	4015	7.22E-03
2	0.77%	411	7.96E-04	10	4.53%	2424	4.70E-03	18	6.97%	3732	6.71E-03
3	0.69%	371	7.20E-04	11	4.85%	2596	5.03E-03	19	6.91%	3702	6.66E-03
4	0.64%	344	6.66E-04	12	5.44%	2913	5.64E-03	20	5.92%	3171	6.14E-03
5	0.66%	356	6.90E-04	13	6.37%	3412	6.61E-03	21	4.70%	2516	4.88E-03
6	0.91%	490	9.49E-04	14	7.10%	3802	7.37E-03	22	3.78%	2026	3.92E-03
7	1.61%	862	1.67E-03	15	8.59%	4603	8.92E-03	23	2.89%	1550	3.00E-03
8	3.34%	1790	3.47E-03	16	8.13%	4356	7.84E-03	24	1.91%	1024	1.98E-03
								Total		53,560	

14789 Oka Road, Los Gatos, CA - Off-Site Residential
Cumulative Traffic - SR-85
TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions
Year = 2026

											Line Area					
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height	(Sigma z) Initial Vertical Dimension
TEVAP_NB_85	SR-85 Northbound	NB	3	617.9	0.38	17.0	56	1.3	65	53,560	10,487	112,886	3.435E-07	2.533E-07	2.6	1.21
TEVAP_SB_85	SR-85 Southbound	SB	3	671.4	0.42	17.0	56	1.3	65	53,560	11,396	122,661	3.435E-07	2.533E-07	2.6	1.21
									Total	107,120						

Emission Factors - PM2.5 - Evaporative TOG

Speed Category	1	2	3	4
Travel Speed (mph)	65	50	40	
Emissions per Vehicle per Hour (g/hour)	0.98383	0.98383	########	
Emissions per Vehicle per Mile (g/VMT)	0.01514	0.01968	########	

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP_NB_85

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.93%	500	8.07E-04	9	6.18%	3310	6.95E-03	17	5.91%	3164	5.11E-03
2	0.76%	407	6.57E-04	10	6.64%	3554	7.46E-03	18	6.16%	3299	5.33E-03
3	0.73%	390	6.30E-04	11	6.62%	3544	5.72E-03	19	5.08%	2722	4.39E-03
4	0.88%	472	7.62E-04	12	6.10%	3265	5.27E-03	20	3.68%	1969	3.18E-03
5	1.55%	830	1.34E-03	13	5.81%	3112	5.02E-03	21	2.97%	1588	2.56E-03
6	3.82%	2046	3.30E-03	14	5.55%	2974	4.80E-03	22	2.48%	1330	2.15E-03
7	6.58%	3526	5.69E-03	15	5.65%	3027	4.89E-03	23	1.92%	1028	1.66E-03
8	6.77%	3627	7.61E-03	16	5.96%	3194	5.16E-03	24	1.27%	680	1.10E-03
								Total		53,560	

2026 Hourly Traffic Volumes Per Direction and TOG Evaporative Emissions - TEVAP_SB_85

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.16%	620	1.09E-03	9	4.62%	2474	4.34E-03	17	7.50%	4015	1.14E-02
2	0.77%	411	7.21E-04	10	4.53%	2424	4.25E-03	18	6.97%	3732	1.06E-02
3	0.69%	371	6.51E-04	11	4.85%	2596	4.55E-03	19	6.91%	3702	1.06E-02
4	0.64%	344	6.03E-04	12	5.44%	2913	5.11E-03	20	5.92%	3171	5.56E-03
5	0.66%	356	6.25E-04	13	6.37%	3412	5.99E-03	21	4.70%	2516	4.41E-03
6	0.91%	490	8.59E-04	14	7.10%	3802	6.67E-03	22	3.78%	2026	3.55E-03
7	1.61%	862	1.51E-03	15	8.59%	4603	8.07E-03	23	2.89%	1550	2.72E-03
8	3.34%	1790	3.14E-03	16	8.13%	4356	1.24E-02	24	1.91%	1024	1.80E-03
								Total		53,560	

14789 Oka Road, Los Gatos, CA - Off-Site Residential
Cumulative Traffic - SR-85
Fugitive Road PM2.5 Modeling - Roadway Links, Traffic Volumes, and Fugitive Road PM2.5 Emissions
Year = 2026

											Line Area					
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
FUG_NB_85	SR-85 Northbound	NB	3	617.9	0.38	17.0	56	1.3	65	53,560	10,487	112,886	2.141E-07	1.579E-07	2.6	1.21
FUG_SB_85	SR-85 Southbound	SB	3	671.4	0.42	17.0	56	1.3	65	53,560	11,396	122,661	2.141E-07	1.579E-07	2.6	1.21
									Total	107,120						

Emission Factors - Fugitive PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	65	50	40	
Tire Wear - Emissions per Vehicle (g/VMT)	0.00201	0.00201	########	
Brake Wear - Emissions per Vehicle (g/VMT)	0.00093	0.00222	########	
Road Dust - Emissions per Vehicle (g/VMT)	0.00650	0.00650	########	
Total Fugitive PM2.5 - Emissions per Vehicle (g/VMT)	0.00944	0.01072	########	

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and Fugitive PM2.5 Emissions - FUG_NB_85

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	0.93%	500	5.03E-04	9	6.18%	3310	3.79E-03	17	5.91%	3164	3.18E-03
2	0.76%	407	4.10E-04	10	6.64%	3554	4.06E-03	18	6.16%	3299	3.32E-03
3	0.73%	390	3.93E-04	11	6.62%	3544	3.57E-03	19	5.08%	2722	2.74E-03
4	0.88%	472	4.75E-04	12	6.10%	3265	3.29E-03	20	3.68%	1969	1.98E-03
5	1.55%	830	8.35E-04	13	5.81%	3112	3.13E-03	21	2.97%	1588	1.60E-03
6	3.82%	2046	2.06E-03	14	5.55%	2974	2.99E-03	22	2.48%	1330	1.34E-03
7	6.58%	3526	3.55E-03	15	5.65%	3027	3.05E-03	23	1.92%	1028	1.03E-03
8	6.77%	3627	4.15E-03	16	5.96%	3194	3.21E-03	24	1.27%	680	6.84E-04
								Total		53,560	

2026 Hourly Traffic Volumes Per Direction and Fugitive PM2.5 Emissions - FUG_SB_85

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.16%	620	6.78E-04	9	4.62%	2474	2.71E-03	17	7.50%	4015	5.93E-03
2	0.77%	411	4.49E-04	10	4.53%	2424	2.65E-03	18	6.97%	3732	5.51E-03
3	0.69%	371	4.06E-04	11	4.85%	2596	2.84E-03	19	6.91%	3702	5.47E-03
4	0.64%	344	3.76E-04	12	5.44%	2913	3.18E-03	20	5.92%	3171	3.47E-03
5	0.66%	356	3.89E-04	13	6.37%	3412	3.73E-03	21	4.70%	2516	2.75E-03
6	0.91%	490	5.36E-04	14	7.10%	3802	4.16E-03	22	3.78%	2026	2.21E-03
7	1.61%	862	9.42E-04	15	8.59%	4603	5.03E-03	23	2.89%	1550	1.69E-03
8	3.34%	1790	1.96E-03	16	8.13%	4356	6.44E-03	24	1.91%	1024	1.12E-03
								Total		53,560	

14789 Oka Road, Los Gatos, CA - SR-85 Traffic - TACs & PM2.5
AERMOD Risk Modeling Parameters and Maximum Concentrations
at Project MEI Receptor, 1.5m receptor height

Emission Year	2026
Receptor Information	Project MEI receptor
Number of Receptors	1
Receptor Height	1.5 meters
Receptor Distances	At Project MEI location
Meteorological Conditions	
BAQMD San Jose Airport Met Data	2013-2017
Land Use Classification	Urban
Wind Speed	Variable
Wind Direction	Variable

Project MEI Cancer Risk Maximum Concentrations

Meteorological Data Years	Concentration (µg/m3)		
	DPM	Exhaust TOG	Evaporative TOG
2013-2017	0.0002	0.0328	0.0332

Project MEI PM2.5 Maximum Concentrations

Meteorological Data Years	PM2.5 Concentration (µg/m3)		
	Total PM2.5	Fugitive PM2.5	Vehicle PM2.5
2013-2017	0.0220	0.0199	0.0022

14789 Oka Road, Los Gatos, CA - SR-85 Cancer Risk & PM2.5 Impacts at Project MEIs - 1.5 meter (1st floor) receptor height 30 Year Residential Exposure

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air $(\mu g/m^3)$
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

Values

	Infant/Child			Adult
Age -->	3rd Trimester	0 - 2	2 - 16	16 - 30
Parameter				
ASF =	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

Maximum - Exposure Information					Concentration (ug/m3)			Cancer Risk (per million)			
Exposure Year	Exposure Duration (years)	Age	Year	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	TOTAL
0	0.25	-0.25 - 0*	2026	10	0.0002	0.0328	0.0332	0.003	0.003	0.0002	0.01
1	1	0 - 1	2026	10	0.0002	0.0328	0.0332	0.038	0.031	0.0018	0.07
2	1	1 - 2	2027	10	0.0002	0.0328	0.0332	0.038	0.031	0.0018	0.07
3	1	2 - 3	2028	3	0.0002	0.0328	0.0332	0.006	0.005	0.0003	0.01
4	1	3 - 4	2029	3	0.0002	0.0328	0.0332	0.006	0.005	0.0003	0.01
5	1	4 - 5	2030	3	0.0002	0.0328	0.0332	0.006	0.005	0.0003	0.01
6	1	5 - 6	2031	3	0.0002	0.0328	0.0332	0.006	0.005	0.0003	0.01
7	1	6 - 7	2032	3	0.0002	0.0328	0.0332	0.006	0.005	0.0003	0.01
8	1	7 - 8	2033	3	0.0002	0.0328	0.0332	0.006	0.005	0.0003	0.01
9	1	8 - 9	2034	3	0.0002	0.0328	0.0332	0.006	0.005	0.0003	0.01
10	1	9 - 10	2035	3	0.0002	0.0328	0.0332	0.006	0.005	0.0003	0.01
11	1	10 - 11	2036	3	0.0002	0.0328	0.0332	0.006	0.005	0.0003	0.01
12	1	11 - 12	2037	3	0.0002	0.0328	0.0332	0.006	0.005	0.0003	0.01
13	1	12 - 13	2038	3	0.0002	0.0328	0.0332	0.006	0.005	0.0003	0.01
14	1	13 - 14	2039	3	0.0002	0.0328	0.0332	0.006	0.005	0.0003	0.01
15	1	14 - 15	2040	3	0.0002	0.0328	0.0332	0.006	0.005	0.0003	0.01
16	1	15 - 16	2041	3	0.0002	0.0328	0.0332	0.006	0.005	0.0003	0.01
17	1	16-17	2042	1	0.0002	0.0328	0.0332	0.001	0.001	0.0000	0.00
18	1	17-18	2043	1	0.0002	0.0328	0.0332	0.001	0.001	0.0000	0.00
19	1	18-19	2044	1	0.0002	0.0328	0.0332	0.001	0.001	0.0000	0.00
20	1	19-20	2045	1	0.0002	0.0328	0.0332	0.001	0.001	0.0000	0.00
21	1	20-21	2046	1	0.0002	0.0328	0.0332	0.001	0.001	0.0000	0.00
22	1	21-22	2047	1	0.0002	0.0328	0.0332	0.001	0.001	0.0000	0.00
23	1	22-23	2048	1	0.0002	0.0328	0.0332	0.001	0.001	0.0000	0.00
24	1	23-24	2049	1	0.0002	0.0328	0.0332	0.001	0.001	0.0000	0.00
25	1	24-25	2050	1	0.0002	0.0328	0.0332	0.001	0.001	0.0000	0.00
26	1	25-26	2051	1	0.0002	0.0328	0.0332	0.001	0.001	0.0000	0.00
27	1	26-27	2052	1	0.0002	0.0328	0.0332	0.001	0.001	0.0000	0.00
28	1	27-28	2053	1	0.0002	0.0328	0.0332	0.001	0.001	0.0000	0.00
29	1	28-29	2054	1	0.0002	0.0328	0.0332	0.001	0.001	0.0000	0.00
30	1	29-30	2055	1	0.0002	0.0328	0.0332	0.001	0.001	0.0000	0.00
Total Increased Cancer Risk								0.17	0.139	0.008	**0.32**

Maximum Hazard Index	Maximum Fugitive PM2.5	Total PM2.5
0.00005	0.02	0.02

* Third trimester of pregnancy

14789 Oka Road, Los Gatos, CA - SR-85 Traffic - TACs & PM2.5
AERMOD Risk Modeling Parameters and Maximum Concentrations
On-Site 1st (2.0m - 6.5ft) & 2nd (4.9m - 16ft) Floor Receptor Heights

Emission Year	2026
Receptor Information	Maximum On-Site Receptor
Number of Receptors	138
Receptor Height	1st (2.0m) and 2nd (4.9m) Floors
Receptor Distances	At each residential unit
Meteorological Conditions	
BAQMD San Jose Airport Met Data	2013-2017
Land Use Classification	Urban
Wind Speed	Variable
Wind Direction	Variable

On-Site Cancer Risk Maximum Concentrations

Meteorological Data Years	Concentration (µg/m3)			
	DPM	Exhaust TOG	Evaporative TOG	
2013-2017	0.0002	0.0258	0.0261	1st Floor
2013-2017	0.0002	0.0250	0.0252	2nd Floor

On-Site PM2.5 Maximum Concentrations

Meteorological Data Years	PM2.5 Concentration (µg/m3)			
	Total PM2.5	Fugitive PM2.5	Vehicle PM2.5	
2013-2017	0.0173	0.0156	0.0017	1st Floor
2013-2017	0.0168	0.0151	0.0017	2nd Floor

14789 Oka Road, Los Gatos, CA - SR-85 Cancer Risk & PM2.5
Impacts at On-Site 1st Floor Receptors - 2.0m receptor heights
30 Year Residential Exposure

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air $(\mu g/m^3)$
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

Values

	Infant/Child			Adult
Age -->	3rd Trimester	0 - 2	2 - 16	16 - 30
Parameter				
ASF =	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

Maximum - Exposure Information					Concentration (ug/m3)			Cancer Risk (per million)			
Exposure Year	Exposure Duration (years)	Age	Year	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	TOTAL
0	0.25	-0.25 - 0*	2026	10	0.0002	0.0258	0.0261	0.002	0.002	0.0001	0.00
1	1	0 - 1	2026	10	0.0002	0.0258	0.0261	0.030	0.024	0.0014	0.06
2	1	1 - 2	2027	10	0.0002	0.0258	0.0261	0.030	0.024	0.0014	0.06
3	1	2 - 3	2028	3	0.0002	0.0258	0.0261	0.005	0.004	0.0002	0.01
4	1	3 - 4	2029	3	0.0002	0.0258	0.0261	0.005	0.004	0.0002	0.01
5	1	4 - 5	2030	3	0.0002	0.0258	0.0261	0.005	0.004	0.0002	0.01
6	1	5 - 6	2031	3	0.0002	0.0258	0.0261	0.005	0.004	0.0002	0.01
7	1	6 - 7	2032	3	0.0002	0.0258	0.0261	0.005	0.004	0.0002	0.01
8	1	7 - 8	2033	3	0.0002	0.0258	0.0261	0.005	0.004	0.0002	0.01
9	1	8 - 9	2034	3	0.0002	0.0258	0.0261	0.005	0.004	0.0002	0.01
10	1	9 - 10	2035	3	0.0002	0.0258	0.0261	0.005	0.004	0.0002	0.01
11	1	10 - 11	2036	3	0.0002	0.0258	0.0261	0.005	0.004	0.0002	0.01
12	1	11 - 12	2037	3	0.0002	0.0258	0.0261	0.005	0.004	0.0002	0.01
13	1	12 - 13	2038	3	0.0002	0.0258	0.0261	0.005	0.004	0.0002	0.01
14	1	13 - 14	2039	3	0.0002	0.0258	0.0261	0.005	0.004	0.0002	0.01
15	1	14 - 15	2040	3	0.0002	0.0258	0.0261	0.005	0.004	0.0002	0.01
16	1	15 - 16	2041	3	0.0002	0.0258	0.0261	0.005	0.004	0.0002	0.01
17	1	16-17	2042	1	0.0002	0.0258	0.0261	0.001	0.000	0.0000	0.00
18	1	17-18	2043	1	0.0002	0.0258	0.0261	0.001	0.000	0.0000	0.00
19	1	18-19	2044	1	0.0002	0.0258	0.0261	0.001	0.000	0.0000	0.00
20	1	19-20	2045	1	0.0002	0.0258	0.0261	0.001	0.000	0.0000	0.00
21	1	20-21	2046	1	0.0002	0.0258	0.0261	0.001	0.000	0.0000	0.00
22	1	21-22	2047	1	0.0002	0.0258	0.0261	0.001	0.000	0.0000	0.00
23	1	22-23	2048	1	0.0002	0.0258	0.0261	0.001	0.000	0.0000	0.00
24	1	23-24	2049	1	0.0002	0.0258	0.0261	0.001	0.000	0.0000	0.00
25	1	24-25	2050	1	0.0002	0.0258	0.0261	0.001	0.000	0.0000	0.00
26	1	25-26	2051	1	0.0002	0.0258	0.0261	0.001	0.000	0.0000	0.00
27	1	26-27	2052	1	0.0002	0.0258	0.0261	0.001	0.000	0.0000	0.00
28	1	27-28	2053	1	0.0002	0.0258	0.0261	0.001	0.000	0.0000	0.00
29	1	28-29	2054	1	0.0002	0.0258	0.0261	0.001	0.000	0.0000	0.00
30	1	29-30	2055	1	0.0002	0.0258	0.0261	0.001	0.000	0.0000	0.00
Total Increased Cancer Risk								0.13	0.110	0.007	**0.25**

Maximum Hazard Index	Maximum Fugitive PM2.5	Total PM2.5
0.00004	0.02	0.02

* Third trimester of pregnancy

14789 Oka Road, Los Gatos, CA - SR-85 Cancer Risk & PM2.5
Impacts at On-Site 2nd Floor Receptors - 4.9m receptor heights
30 Year Residential Exposure

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air $(\mu g/m^3)$
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

Values

	Infant/Child			Adult
Age --> / Parameter	3rd Trimester	0 - 2	2 - 16	16 - 30
ASF =	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

Maximum - Exposure Information					Concentration (ug/m3)			Cancer Risk (per million)			
Exposure Year	Exposure Duration (years)	Age	Year	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	TOTAL
0	0.25	-0.25 - 0*	2026	10	0.0002	0.0250	0.0252	0.002	0.002	0.0001	0.00
1	1	0 - 1	2026	10	0.0002	0.0250	0.0252	0.030	0.023	0.0014	0.05
2	1	1 - 2	2027	10	0.0002	0.0250	0.0252	0.030	0.023	0.0014	0.05
3	1	2 - 3	2028	3	0.0002	0.0250	0.0252	0.005	0.004	0.0002	0.01
4	1	3 - 4	2029	3	0.0002	0.0250	0.0252	0.005	0.004	0.0002	0.01
5	1	4 - 5	2030	3	0.0002	0.0250	0.0252	0.005	0.004	0.0002	0.01
6	1	5 - 6	2031	3	0.0002	0.0250	0.0252	0.005	0.004	0.0002	0.01
7	1	6 - 7	2032	3	0.0002	0.0250	0.0252	0.005	0.004	0.0002	0.01
8	1	7 - 8	2033	3	0.0002	0.0250	0.0252	0.005	0.004	0.0002	0.01
9	1	8 - 9	2034	3	0.0002	0.0250	0.0252	0.005	0.004	0.0002	0.01
10	1	9 - 10	2035	3	0.0002	0.0250	0.0252	0.005	0.004	0.0002	0.01
11	1	10 - 11	2036	3	0.0002	0.0250	0.0252	0.005	0.004	0.0002	0.01
12	1	11 - 12	2037	3	0.0002	0.0250	0.0252	0.005	0.004	0.0002	0.01
13	1	12 - 13	2038	3	0.0002	0.0250	0.0252	0.005	0.004	0.0002	0.01
14	1	13 - 14	2039	3	0.0002	0.0250	0.0252	0.005	0.004	0.0002	0.01
15	1	14 - 15	2040	3	0.0002	0.0250	0.0252	0.005	0.004	0.0002	0.01
16	1	15 - 16	2041	3	0.0002	0.0250	0.0252	0.005	0.004	0.0002	0.01
17	1	16-17	2042	1	0.0002	0.0250	0.0252	0.001	0.000	0.0000	0.00
18	1	17-18	2043	1	0.0002	0.0250	0.0252	0.001	0.000	0.0000	0.00
19	1	18-19	2044	1	0.0002	0.0250	0.0252	0.001	0.000	0.0000	0.00
20	1	19-20	2045	1	0.0002	0.0250	0.0252	0.001	0.000	0.0000	0.00
21	1	20-21	2046	1	0.0002	0.0250	0.0252	0.001	0.000	0.0000	0.00
22	1	21-22	2047	1	0.0002	0.0250	0.0252	0.001	0.000	0.0000	0.00
23	1	22-23	2048	1	0.0002	0.0250	0.0252	0.001	0.000	0.0000	0.00
24	1	23-24	2049	1	0.0002	0.0250	0.0252	0.001	0.000	0.0000	0.00
25	1	24-25	2050	1	0.0002	0.0250	0.0252	0.001	0.000	0.0000	0.00
26	1	25-26	2051	1	0.0002	0.0250	0.0252	0.001	0.000	0.0000	0.00
27	1	26-27	2052	1	0.0002	0.0250	0.0252	0.001	0.000	0.0000	0.00
28	1	27-28	2053	1	0.0002	0.0250	0.0252	0.001	0.000	0.0000	0.00
29	1	28-29	2054	1	0.0002	0.0250	0.0252	0.001	0.000	0.0000	0.00
30	1	29-30	2055	1	0.0002	0.0250	0.0252	0.001	0.000	0.0000	0.00
Total Increased Cancer Risk								0.13	0.106	0.006	**0.25**

Maximum Hazard Index	Maximum Fugitive PM2.5	Total PM2.5
0.00004	0.02	0.02

* Third trimester of pregnancy

CT-EMFAC2021 Emissions Factors for Santa Clara County 2026 – SR-17

File Name:	SR-17 Oka Rd - Santa Clara (SF) - 2026 - Annual.EF
CT-EMFAC2021 Version:	1.0.2.0
Run Date:	1/8/2025 15:33
Area:	Santa Clara (SF)
Analysis Year:	2026
Season:	Annual

Vehicle Category	VMT Fraction Across Category	Diesel VMT Fraction Within Category	Gas VMT Fraction Within Category
Truck 1	0.045	0.416	0.563
Truck 2	0.011	0.904	0.045
Non-Truck	0.944	0.007	0.914

Road Type:	Major/Collector	
Silt Loading Factor:	CARB	0.015 g/m2
Precipitation Correction:	CARB	P = 63 days N = 365 days

Fleet Average Running Exhaust Emission Factors (grams/veh-mile)

Pollutant Name	<= 5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph	50 mph	55 mph	60 mph	65 mph	70 mph	75 mph
PM2.5	0.008793	0.005865	0.00409	0.002992	0.002297	0.001846	0.001553	0.001372	0.001278	0.001258	0.001308	0.001426	0.001623	0.001748	0.001748
TOG	0.125737	0.082139	0.055843	0.040231	0.030674	0.024543	0.020529	0.017935	0.016371	0.015643	0.01567	0.016523	0.018307	0.019635	0.019635
Diesel PM	0.00167	0.001401	0.001123	0.000911	0.000759	0.000646	0.000565	0.000515	0.000494	0.000502	0.000538	0.000592	0.000654	0.000657	0.000657

Fleet Average Running Loss Emission Factors (grams/veh-hour)

Pollutant Name	Emission Factor
TOG	0.989348

Fleet Average Tire Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.002079

Fleet Average Brake Wear Factors (grams/veh-mile)

Pollutant Name	<= 5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph	50 mph	55 mph	60 mph	65 mph	70 mph	75 mph
PM2.5	0.003942	0.004474	0.005001	0.005523	0.005812	0.005904	0.005955	0.005495	0.004502	0.003517	0.002891	0.002595	0.002299	0.002299	0.002299

Fleet Average Road Dust Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.007514

END

SR-17 2026 Traffic Emissions and Health Risk Calculations

Analysis Year = ***2026***

Vehicle Type	2022 Caltrans Vehicles (veh/day)	2026 Vehicles (veh/day)
Total	**95,000**	**98,800**

Increase From 2022 1.04
Vehicles/Direction **49,400**
Avg Vehicles/Hour/Direction 2,058

Traffic Data Year = ***2022***

2022 Caltrans Traffic and Truck AADT		Total	Trucks by Axle			
	AADT Total	Truck	2	3	4	5
SR-17 at Jct SR-85	95,000	5,301	4,304	305	129	562
			81.20%	5.76%	2.44%	10.60%
Percent of Total Vehicles		5.58%	4.53%	0.32%	0.14%	0.59%

Traffic Increase per Year (%) = *1.00%*

5,301	Trucks	100%
4.5%	MDT	
1.0%	HDT	
5.6%	Total	
94.4%	Other	

14789 Oka Road, Los Gatos, CA - Off-Site Residential
Cumulative Traffic - SR-17
DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions
Year = 2026

											Line Area					
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
DPM_NB_17	SR-17 Northbound	NB	2	533.5	0.33	13.3	43.7	3.4	65	49,400	7,104	76,463	1.745E-08	1.287E-08	6.8	3.16
DPM_SB_17	SR-17 Southbound	SB	3	590.2	0.37	17.0	55.7	3.4	65	49,400	10,017	107,826	1.369E-08	1.009E-08	6.8	3.16
									Total	98,800						

Emission Factors - DPM

Speed Category	1	2	3	4
Travel Speed (mph)	65	60		
Emissions per Vehicle (g/VMT)	0.00065	0.00059		

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and DPM Emissions - DPM_NB_17

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	2.02%	997	6.00E-05	9	5.11%	2523	1.38E-04	17	5.75%	2841	1.55E-04
2	1.77%	876	5.27E-05	10	5.15%	2545	1.39E-04	18	5.63%	2783	1.68E-04
3	1.70%	841	5.07E-05	11	5.33%	2634	1.44E-04	19	5.25%	2591	1.56E-04
4	1.76%	871	5.24E-05	12	5.46%	2697	1.47E-04	20	4.67%	2309	1.39E-04
5	2.29%	1133	6.82E-05	13	5.45%	2690	1.47E-04	21	4.23%	2088	1.26E-04
6	3.17%	1568	9.44E-05	14	5.43%	2684	1.46E-04	22	3.89%	1920	1.16E-04
7	4.02%	1986	1.20E-04	15	5.52%	2725	1.49E-04	23	3.23%	1597	9.62E-05
8	4.91%	2426	1.46E-04	16	5.70%	2818	1.54E-04	24	2.55%	1257	7.57E-05
								Total		49,400	

2026 Hourly Traffic Volumes Per Direction and DPM Emissions - DPM_SB_17

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.31%	648	4.31E-05	9	5.88%	2905	1.75E-04	17	6.41%	3164	1.91E-04
2	0.99%	492	3.27E-05	10	5.70%	2818	1.70E-04	18	6.30%	3112	1.88E-04
3	0.90%	442	2.95E-05	11	5.80%	2865	1.73E-04	19	5.78%	2855	1.90E-04
4	0.90%	443	2.95E-05	12	5.97%	2947	1.78E-04	20	4.85%	2397	1.60E-04
5	1.09%	539	3.59E-05	13	6.21%	3068	1.85E-04	21	4.05%	2001	1.33E-04
6	1.82%	901	6.00E-05	14	6.37%	3146	1.90E-04	22	3.48%	1720	1.15E-04
7	3.25%	1606	1.07E-04	15	6.65%	3283	1.98E-04	23	2.68%	1324	8.82E-05
8	5.15%	2547	1.70E-04	16	6.58%	3251	1.96E-04	24	1.88%	927	6.18E-05
								Total		49,400	

14789 Oka Road, Los Gatos, CA - Off-Site Residential
Cumulative Traffic - SR-17
PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions
Year = 2026

											Line Area					
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
PM25_NB_85	SR-17 Northbound	NB	2	533.5	0.33	13.3	44	1.3	65	49,400	7,104	76,463	4.330E-08	3.193E-08	2.6	1.21
PM25_SB_85	SR-17 Southbound	SB	3	590.2	0.37	17.0	56	1.3	65	49,400	10,017	107,826	3.397E-08	2.505E-08	2.6	1.21
									Total	98,800						

Emission Factors - PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	65	60		
Emissions per Vehicle (g/VMT)	0.001623	0.001426		

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and PM2.5 Emissions - PM25_NB_85

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	2.02%	997	1.49E-04	9	5.11%	2523	3.31E-04	17	5.75%	2841	3.73E-04
2	1.77%	876	1.31E-04	10	5.15%	2545	3.34E-04	18	5.63%	2783	4.16E-04
3	1.70%	841	1.26E-04	11	5.33%	2634	3.46E-04	19	5.25%	2591	3.87E-04
4	1.76%	871	1.30E-04	12	5.46%	2697	3.54E-04	20	4.67%	2309	3.45E-04
5	2.29%	1133	1.69E-04	13	5.45%	2690	3.53E-04	21	4.23%	2088	3.12E-04
6	3.17%	1568	2.34E-04	14	5.43%	2684	3.52E-04	22	3.89%	1920	2.87E-04
7	4.02%	1986	2.97E-04	15	5.52%	2725	3.58E-04	23	3.23%	1597	2.39E-04
8	4.91%	2426	3.63E-04	16	5.70%	2818	3.70E-04	24	2.55%	1257	1.88E-04
								Total		49,400	

2026 Hourly Traffic Volumes Per Direction and PM2.5 Emissions - PM25_SB_85

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.31%	648	1.07E-04	9	5.88%	2905	4.22E-04	17	6.41%	3164	4.60E-04
2	0.99%	492	8.13E-05	10	5.70%	2818	4.09E-04	18	6.30%	3112	4.52E-04
3	0.90%	442	7.31E-05	11	5.80%	2865	4.16E-04	19	5.78%	2855	4.72E-04
4	0.90%	443	7.32E-05	12	5.97%	2947	4.28E-04	20	4.85%	2397	3.96E-04
5	1.09%	539	8.91E-05	13	6.21%	3068	4.46E-04	21	4.05%	2001	3.31E-04
6	1.82%	901	1.49E-04	14	6.37%	3146	4.57E-04	22	3.48%	1720	2.84E-04
7	3.25%	1606	2.66E-04	15	6.65%	3283	4.77E-04	23	2.68%	1324	2.19E-04
8	5.15%	2547	4.21E-04	16	6.58%	3251	4.72E-04	24	1.88%	927	1.53E-04
								Total		49,400	

14789 Oka Road, Los Gatos, CA - Off-Site Residential
Cumulative Traffic - SR-17
TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions
Year = 2026

											Line Area					
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height	(Sigma z) Initial Vertical Dimension
TEXH_NB_85	SR-17 Northbound	NB	2	533.5	0.33	13.3	44	1.3	65	49,400	7,104	76,463	4.885E-07	3.602E-07	2.6	1.21
TEXH_SB_85	SR-17 Southbound	SB	3	590.2	0.37	17.0	56	1.3	65	49,400	10,017	107,826	3.832E-07	2.825E-07	2.6	1.21
									Total	98,800						

Emission Factors - TOG Exhaust

Speed Category	1	2	3	4
Travel Speed (mph)	65	60		
Emissions per Vehicle (g/VMT)	0.01831	0.01652		

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH_NB_85

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	2.02%	997	1.68E-03	9	5.11%	2523	3.84E-03	17	5.75%	2841	4.32E-03
2	1.77%	876	1.48E-03	10	5.15%	2545	3.87E-03	18	5.63%	2783	4.69E-03
3	1.70%	841	1.42E-03	11	5.33%	2634	4.01E-03	19	5.25%	2591	4.37E-03
4	1.76%	871	1.47E-03	12	5.46%	2697	4.10E-03	20	4.67%	2309	3.89E-03
5	2.29%	1133	1.91E-03	13	5.45%	2690	4.09E-03	21	4.23%	2088	3.52E-03
6	3.17%	1568	2.64E-03	14	5.43%	2684	4.08E-03	22	3.89%	1920	3.24E-03
7	4.02%	1986	3.35E-03	15	5.52%	2725	4.15E-03	23	3.23%	1597	2.69E-03
8	4.91%	2426	4.09E-03	16	5.70%	2818	4.29E-03	24	2.55%	1257	2.12E-03
								Total		49,400	

2026 Hourly Traffic Volumes Per Direction and TOG Exhaust Emissions - TEXH_SB_85

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.31%	648	1.21E-03	9	5.88%	2905	4.89E-03	17	6.41%	3164	5.33E-03
2	0.99%	492	9.17E-04	10	5.70%	2818	4.74E-03	18	6.30%	3112	5.24E-03
3	0.90%	442	8.25E-04	11	5.80%	2865	4.82E-03	19	5.78%	2855	5.32E-03
4	0.90%	443	8.26E-04	12	5.97%	2947	4.96E-03	20	4.85%	2397	4.47E-03
5	1.09%	539	1.01E-03	13	6.21%	3068	5.16E-03	21	4.05%	2001	3.73E-03
6	1.82%	901	1.68E-03	14	6.37%	3146	5.29E-03	22	3.48%	1720	3.21E-03
7	3.25%	1606	3.00E-03	15	6.65%	3283	5.53E-03	23	2.68%	1324	2.47E-03
8	5.15%	2547	4.75E-03	16	6.58%	3251	5.47E-03	24	1.88%	927	1.73E-03
								Total		49,400	

14789 Oka Road, Los Gatos, CA - Off-Site Residential
Cumulative Traffic - SR-17
TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions
Year = 2026

											Line Area					
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height	(Sigma z) Initial Vertical Dimension
TEVAP_NB_85	SR-17 Northbound	NB	2	533.5	0.33	13.3	44	1.3	65	49,400	7,104	76,463	4.061E-07	2.994E-07	2.6	1.21
TEVAP_SB_85	SR-17 Southbound	SB	3	590.2	0.37	17.0	56	1.3	65	49,400	10,017	107,826	3.186E-07	2.349E-07	2.6	1.21
									Total	98,800						

Emission Factors - PM2.5 - Evaporative TOG

Speed Category	1	2	3	4
Travel Speed (mph)	65	60		
Emissions per Vehicle per Hour (g/hour)	0.98935	0.98935		
Emissions per Vehicle per Mile (g/VMT)	0.01522	0.01649		

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP_NB_85

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	2.02%	997	1.40E-03	9	5.11%	2523	3.83E-03	17	5.75%	2841	4.31E-03
2	1.77%	876	1.23E-03	10	5.15%	2545	3.87E-03	18	5.63%	2783	3.90E-03
3	1.70%	841	1.18E-03	11	5.33%	2634	4.00E-03	19	5.25%	2591	3.63E-03
4	1.76%	871	1.22E-03	12	5.46%	2697	4.09E-03	20	4.67%	2309	3.24E-03
5	2.29%	1133	1.59E-03	13	5.45%	2690	4.09E-03	21	4.23%	2088	2.93E-03
6	3.17%	1568	2.20E-03	14	5.43%	2684	4.08E-03	22	3.89%	1920	2.69E-03
7	4.02%	1986	2.78E-03	15	5.52%	2725	4.14E-03	23	3.23%	1597	2.24E-03
8	4.91%	2426	3.40E-03	16	5.70%	2818	4.28E-03	24	2.55%	1257	1.76E-03
								Total		49,400	

2026 Hourly Traffic Volumes Per Direction and TOG Evaporative Emissions - TEVAP_SB_85

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.31%	648	1.00E-03	9	5.88%	2905	4.88E-03	17	6.41%	3164	5.32E-03
2	0.99%	492	7.62E-04	10	5.70%	2818	4.73E-03	18	6.30%	3112	5.23E-03
3	0.90%	442	6.86E-04	11	5.80%	2865	4.81E-03	19	5.78%	2855	4.43E-03
4	0.90%	443	6.86E-04	12	5.97%	2947	4.95E-03	20	4.85%	2397	3.72E-03
5	1.09%	539	8.36E-04	13	6.21%	3068	5.15E-03	21	4.05%	2001	3.10E-03
6	1.82%	901	1.40E-03	14	6.37%	3146	5.28E-03	22	3.48%	1720	2.67E-03
7	3.25%	1606	2.49E-03	15	6.65%	3283	5.51E-03	23	2.68%	1324	2.05E-03
8	5.15%	2547	3.95E-03	16	6.58%	3251	5.46E-03	24	1.88%	927	1.44E-03
								Total		49,400	

14789 Oka Road, Los Gatos, CA - Off-Site Residential
Cumulative Traffic - SR-17
Fugitive Road PM2.5 Modeling - Roadway Links, Traffic Volumes, and Fugitive Road PM2.5 Emissions
Year = 2026

											Line Area					
Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
FUG_NB_85	SR-17 Northbound	NB	2	533.5	0.33	13.3	44	1.3	65	49,400	7,104	76,463	3.173E-07	2.340E-07	2.6	1.21
FUG_SB_85	SR-17 Southbound	SB	3	590.2	0.37	17.0	56	1.3	65	49,400	10,017	107,826	2.489E-07	1.835E-07	2.6	1.21
									Total	98,800						

Emission Factors - Fugitive PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	65	60		
Tire Wear - Emissions per Vehicle (g/VMT)	0.00208	0.00208		
Brake Wear - Emissions per Vehicle (g/VMT)	0.00230	0.00260		
Road Dust - Emissions per Vehicle (g/VMT)	0.00751	0.00751		
Total Fugitive PM2.5 - Emissions per Vehicle (g/VMT)	0.01189	0.01219		

Emisson Factors from CT-EMFAC2021

2026 Hourly Traffic Volumes and Fugitive PM2.5 Emissions - FUG_NB_85

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	2.02%	997	1.09E-03	9	5.11%	2523	2.83E-03	17	5.75%	2841	3.19E-03
2	1.77%	876	9.59E-04	10	5.15%	2545	2.86E-03	18	5.63%	2783	3.05E-03
3	1.70%	841	9.21E-04	11	5.33%	2634	2.96E-03	19	5.25%	2591	2.84E-03
4	1.76%	871	9.53E-04	12	5.46%	2697	3.03E-03	20	4.67%	2309	2.53E-03
5	2.29%	1133	1.24E-03	13	5.45%	2690	3.02E-03	21	4.23%	2088	2.29E-03
6	3.17%	1568	1.72E-03	14	5.43%	2684	3.01E-03	22	3.89%	1920	2.10E-03
7	4.02%	1986	2.17E-03	15	5.52%	2725	3.06E-03	23	3.23%	1597	1.75E-03
8	4.91%	2426	2.66E-03	16	5.70%	2818	3.16E-03	24	2.55%	1257	1.38E-03
								Total		49,400	

2026 Hourly Traffic Volumes Per Direction and Fugitive PM2.5 Emissions - FUG_SB_85

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.31%	648	7.85E-04	9	5.88%	2905	3.61E-03	17	6.41%	3164	3.93E-03
2	0.99%	492	5.95E-04	10	5.70%	2818	3.50E-03	18	6.30%	3112	3.86E-03
3	0.90%	442	5.36E-04	11	5.80%	2865	3.56E-03	19	5.78%	2855	3.46E-03
4	0.90%	443	5.36E-04	12	5.97%	2947	3.66E-03	20	4.85%	2397	2.90E-03
5	1.09%	539	6.53E-04	13	6.21%	3068	3.81E-03	21	4.05%	2001	2.42E-03
6	1.82%	901	1.09E-03	14	6.37%	3146	3.91E-03	22	3.48%	1720	2.08E-03
7	3.25%	1606	1.95E-03	15	6.65%	3283	4.08E-03	23	2.68%	1324	1.60E-03
8	5.15%	2547	3.09E-03	16	6.58%	3251	4.04E-03	24	1.88%	927	1.12E-03
								Total		49,400	

14789 Oka Road, Los Gatos, CA - SR-17 Traffic - TACs & PM2.5
AERMOD Risk Modeling Parameters and Maximum Concentrations
at Project MEI Receptor, 1.5m receptor height

Emission Year	2026
Receptor Information	Project MEI receptor
Number of Receptors	1
Receptor Height	1.5 meters
Receptor Distances	At Project MEI location
Meteorological Conditions	
BAQMD San Jose Airport Met Data	2013-2017
Land Use Classification	Urban
Wind Speed	Variable
Wind Direction	Variable

Project MEI Cancer Risk Maximum Concentrations

Meteorological Data Years	Concentration (µg/m3)		
	DPM	Exhaust TOG	Evaporative TOG
2013-2017	0.0028	0.0852	0.0725

Project MEI PM2.5 Maximum Concentrations

Meteorological Data Years	PM2.5 Concentration (µg/m3)		
	Total PM2.5	Fugitive PM2.5	Vehicle PM2.5
2013-2017	0.0638	0.0562	0.0075

14789 Oka Road, Los Gatos, CA - SR-17 Cancer Risk & PM2.5
Impacts at Project MEIs - 1.5 meter (1st floor) receptor height
30 Year Residential Exposure

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air $(\mu g/m^3)$
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

Values

	Infant/Child			Adult
Age -->	3rd Trimester	0 - 2	2 - 16	16 - 30
Parameter				
ASF =	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

Maximum - Exposure Information					Concentration (ug/m3)			Cancer Risk (per million)			TOTAL
Exposure Year	Exposure Duration (years)	Age	Year	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	
0	0.25	-0.25 - 0*	2026	10	0.0028	0.0852	0.0725	0.038	0.007	0.0003	0.05
1	1	0 - 1	2026	10	0.0028	0.0852	0.0725	0.465	0.080	0.0040	0.55
2	1	1 - 2	2027	10	0.0028	0.0852	0.0725	0.465	0.080	0.0040	0.55
3	1	2 - 3	2028	3	0.0028	0.0852	0.0725	0.073	0.013	0.0006	0.09
4	1	3 - 4	2029	3	0.0028	0.0852	0.0725	0.073	0.013	0.0006	0.09
5	1	4 - 5	2030	3	0.0028	0.0852	0.0725	0.073	0.013	0.0006	0.09
6	1	5 - 6	2031	3	0.0028	0.0852	0.0725	0.073	0.013	0.0006	0.09
7	1	6 - 7	2032	3	0.0028	0.0852	0.0725	0.073	0.013	0.0006	0.09
8	1	7 - 8	2033	3	0.0028	0.0852	0.0725	0.073	0.013	0.0006	0.09
9	1	8 - 9	2034	3	0.0028	0.0852	0.0725	0.073	0.013	0.0006	0.09
10	1	9 - 10	2035	3	0.0028	0.0852	0.0725	0.073	0.013	0.0006	0.09
11	1	10 - 11	2036	3	0.0028	0.0852	0.0725	0.073	0.013	0.0006	0.09
12	1	11 - 12	2037	3	0.0028	0.0852	0.0725	0.073	0.013	0.0006	0.09
13	1	12 - 13	2038	3	0.0028	0.0852	0.0725	0.073	0.013	0.0006	0.09
14	1	13 - 14	2039	3	0.0028	0.0852	0.0725	0.073	0.013	0.0006	0.09
15	1	14 - 15	2040	3	0.0028	0.0852	0.0725	0.073	0.013	0.0006	0.09
16	1	15 - 16	2041	3	0.0028	0.0852	0.0725	0.073	0.013	0.0006	0.09
17	1	16-17	2042	1	0.0028	0.0852	0.0725	0.008	0.001	0.0001	0.01
18	1	17-18	2043	1	0.0028	0.0852	0.0725	0.008	0.001	0.0001	0.01
19	1	18-19	2044	1	0.0028	0.0852	0.0725	0.008	0.001	0.0001	0.01
20	1	19-20	2045	1	0.0028	0.0852	0.0725	0.008	0.001	0.0001	0.01
21	1	20-21	2046	1	0.0028	0.0852	0.0725	0.008	0.001	0.0001	0.01
22	1	21-22	2047	1	0.0028	0.0852	0.0725	0.008	0.001	0.0001	0.01
23	1	22-23	2048	1	0.0028	0.0852	0.0725	0.008	0.001	0.0001	0.01
24	1	23-24	2049	1	0.0028	0.0852	0.0725	0.008	0.001	0.0001	0.01
25	1	24-25	2050	1	0.0028	0.0852	0.0725	0.008	0.001	0.0001	0.01
26	1	25-26	2051	1	0.0028	0.0852	0.0725	0.008	0.001	0.0001	0.01
27	1	26-27	2052	1	0.0028	0.0852	0.0725	0.008	0.001	0.0001	0.01
28	1	27-28	2053	1	0.0028	0.0852	0.0725	0.008	0.001	0.0001	0.01
29	1	28-29	2054	1	0.0028	0.0852	0.0725	0.008	0.001	0.0001	0.01
30	1	29-30	2055	1	0.0028	0.0852	0.0725	0.008	0.001	0.0001	0.01
Total Increased Cancer Risk								2.11	0.362	0.018	**2.49**

Maximum Hazard Index	Maximum Fugitive PM2.5	Total PM2.5
0.001	0.06	0.06

* Third trimester of pregnancy

14789 Oka Road, Los Gatos, CA - SR-17 Traffic - TACs & PM2.5
AERMOD Risk Modeling Parameters and Maximum Concentrations
On-Site 1st (2.0m - 6.5ft) & 2nd (4.9m - 16ft) Floor Receptor Heights

Emission Year	2026
Receptor Information	Maximum On-Site Receptor
Number of Receptors	138
Receptor Height	1st (2.0m) and 2nd (4.9m) Floors
Receptor Distances	At each residential unit

Meteorological Conditions	
BAQMD San Jose Airport Met Data	2013-2017
Land Use Classification	Urban
Wind Speed	Variable
Wind Direction	Variable

On-Site Cancer Risk Maximum Concentrations

Meteorological Data Years	Concentration (µg/m3)			
	DPM	Exhaust TOG	Evaporative TOG	
2013-2017	0.0029	0.0876	0.0745	1st Floor
2013-2017	0.0028	0.0841	0.0716	2nd Floor

On-Site PM2.5 Maximum Concentrations

Meteorological Data Years	PM2.5 Concentration (µg/m3)			
	Total PM2.5	Fugitive PM2.5	Vehicle PM2.5	
2013-2017	0.0655	0.0578	0.0077	1st Floor
2013-2017	0.0629	0.0555	0.0074	2nd Floor

14789 Oka Road, Los Gatos, CA - SR-17 Cancer Risk & PM2.5
Impacts at On-Site 1st Floor Receptors - 2.0m receptor heights
30 Year Residential Exposure

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air $(\mu g/m^3)$
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

Values

	Infant/Child			Adult
Age -->	3rd Trimester	0 - 2	2 - 16	16 - 30
Parameter				
ASF =	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

Maximum - Exposure Information					Concentration (ug/m3)			Cancer Risk (per million)			
Exposure Year	Exposure Duration (years)	Age	Year	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	TOTAL
0	0.25	-0.25 - 0*	2026	10	0.0029	0.0876	0.0745	0.039	0.007	0.0003	0.05
1	1	0 - 1	2026	10	0.0029	0.0876	0.0745	0.475	0.082	0.0041	0.56
2	1	1 - 2	2027	10	0.0029	0.0876	0.0745	0.475	0.082	0.0041	0.56
3	1	2 - 3	2028	3	0.0029	0.0876	0.0745	0.075	0.013	0.0006	0.09
4	1	3 - 4	2029	3	0.0029	0.0876	0.0745	0.075	0.013	0.0006	0.09
5	1	4 - 5	2030	3	0.0029	0.0876	0.0745	0.075	0.013	0.0006	0.09
6	1	5 - 6	2031	3	0.0029	0.0876	0.0745	0.075	0.013	0.0006	0.09
7	1	6 - 7	2032	3	0.0029	0.0876	0.0745	0.075	0.013	0.0006	0.09
8	1	7 - 8	2033	3	0.0029	0.0876	0.0745	0.075	0.013	0.0006	0.09
9	1	8 - 9	2034	3	0.0029	0.0876	0.0745	0.075	0.013	0.0006	0.09
10	1	9 - 10	2035	3	0.0029	0.0876	0.0745	0.075	0.013	0.0006	0.09
11	1	10 - 11	2036	3	0.0029	0.0876	0.0745	0.075	0.013	0.0006	0.09
12	1	11 - 12	2037	3	0.0029	0.0876	0.0745	0.075	0.013	0.0006	0.09
13	1	12 - 13	2038	3	0.0029	0.0876	0.0745	0.075	0.013	0.0006	0.09
14	1	13 - 14	2039	3	0.0029	0.0876	0.0745	0.075	0.013	0.0006	0.09
15	1	14 - 15	2040	3	0.0029	0.0876	0.0745	0.075	0.013	0.0006	0.09
16	1	15 - 16	2041	3	0.0029	0.0876	0.0745	0.075	0.013	0.0006	0.09
17	1	16-17	2042	1	0.0029	0.0876	0.0745	0.008	0.001	0.0001	0.01
18	1	17-18	2043	1	0.0029	0.0876	0.0745	0.008	0.001	0.0001	0.01
19	1	18-19	2044	1	0.0029	0.0876	0.0745	0.008	0.001	0.0001	0.01
20	1	19-20	2045	1	0.0029	0.0876	0.0745	0.008	0.001	0.0001	0.01
21	1	20-21	2046	1	0.0029	0.0876	0.0745	0.008	0.001	0.0001	0.01
22	1	21-22	2047	1	0.0029	0.0876	0.0745	0.008	0.001	0.0001	0.01
23	1	22-23	2048	1	0.0029	0.0876	0.0745	0.008	0.001	0.0001	0.01
24	1	23-24	2049	1	0.0029	0.0876	0.0745	0.008	0.001	0.0001	0.01
25	1	24-25	2050	1	0.0029	0.0876	0.0745	0.008	0.001	0.0001	0.01
26	1	25-26	2051	1	0.0029	0.0876	0.0745	0.008	0.001	0.0001	0.01
27	1	26-27	2052	1	0.0029	0.0876	0.0745	0.008	0.001	0.0001	0.01
28	1	27-28	2053	1	0.0029	0.0876	0.0745	0.008	0.001	0.0001	0.01
29	1	28-29	2054	1	0.0029	0.0876	0.0745	0.008	0.001	0.0001	0.01
30	1	29-30	2055	1	0.0029	0.0876	0.0745	0.008	0.001	0.0001	0.01
Total Increased Cancer Risk								2.15	0.372	0.019	**2.54**

Maximum Hazard Index	Maximum Fugitive PM2.5	Total PM2.5
0.001	0.06	0.07

* Third trimester of pregnancy

14789 Oka Road, Los Gatos, CA - SR-17 Cancer Risk & PM2.5
Impacts at On-Site 2nd Floor Receptors - 4.9m receptor heights
30 Year Residential Exposure

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air $(\mu g/m^3)$
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

Values

	Infant/Child			Adult
Age --> / Parameter	3rd Trimester	0 - 2	2 - 16	16 - 30
ASF =	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

Maximum - Exposure Information					Concentration (ug/m3)			Cancer Risk (per million)			
Exposure Year	Exposure Duration (years)	Age	Year	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	TOTAL
0	0.25	-0.25 - 0*	2026	10	0.0028	0.0841	0.0716	0.038	0.007	0.0003	0.04
1	1	0 - 1	2026	10	0.0028	0.0841	0.0716	0.460	0.079	0.0040	0.54
2	1	1 - 2	2027	10	0.0028	0.0841	0.0716	0.460	0.079	0.0040	0.54
3	1	2 - 3	2028	3	0.0028	0.0841	0.0716	0.072	0.012	0.0006	0.09
4	1	3 - 4	2029	3	0.0028	0.0841	0.0716	0.072	0.012	0.0006	0.09
5	1	4 - 5	2030	3	0.0028	0.0841	0.0716	0.072	0.012	0.0006	0.09
6	1	5 - 6	2031	3	0.0028	0.0841	0.0716	0.072	0.012	0.0006	0.09
7	1	6 - 7	2032	3	0.0028	0.0841	0.0716	0.072	0.012	0.0006	0.09
8	1	7 - 8	2033	3	0.0028	0.0841	0.0716	0.072	0.012	0.0006	0.09
9	1	8 - 9	2034	3	0.0028	0.0841	0.0716	0.072	0.012	0.0006	0.09
10	1	9 - 10	2035	3	0.0028	0.0841	0.0716	0.072	0.012	0.0006	0.09
11	1	10 - 11	2036	3	0.0028	0.0841	0.0716	0.072	0.012	0.0006	0.09
12	1	11 - 12	2037	3	0.0028	0.0841	0.0716	0.072	0.012	0.0006	0.09
13	1	12 - 13	2038	3	0.0028	0.0841	0.0716	0.072	0.012	0.0006	0.09
14	1	13 - 14	2039	3	0.0028	0.0841	0.0716	0.072	0.012	0.0006	0.09
15	1	14 - 15	2040	3	0.0028	0.0841	0.0716	0.072	0.012	0.0006	0.09
16	1	15 - 16	2041	3	0.0028	0.0841	0.0716	0.072	0.012	0.0006	0.09
17	1	16-17	2042	1	0.0028	0.0841	0.0716	0.008	0.001	0.0001	0.01
18	1	17-18	2043	1	0.0028	0.0841	0.0716	0.008	0.001	0.0001	0.01
19	1	18-19	2044	1	0.0028	0.0841	0.0716	0.008	0.001	0.0001	0.01
20	1	19-20	2045	1	0.0028	0.0841	0.0716	0.008	0.001	0.0001	0.01
21	1	20-21	2046	1	0.0028	0.0841	0.0716	0.008	0.001	0.0001	0.01
22	1	21-22	2047	1	0.0028	0.0841	0.0716	0.008	0.001	0.0001	0.01
23	1	22-23	2048	1	0.0028	0.0841	0.0716	0.008	0.001	0.0001	0.01
24	1	23-24	2049	1	0.0028	0.0841	0.0716	0.008	0.001	0.0001	0.01
25	1	24-25	2050	1	0.0028	0.0841	0.0716	0.008	0.001	0.0001	0.01
26	1	25-26	2051	1	0.0028	0.0841	0.0716	0.008	0.001	0.0001	0.01
27	1	26-27	2052	1	0.0028	0.0841	0.0716	0.008	0.001	0.0001	0.01
28	1	27-28	2053	1	0.0028	0.0841	0.0716	0.008	0.001	0.0001	0.01
29	1	28-29	2054	1	0.0028	0.0841	0.0716	0.008	0.001	0.0001	0.01
30	1	29-30	2055	1	0.0028	0.0841	0.0716	0.008	0.001	0.0001	0.01
Total Increased Cancer Risk								2.08	0.357	0.018	**2.46**

Maximum Hazard Index	Maximum Fugitive PM2.5	Total PM2.5
0.001	0.06	0.06

* Third trimester of pregnancy

Bay Area Air Quality Management District

Risk & Hazard Stationary Source Inquiry Form

This form is required when users request stationary source data from BAAQMD

This form is to be used with the BAAQMD's Google Earth stationary source screening tables.

Click here for guidance on coducting risk & hazard screening, including roadways & freeways, refer to the District's Risk & Hazard Analysis flow chart.

Click here for District's Recommended Methods for Screening and Modeling Local Risks and Hazards document.

Table A: Requester Contact Information

Date of Request	**1/9/2025**
Contact Name	Jordyn Bauer
Affiliation	Illingworth & Rodkin, Inc.
Phone	707-794-0400 x106
Email	jbauer@illingworthrodkin.com
Project Name	Oka Rd Development
Address	14789 Oka Rd
City	Los Gatos
County	Santa Clara
Type (residential, commercial, mixed use, industrial, etc.)	Residential
Project Size (# of units or building square feet)	138

Comments:

For Air District assistance, the following steps must be completed:

1. Complete all the contact and project information requested in **Table A** ncomplete forms will not be processed. Please include a project site map.

2. Download and install the free program Google Earth, **http://www.google.com/earth/download/ge/,** and then download the county specific Google Earth stationary source application files from the District's website, **http://www.baaqmd.gov/Divisions/Planning-and-Research/CEQA-GUIDELINES/Tools-and-Methodology.aspx.** The small points on the map represent stationary sources permitted by the District (Map A on right). These permitted sources include diesel back-up generators, gas stations, dry cleaners, boilers, printers, auto spray booths, etc. Click on a point to view the source's Information Table, including the name, location, and preliminary estimated cancer risk, hazard index, and PM2.5 concentration.

3. Find the project site in Google Earth by inputting the site's address in the Google Earth search box.

4. Identify stationary sources within at least a 1000ft radius of project site. Verify that the location of the source on the map matches with the source's address in the Information Table, by using the Google Earth address search box to confirm the source's address location. Please report any mapping errors to the District.

5. List the stationary source information in **Table B** lue section only.

6. Note that a small percentage of the stationa sources ve Health Risk Screening Assessment (HRSA) data INSTEAD of screening level data. These sources will be noted by an asterisk next to the Plant Name (Map B on right). If HRSA values are presented, these values have already been modeled and cannot be adjusted further.

7. Email this completed form to District staff. District staff will provide the most recent risk, hazard, and PM2.5 data that are available for the source(s). If this information or data are not available, source emissions data will be provided. Staff will respond to inquiries within three weeks.

Note that a public records request received for the same stationary source information will cancel the processing of your SSIF request.

Submit forms, maps, and questions to Matthew Hanson at 415-749-8733, or mhanson@baaqmd.gov

Table B: Google Earth data

Distance from Receptor (feet) or MEI[1]	Plant No.	Facility Name	Address	Cancer Risk[2]	Hazard Risk[2]	$PM_{2.5}$[2]	Source No.[3]	Type of Source[4]	Fuel Code[5]	Status/Comments
+1000	14537	Santa Clara Valley Water Distri	14545 Oka Road	2.98	0.02	--		Generator		2022 Dataset
+1000	19819	Santa Clara County Fire District	14700 Winchester Blvd	1.58	--	--		Generator		2022 Dataset
1500	108828	Central Fire Protection District	14700 Winchester Blvd	0.21	--	--		Gas Dispensing Facility		2022 Dataset. BAAQMD Records Request. CARB Screening Tool

Project MEI

Distance Adjustment Multiplier	Adjusted Cancer Risk Estimate	Adjusted Hazard Risk	Adjusted PM2.5
0.04	0.12	0.001	#VALUE!
0.04	0.06	#VALUE!	#VALUE!
NA	0.02	0.01	--

Footnotes:

1. Maximally exposed individual

2. These Cancer Risk, Hazard Index, and PM2.5 columns represent the values in the Google Earth Plant Information Table.
3. Each plant may have multiple permits and sources.
4. Permitted sources include diesel back-up generators, gas stations, dry cleaners, boilers, printers, auto spray booths, etc.
5. Fuel codes: 98 = diesel, 189 = Natural Gas.
6. If a Health Risk Screening Assessment (HRSA) was completed for the source, the application number will be listed here.

8. Engineer who completed the HRSA. For District purposes only.
9. All HRSA completed before 1/5/2010 need to be multiplied by an age sensitivity factor of 1.7.
10. The HRSA "Chronic Health" number represents the Hazard Index.
11. Further information about common sources:
    a. Sources that only include diesel internal combustion engines can be adjusted using the BAAQMD's Diesel Multiplier worksheet.
    b. The risk from natural gas boilers used for space heating when <25 MM BTU/hr would have an estimated cancer risk of one in a million or less, and a chronic hazard index of 0.003 or
    c. BAAQMD Reg 11 Rule 16 required that all co-residential (sharing a wall, floor, ceiling or is in the same building as a residential unit) dry cleaners cease use of perc on July 1, 2010. Therefore, there is no cancer risk, hazard or PM2.5 concentrations from co-residential dry cleaning businesses in the BAAQMD.
    d. Non co-residential dry cleaners must phase out use of perc by Jan. 1, 2023. Therefore, the risk from these dry cleaners does not need to be factored in over a 70-year period, but instead should reflect
    e. Gas stations can be adjusted using BAAQMD's Gas Station Distance Mulitplier worksheet.
    f. Unless otherwise noted, exempt sources are considered insignificant. See BAAQMD Reg 2 Rule 1 for a list of exempt sources.
    g. This spray booth is considered to be insignificant.

Date last updated:
03/13/2018

Project Site

Distance from Receptor (feet) or MEI[1]	FACID (Plant No.)	Distance Adjustment Multiplier	Adjusted Cancer Risk Estimate	Adjusted Hazard Risk	Adjusted PM2.5
980	14537	0.04	0.12	0.001	#VALUE!
925	19819	0.04	0.06	#VALUE!	#VALUE!
925	108828	NA	0.04	0.0300	--

Screening Report

Area of Interest (AOI) Information

Area : 7,447,516.53 ft²

Sep 4 2024 10:25:54 Pacific Daylight Time

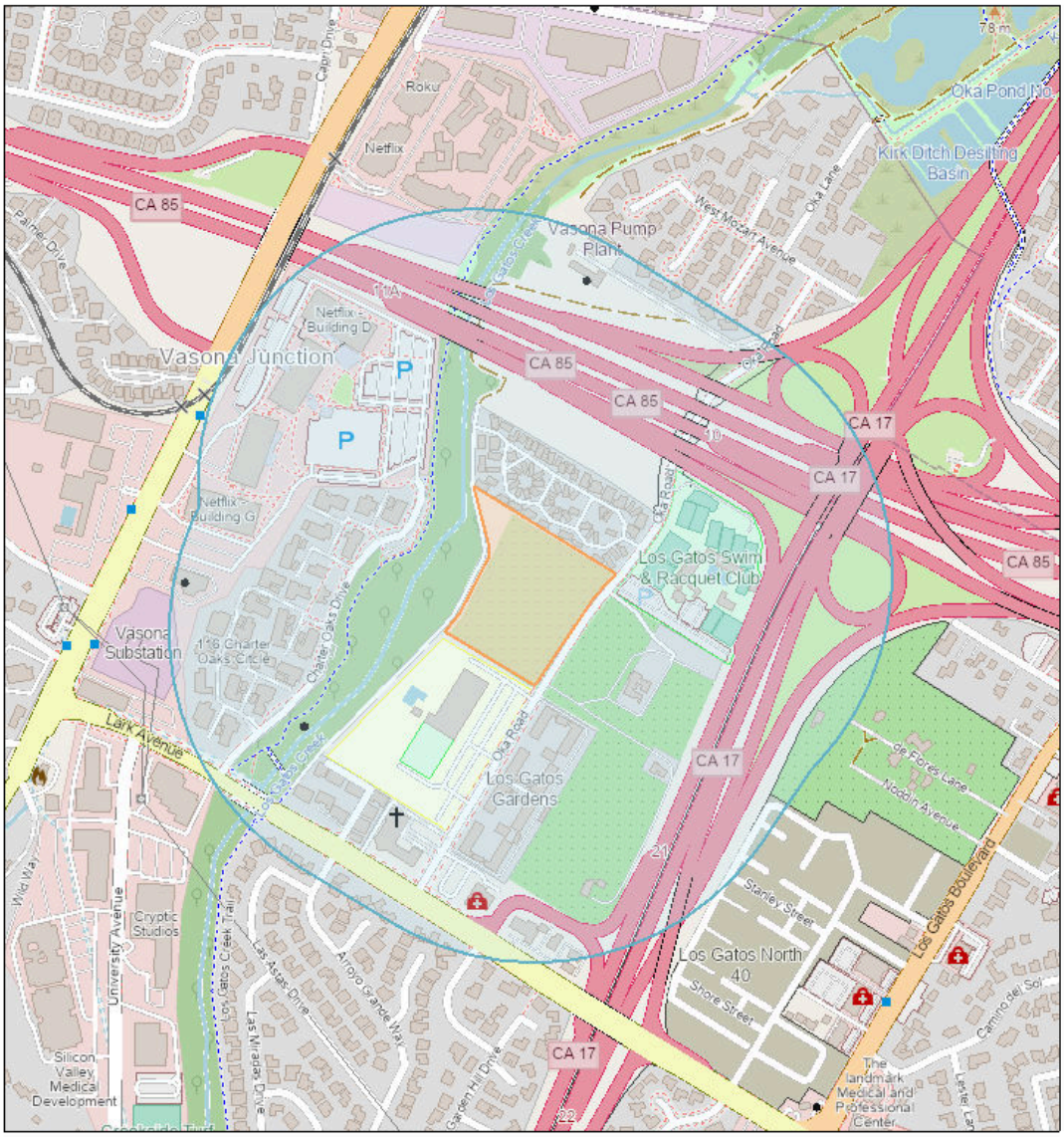


*Figure not OCR compatible.

- Permitted Stationary Sources

1:9,028

0 0.05 0.1 0.2 mi

0 0.07 0.15 0.3 km

Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri

Summary

Name	Count	Area(ft²)	Length(ft)
Permitted Stationary Sources	3	N/A	N/A

Permitted Stationary Sources

#	Address	Cancer_Ris	Chronic_Ha	City	County
1	14545 Oka Road	2.98	0.02	Los Gatos	Santa Clara
2	14700 Winchester Blvd	1.58	0.00	Los Gatos	Santa Clara
3	14700 Winchester Blvd	0.21	0.00	Los Gatos	Santa Clara

#	Details	Facility_I	Facility_N	Latitude	Longitude
1	Generator	14537	Santa Clara Valley Water District-Vasona	37.26	-121.96
2	Generator	19819	Santa Clara County Fire District	37.25	-121.96
3	Gas Dispensing Facility	108828-1	Central Fire Protection District	37.25	-121.97

#	NAICS	NAICS_Indu	NAICS_Sect	NAICS_Subs	PM25
1	221310	Water Supply and Irrigation Systems	Utilities	Utilities	0.00
2	922160	Fire Protection	Public Administration	Justice, Public Order, and Safety Activities	0.00
3	922160	Fire Protection	Public Administration	Justice, Public Order, and Safety Activities	0.00

#	State	Zip	Count
1	CA	95032	1
2	CA	95032	1
3	CA	95032	1

NOTE: A larger buffer than 1,000 may be warranted depending on proximity to significant sources.

2022 CARB & CAPCOA Gasoline Service Station Industrywide Risk Assessment Look-up Tool
Version 1.0 - February 18, 2022

Required Value	User Defined Input	Instructions
Annual Throughput (gallons/year)	400000	Enter your gas station's annual throughput in gallons of gasoline dispensed per year.
Hourly Dispensing Throughput (gallons/hour)	500	The tool will calculate the maximum hourly vehicle fueling throughput based on annual throughput as defined by Table 10 of the 2020 Gasoline Service Station Industrywide Risk Assessment Technical Guidance Document (Technical Guidance). If a different value is desired please enter it into cell L4.
Hourly Loading Throughput (gallons/hour)	8800	The tool will calculate the maximum hourly loading throughput based on annual throughput as defined by Table 10 of the Technical Guidance. If a different value is desired please enter it into cell L5.
Meteorological Data	San Jose	Select appropriate meteorological data. Met sets provided include 2 rural (Redding and Lancaster) and 4 urban (Fresno, Ontario, San Diego, and San Jose) locations. Use whichever best correlates to your location. If you would like to use site-specific meteorological data please refer to the Variable Met Tool.
Distance to Nearest Resident (meters)	455	Enter the distance to the nearest residential receptor in meters as measured from the edge of the station canopy. Please note that the value must be between 10 and 1000 meters. The distance you input will round down to the nearest receptor distance used in the Technical Guidance (e.g., 19m will return value at 10m distance).
Distance to Nearest Business (meters)	455	Enter the distance to the nearest worker receptor in meters as measured from the edge of the station canopy. Please note that the value must be between 10 and 1000 meters. The distance you input will round down to the nearest receptor distance used in the Technical Guidance (e.g., 19m will return value at 10m distance).
Distance to Acute Receptor (meters)	455	Enter the distance where acute impacts are expected in meters as measured from the edge of the station canopy. This can be the distance to the property boundary, nearest resident, nearest worker, or any other user defined location. Please note that the value must be between 10 and 1000 meters. The distance you input will round down to the nearest receptor distance used in the Technical Guidance (e.g., 19m will return value at 10m distance).
Control Scenario	EVR Phase I & EVR Phase II	Select the appropriate control scenario for your gas station. Please refer to technical Guidance for an explanation of the different control scenarios. Almost all gas stations in California are equipped with EVR Phase I and EVR Phase II controls.
Include Building Downwash Adjustments	yes	Building downwash may over estimate risk results. High results should be investigated further through site-specific health risk assessment.

Risk Value	Results
Max Residential Cancer Risk (chances/million)	0.02
Max Worker Cancer Risk (chances/million)	0.00
Chronic HI	0.00
Acute HI	0.01

2022 CARB & CAPCOA Gasoline Service Station Industrywide Risk Assessment Look-up Tool
Version 1.0 - February 18, 2022

Required Value	User Defined Input	Instructions
Annual Throughput (gallons/year)	400000	Enter your gas station's annual throughput in gallons of gasoline dispensed per year.
Hourly Dispensing Throughput (gallons/hour)	500	The tool will calculate the maximum hourly vehicle fueling throughput based on annual throughput as defined by Table 10 of the 2020 Gasoline Service Station Industrywide Risk Assessment Technical Guidance Document (Technical Guidance). If a different value is desired please enter it into cell L4.
Hourly Loading Throughput (gallons/hour)	8800	The tool will calculate the maximum hourly loading throughput based on annual throughput as defined by Table 10 of the Technical Guidance. If a different value is desired please enter it into cell L5.
Meteorological Data	San Jose	Select appropriate meteorological data. Met sets provided include 2 rural (Redding and Lancaster) and 4 urban (Fresno, Ontario, San Diego, and San Jose) locations. Use whichever best correlates to your location. If you would like to use site-specific meteorological data please refer to the Variable Met Tool.
Distance to Nearest Resident (meters)	280	Enter the distance to the nearest residential receptor in meters as measured from the edge of the station canopy. Please note that the value must be between 10 and 1000 meters. The distance you input will round down to the nearest receptor distance used in the Technical Guidance (e.g., 19m will return value at 10m distance).
Distance to Nearest Business (meters)	280	Enter the distance to the nearest worker receptor in meters as measured from the edge of the station canopy. Please note that the value must be between 10 and 1000 meters. The distance you input will round down to the nearest receptor distance used in the Technical Guidance (e.g., 19m will return value at 10m distance).
Distance to Acute Receptor (meters)	280	Enter the distance where acute impacts are expected in meters as measured from the edge of the station canopy. This can be the distance to the property boundary, nearest resident, nearest worker, or any other user defined location. Please note that the value must be between 10 and 1000 meters. The distance you input will round down to the nearest receptor distance used in the Technical Guidance (e.g., 19m will return value at 10m distance).
Control Scenario	EVR Phase I & EVR Phase II	Select the appropriate control scenario for your gas station. Please refer to technical Guidance for an explanation of the different control scenarios. Almost all gas stations in California are equipped with EVR Phase I and EVR Phase II controls.
Include Building Downwash Adjustments	yes	Building downwash may over estimate risk results. High results should be investigated further through site-specific health risk assessment.
Risk Value	**Results**	
Max Residential Cancer Risk (chances/million)	0.04	
Max Worker Cancer Risk (chances/million)	0.00	
Chronic HI	0.00	
Acute HI	0.03	

APPENDIX C

TRANSPORTATION ANALYSIS

HEXAGON TRANSPORTATION CONSULTANTS, INC.

Oka Road Townhomes

Transportation Analysis

Prepared for:

Town of Los Gatos

May 5, 2025

Hexagon Transportation Consultants, Inc.
Hexagon Office: 100 Century Center Court, Suite 501
San Jose, CA 95112
Phone: 408.971.6100
Hexagon Job Number: 24OZ18
Client Name: Lisa Ring

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Executive Summary

This report presents the results of the transportation analysis (TA) conducted for the proposed townhome development located at 14789 Oka Road in Los Gatos, California. The project site (APN: 424-08-074) is located on the west side of Oka Road north of Lark Avenue, with the Bonnie View mobile home park to the north and the Addison-Penzak Jewish Community Center to the south. The project would redevelop the existing agricultural uses on-site with 138 townhome units with two new access streets intersecting Oka Road.

The potential impacts of the project were evaluated in accordance with the standards and methodologies set forth by the Town of Los Gatos and the Santa Clara Valley Transportation Authority (VTA)'s Congestion Management Program (CMP). Based on the Town of Los Gatos's Transportation Analysis Guidelines, the TA report for the project includes a Vehicle Miles Traveled (VMT) analysis and a local transportation analysis (LTA). The purpose of the VMT analysis is to identify the transportation impacts of the project under the California Environmental Quality Act (CEQA). The LTA supplements the CEQA VMT analysis by identifying transportation operational issues via an evaluation of weekday AM and PM peak-hour traffic conditions for 8 intersections in the vicinity of the project site. The LTA also includes an analysis of site access, on-site circulation, parking, and effects to transit, bicycle, and pedestrian access.

VMT Analysis

Hexagon obtained and ran the latest VTA model for the 2020 base year. To isolate the project trips and VMT generated by the project, a separate TAZ was added to the model's transportation network where the project is located. The project's 138 multi-family housing units were added to the model's land use database. A model run for the project was performed, and the VMT per resident was calculated. The project TAZ, with a population of 347 residents, generated 7,844 daily VMT, resulting in **22.6** VMT per service population. The service population for the project TAZ is the number of residents of the project. The 2020 base year VMT was calculated from a model run by dividing the daily VMT generated by all development within the Town (1,651,854 miles) by the service population: (36,948 population + 19,324 jobs = 56,272) = **29.4**.

Project Impact: The threshold of significance is 100%-11.3% = 88.7% of the Town's Daily VMT per service population, or 0.887 * 29.4 = 26.1. Since the VMT / service population for the project TAZ is 22.6, which is less than 26.1, the project would not have a significant VMT impact.

Project Effect: The Countywide total boundary daily VMT is approximately 37,244,566 miles. The project would add approximately 7,844 VMT, equating to approximately a 0.0211% increase in countywide VMT. Since the increase in VMT is less than 6.5% of baseline conditions, the project would not have a significant impact.

Project Trip Estimates

Based on the trip generation rates published in the Institute of Transportation Engineers' (ITE) *Trip Generation Manual*, 11th Edition, and applicable reductions, the proposed project would generate a total of 994 daily trips, with 66 trips (17 inbound and 49 outbound) occurring during the AM peak hour and 79 trips (47 inbound and 32 outbound) occurring during the PM peak hour.

Intersection Traffic Operations

Based on the Town of Los Gatos intersection operations analysis criteria, the added project trips would not cause adverse operational effects at any of the study intersections.

Other Transportation Issues

The proposed site plan shows adequate site access and on-site circulation, and no adverse traffic operational issues are expected to occur at the project driveways. The project would not have an adverse effect on the existing pedestrian or bicycle facilities in the study area. Hexagon has the following recommendations resulting from the site access, circulation, and parking evaluations.

Recommendations

- Red curb equal to at least one car length should be striped adjacent to both sides of each new project access street along Oka Road.
- The project applicant should discuss with Town staff to determine whether the proposed number of guest parking spaces is adequate
- The applicant should discuss with Town staff to determine whether short-term bicycle parking spaces should be provided.

Since the project is a Builder's Remedy project, the applicant is requesting a waiver from the guest parking requirement and the short-term bicycle parking requirement.

1. Introduction

This report presents the results of the transportation analysis (TA) conducted for the proposed townhome development located at 14789 Oka Road in Los Gatos, California. The project site (APN: 424-08-074) is located on the west side of Oka Road north of Lark Avenue, with the Bonnie View mobile home park to the north and the Addison-Penzak Jewish Community Center to the south (see Figure 1). The project would redevelop the existing agricultural uses on-site with 138 townhome units and two new access streets along Oka Road. The project site plan is shown on Figure 2.

Scope of Study

This study was conducted for the purpose of identifying the potential transportation impacts of the project with respect to both the California Environmental Quality Act (CEQA) and Los Gatos policies. All new development projects within Los Gatos are required to evaluate the effects of development on the transportation system using the vehicle miles traveled (VMT) metric for the purpose of evaluating transportation impacts per CEQA requirements. The Town also requires a local transportation analysis (LTA) that evaluates potential transportation effects of the project in accordance with the standards and methodologies set forth by the Town and the Santa Clara Valley Transportation Authority (VTA). The VTA administers the County Congestion Management Program (CMP).

Vehicle Miles Traveled

The Town of Los Gatos completed a VMT analysis as part of its General Plan EIR. The Town can make use of CEQA Statue & Guidelines Section 15183 to streamline project-specific CEQA analysis for developments that are consistent with the General Plan and other Town documents.

The project site is located in an area designated as Low Density Residential in the General Plan. The project proposes to change the designation to multi-family residential. Therefore, the project is inconsistent with the VMT analysis conducted for the General Plan EIR, and a VMT analysis is required for the project.



Figure 1
Site Location and Study Intersections

NORTH
Not to Scale



Figure 2
Site Plan

*Figure not OCR compatible.

NORTH
Not to Scale

Local Transportation Analysis

The LTA component of the TA includes an intersection operational analysis to evaluate traffic operational effects of the project on key intersections in the vicinity of the site. Eight study intersections, as listed below, were selected in accordance with VTA's *Transportation Impact Analysis (TIA) Guidelines* (October 2014) and in consultation with Los Gatos staff (see Figure 1). One study intersection is designated as a CMP intersection.

1. Winchester Boulevard and Lark Avenue
2. University Avenue and Lark Avenue
3. Mill Road/Arroyo Grande Way and Lark Avenue (unsignalized)
4. Oka Road and Lark Avenue
5. Southbound Highway 17 Ramps/Garden Hill Drive and Lark Avenue
6. Northbound Highway 17 Ramps and Lark Avenue
7. Turner Street/Highland Oaks Drive and Lark Avenue (unsignalized)
8. Los Gatos Boulevard and Lark Avenue (CMP)

Traffic conditions at the study intersections were analyzed for the weekday AM and PM peak hours. The weekday AM peak hour is generally between 7:00 and 9:00 AM and the weekday PM peak hour is typically between 4:00 and 6:00 PM. It is during these periods that the most congested traffic conditions occur on a typical weekday.

Intersection traffic conditions were evaluated for the following scenarios:

- ***Existing Conditions.*** Existing AM and PM peak-hour traffic volumes were obtained from new turning-movement counts conducted on November 28, 2023, (see Appendix A) and from the 2018 CMP monitoring report.
- ***Existing Plus Project Conditions.*** Existing plus project traffic volumes were estimated by adding to the existing traffic volumes the additional traffic generated by the project. Existing plus project conditions were evaluated relative to existing conditions to determine potential adverse project effects.
- ***Background Conditions*****.** Background traffic volumes were estimated by adding to existing peak-hour volumes the projected volumes from approved but not yet completed developments in the vicinity of the project. A list of approved but not yet constructed developments was obtained from the Town of Los Gatos (Appendix B).
- ***Background Plus Project Conditions.*** Background plus project traffic volumes were estimated by adding to background traffic volumes the additional traffic generated by the project. Background plus project conditions were evaluated relative to background conditions to determine potential adverse project effects.
- ***Cumulative No Project Conditions.*** Cumulative conditions represent future traffic volumes on the planned roadway network that would result from traffic growth projected to occur due to the approved developments and other proposed but not yet approved (pending) developments in the study area. The added traffic from pending developments was based on the list of pending projects provided by the Town of Los Gatos (Appendix B).
- ***Cumulative Plus Project Conditions.*** Cumulative plus project traffic volumes were estimated by adding the new traffic generated by the project.

The LTA also includes a review of site access and on-site circulation, an evaluation of potential effects to transit, bicycle, and pedestrian facilities, and a parking analysis.

Intersection Operations Analysis Methodology

This section presents the methods used to determine the traffic conditions at the study intersections. It includes descriptions of the data requirements, the analysis methodologies, and the applicable intersection level of service standards.

Data Requirements

The data required for the analysis were obtained from existing traffic counts, the Town of Los Gatos, the 2018 CMP Annual Monitoring Report, and field observations. The following data were collected from these sources:

- Existing traffic volumes
- Lane configurations
- Signal timing and phasing
- Lists of approved and pending developments.

Level of Service Analysis Methodology and Standards

Traffic conditions at the study intersections were evaluated using level of service (LOS). *Level of Service* is a qualitative description of operating conditions ranging from LOS A, or free-flow conditions with little or no delay, to LOS F, or jammed conditions with excessive delays. The analysis methods are described below.

All study intersections, including the CMP intersection, were evaluated against the Town's standard.

Signalized Intersections

The Town of Los Gatos evaluates level of service at signalized intersections based on the 2000 *Highway Capacity Manual (HCM)* level of service methodology using TRAFFIX software. This HCM method evaluates signalized intersection operations on the basis of average control delay time for all vehicles at the intersection. The correlation between average delay and level of service is shown in Table 1.

This study utilizes TRAFFIX software to determine intersection levels of service based on the 2000 HCM methodology. Since TRAFFIX is approved by VTA as the level of service analysis software for CMP signalized intersections, the Town employs the CMP defaults values for the analysis parameters. TRAFFIX software was used to analyze intersection operations and intersection adverse effects based on the increases in critical-movement delay and the volume-to-capacity ratio (v/c) between no-project and project scenarios.

The Town of Los Gatos has established LOS D as the minimum acceptable intersection operations standard for all signalized intersections, including the CMP study intersection of Los Gatos Boulevard and Lark Avenue.

Unsignalized Intersections

Level of service analysis at unsignalized intersections is generally used to determine the need for modification in the type of intersection control (i.e., all-way stop or signalization). As part of the evaluation, traffic volumes, delays and traffic signal warrants are evaluated to determine if the existing intersection control is appropriate.

For side street stop-controlled intersections (two-way or T-intersections), operations are defined by the average control delay experienced by vehicles entering the intersection from the stop-controlled approaches on minor streets or from left-turn approaches on major streets. The level of service is

reported based on the average delay for the worst approach. The level of service definitions for unsignalized intersections are shown on Table 2. This study utilizes the TRAFFIX software to determine intersection levels of service based on the *2000 HCM* methodology for unsignalized intersections.

The Town of Los Gatos does not have an adopted level of service standard for unsignalized intersections. However, the Town strives to maintain LOS D for unsignalized intersections.

Table 1
Signalized Intersection Level of Service Definitions Based on Control Delay

Level of Service	Description	Average Control Delay Per Vehicle (sec.)
A	Signal progression is extremely favorable. Most vehicles arrive during the green phase and do not stop at all. Short cycle lengths may also contribute to the very low vehicle delay.	10.0 or less
B+ B B-	Operations characterized by good signal progression and/or short cycle lengths. More vehicles stop than with LOS A, causing higher levels of average vehicle delay.	10.1 to 12.0 12.1 to 18.0 18.1 to 20.0
C+ C C-	Higher delays may result from fair signal progression and/or longer cycle lengths. Individual cycle failures may begin to appear at this level. The number of vehicles stopping is significant, though may still pass through the intersection without stopping.	20.1 to 23.0 23.1 to 32.0 32.1 to 35.0
D+ D D-	The influence of congestion becomes more noticeable. Longer delays may result from some combination of unfavorable signal progression, long cycle lenghts, or high volume-to-capacity (V/C) ratios. Many vehicles stop and individual cycle failures are noticeable.	35.1 to 39.0 39.1 to 51.0 51.1 to 55.0
E+ E E-	This is considered to be the limit of acceptable delay. These high delay values generally indicate poor signal progression, long cycle lengths, and high volume-to-capacity (V/C) ratios. Individual cycle failures occur frequently.	55.1 to 60.0 60.1 to 75.0 75.1 to 80.0
F	This level of delay is considered unacceptable by most drivers. This condition often occurs with oversaturation, that is, when arrival flow rates exceed the capacity of the intersection. Poor progression and long cycle lengths may also be major contributing causes of such delay levels.	greater than 80.0

Source: Transportation Research Board, *2000 Highway Capacity Manual* (Washington, D.C., 2000) p10-16.
VTA Traffic Level of Service Analysis Guidelines (June 2003), Table 2.

Table 2
Unsignalized Intersection Level of Service Definitions Based on Average Delay

Level of Service	Description	Average Delay Per Vehicle (Sec.)
A	Little or no traffic delay	10.0 or less
B	Short traffic delays	10.1 to 15.0
C	Average traffic delays	15.1 to 25.0
D	Long traffic delays	25.1 to 35.0
E	Very long traffic delays	35.1 to 50.0
F	Extreme traffic delays	greater than 50.0

Source: Transportation Research Board, *2000 Highway Capacity Manual* (Washington, D.C., 2000) p17-2.

Definition of Adverse Intersection Operational Effects

Adverse operational effects on the study intersections are based on the Town's *Transportation Analysis (TA) Guidelines* and the VTA's *TIA Guidelines*.

Signalized Intersections

According to the Town of Los Gatos, a project is said to create an adverse effect at a signalized intersection if for either peak hour, either of the following conditions occurs:

1. The level of service at the intersection degrades more than one level overall or at the worst individual approach delay if it is at LOS A, B, or C, or
2. The level of service at the intersection drops at all overall or at the worst individual approach delay if it is at LOS D or below.

Unsignalized Intersections

A project is said to create an adverse operational effect on traffic conditions at an unsignalized intersection in the Town of Los Gatos if for either peak hour:

1. The addition of project traffic causes the average intersection delay for all-way stop controlled or the worst movement/approach for side-street stop-controlled intersections to degrade to LOS E or F, and
2. The intersection meets the Caltrans signal warrant criteria.

Signal Warrants

The level of service analysis at unsignalized intersections is supplemented with an assessment of the need for signalization of the intersection. The need for signalization of unsignalized intersections is assessed based on the Peak Hour Volume Warrant (Warrant 3) described in the *California Manual on Uniform Traffic Control Devices for Streets and Highways (CA MUTCD)*, Part 4, Highway Traffic Signals, 2014. This method makes no evaluation of the intersection level of service but simply provides an indication of whether vehicular peak hour traffic volumes are, or would be, sufficient to justify the

installation of a traffic signal. The decision to install a traffic signal should not be based purely on the warrants alone. Instead, the installation of a signal should be considered, and further analysis performed when one or more of the warrants are met. Additionally, engineering judgment is exercised on a case-by-case basis to evaluate the effect a traffic signal will have on certain types of collisions and traffic conditions at the subject intersection as well as at adjacent intersections. Intersections that meet the peak hour warrant are subject to further analysis before determining that a traffic signal is necessary. Other options, such as traffic control devices, signage, or geometric changes, may be preferable based on existing field conditions.

Intersection Vehicle Queuing Analysis

The analysis of intersection operations is typically supplemented with a vehicle queuing analysis at study intersections where the project would add a substantial number of vehicle trips to the left-turn movements or stop-controlled approaches. The analysis provides a basis for estimating future left-turn pocket storage requirements at the study intersections and is presented for informational purposes only, since the Town of Los Gatos has not defined a policy related to queuing. Vehicle queues were estimated using a Poisson probability distribution, which estimates the probability of "n" vehicles for a vehicle movement using the following formula:

$$P(x=n) = \frac{\lambda^n e^{-(\lambda)}}{n!}$$

Where:

P (x=n) = probability of "n" vehicles in queue per lane
n = number of vehicles in the queue per lane
λ = average # of vehicles in the queue per lane (vehicles per hr per lane/signal cycles per hr)

The basis of the analysis is as follows: (1) the Poisson probability distribution is used to estimate the 95th percentile queue (herein referred to as the maximum queue) for a particular left-turn movement; (2) the estimated maximum number of vehicles in the queue is translated into a queue length, assuming 25 feet per vehicle; and (3) the estimated maximum queue length is compared to the existing or planned available storage capacity for the left-turn movement. This analysis thus provides a basis for estimating future turn pocket storage requirements at intersections.

For signalized intersections, the 95th percentile queue length value indicates that during the peak hour, a queue of this length or less would occur on 95 percent of the signal cycles. A queue length larger than the 95th percentile queue would only occur on 5 percent of the signal cycles (about 3 cycles during the peak hour for a signal with a 60-second cycle length). Thus, turn pocket storage designs based on the 95th percentile queue length would ensure that storage space would be exceeded only 5 percent of the time for a signalized movement.

Report Organization

This report has a total of five chapters. Chapter 2 describes existing conditions including the existing roadway network, transit service, and bicycle and pedestrian facilities. Chapter 3 presents the CEQA transportation analysis. Chapter 4 presents the vehicle operational analysis including the method by which project traffic is estimated and the project's traffic effects on the intersection operations. Chapter 5 presents the analyses of other transportation-related issues, including site access and on-site circulation, potential effects on bicycle, pedestrian, and transit facilities, and parking.

2. Existing Transportation Conditions

This chapter describes existing conditions for transportation facilities in the project area including the roadway network, transit services, pedestrian and bicycle facilities.

Existing Roadway Network

Regional roadway access to the project site is provided via SR-17 and SR-85. These facilities are described below.

SR-17 is a six-lane freeway in the vicinity of the site. It extends south to Santa Cruz and north to I-280 in San Jose, at which point it makes a transition into I-880 to Oakland. Access to the site from SR 17 is provided via its interchange with Lark Avenue.

SR-85 is a six-lane freeway (two mixed-flow lanes and one high occupancy vehicle (HOV) lane in each direction) in the vicinity of the site. It extends from its starting point at US-101 in South San Jose westward and northward to Mountain View, where it ends as it again merges with US-101. Access to the project site is provided via its interchanges with Winchester Boulevard and Los Gatos Boulevard.

Major roadway access to the site is provided via Lark Avenue and Oka Road. Other notable roadways in the project vicinity include Los Gatos Boulevard and Winchester Boulevard. These facilities are described below.

Lark Avenue is a four-lane arterial that runs in the east-west direction. Lark Avenue extends from Winchester Boulevard in the west to Los Gatos Boulevard in the east. Lark Avenue has a center median with left-turn pockets at intersections. Lark Avenue includes sidewalks on both sides of the street in the project vicinity. The posted speed limit is 30 miles per hour (mph). On-street parking is prohibited on both sides of the street in the project vicinity. Lark Avenue has striped bike lanes on both sides of the roadway. Lark Avenue provides access to the project site via Oka Road.

Oka Road is a two-lane street that runs in the north-south direction. Oka Road extends from Lark Avenue in the south to its terminus at Mozart Avenue in the north. The posted speed limit is 25 miles per hour (mph). On-street parking is prohibited on both sides of the street in the project vicinity. On-street parking is allowed on both sides of the street south of the project site. Oka Road has striped bike lanes, south of the project site. Oka Road would provide access to the project site via two new access roads.

Los Gatos Boulevard is a six-lane arterial that runs in the north-south direction. Los Gatos Boulevard transitions from Bascom Avenue in the north at the SR 85 southbound ramps and extends southward to Jackson Street, where it transitions into Main Street. Los Gatos Boulevard has bike lanes between Lark

Avenue and Loma Alta Avenue. Los Gatos Boulevard provides access to the project site via Lark Avenue and Oka Road.

Winchester Boulevard is a two-to-four-lane arterial that runs in the north-south direction. Winchester Boulevard extends through the cities of Campbell, San Jose, and Santa Clara in the north and extends southward to Blossom Hill Road, where it transitions into Santa Cruz Avenue. Winchester Boulevard has bike lanes south of Albright Drive. Winchester Boulevard provides access to the project site via Lark Avenue and Oka Road.

Existing Pedestrian Facilities

Pedestrian facilities consist of sidewalks, crosswalks, and pedestrian signals at signalized intersections. In the vicinity of the project site, sidewalks are present along both sides of Oka Road, south of the project site. Sidewalks are not present along the project frontage and north of the project site along Oka Road. Sidewalks are present on most of the remaining roadways in the project vicinity.

In the project vicinity, crosswalks with pedestrian signal heads and push buttons are provided along the north and west legs of the Oka Road/Lark Avenue intersection, the north and south legs of the Southbound Highway 17 Ramps/Lark Avenue intersection, and the north, south, and east legs of the Northbound Highway 17 Ramps/Lark Avenue intersection. Continuous sidewalks and ADA-compliant curb ramps are provided along the north side of Lark Avenue, from Winchester Boulevard to Los Gatos Boulevard, providing a full network of pedestrian facilities from the project site to nearby points of interest along Los Gatos Boulevard.

Existing Bicycle Facilities

The bicycle facilities that exist and are proposed within the vicinity of the project site (see Figure 3) include bike paths (Class I bikeway), striped bike lanes (Class II bikeway), signed bike routes (Class III bikeway), and protected bike lanes (Class IV bikeway). Bike paths are shared between pedestrians and bicyclists and separated from motor vehicle traffic. Bike lanes are striped preferential lanes on the roadway for one-way bicycle travel. Some bicycle lanes include a striped buffer on one or both sides to increase separation from the traffic lane or from parked cars. Bike routes are typically designated only with signage or with painted shared lane markings (sharrows) on a road that indicate to motorists that bicyclists may use the full travel lane. Protected bike lanes are protected by physical barriers such as flexible bollards, raised curb, parking, or planter boxes.

Within the project vicinity, the Los Gatos Creek Trail exists parallel to State Route 17, with an entry point on Lark Avenue, near Charter Oaks Drive.

Overall, the site is well-served with bicycle facilities. Existing bike lanes are located on:

- Lark Avenue for the entire street,
- Los Gatos Boulevard south of Lark Avenue,
- University Avenue, between Blossom Hill Road and Farley Road,
- Winchester Boulevard, north of Wimbledon Drive,
- Existing class IV bikeways on Winchester Boulevard, from Blossom Hill Road to Wimbledon Drive
- Oka Road, south of the project site

The Los Gatos Bicycle and Pedestrian Master Plan, adopted in March 2017, lists several proposed bicycle facilities in the project vicinity. The Master Plan was updated in 2020. The proposed facilities are as follows:

- Class IV bike path on Lark Avenue
- Class I bike path along Vasona Reservoir
- Class IV bike path on Los Gatos Boulevard between SR 85 and Shannon Road
- Sharrows and Class III bike route on University Avenue between Main Street and Lark Avenue, where Class II bike lanes do not exist
-

Existing Transit Services

Existing transit service to the study area is provided by the VTA. Route 27 serves the project area and travels between Winchester Station and Kaiser San Jose. The bus stop closest to the project site is located on Winchester Boulevard, approximately ½-mile walking distance away. Bus stops on the same route are also available along Los Gatos Boulevard. Route 27 has headways of approximately 30 minutes on weekdays.

Existing Intersection Lane Configurations

The existing lane configurations at the study intersections were determined by observations in the field and are shown on Figure 4.

Existing Traffic Volumes

Existing AM and PM peak-hour traffic volumes (see Figure 5) were obtained from new traffic counts in November 2023 and from the 2018 CMP Annual Monitoring Report for the PM peak-hour volume at the Los Gatos Boulevard/Lark Avenue intersection. Traffic volumes for all traffic scenarios are tabulated in Appendix C.



Figure 3
Existing and Proposed Bicycle Facilities

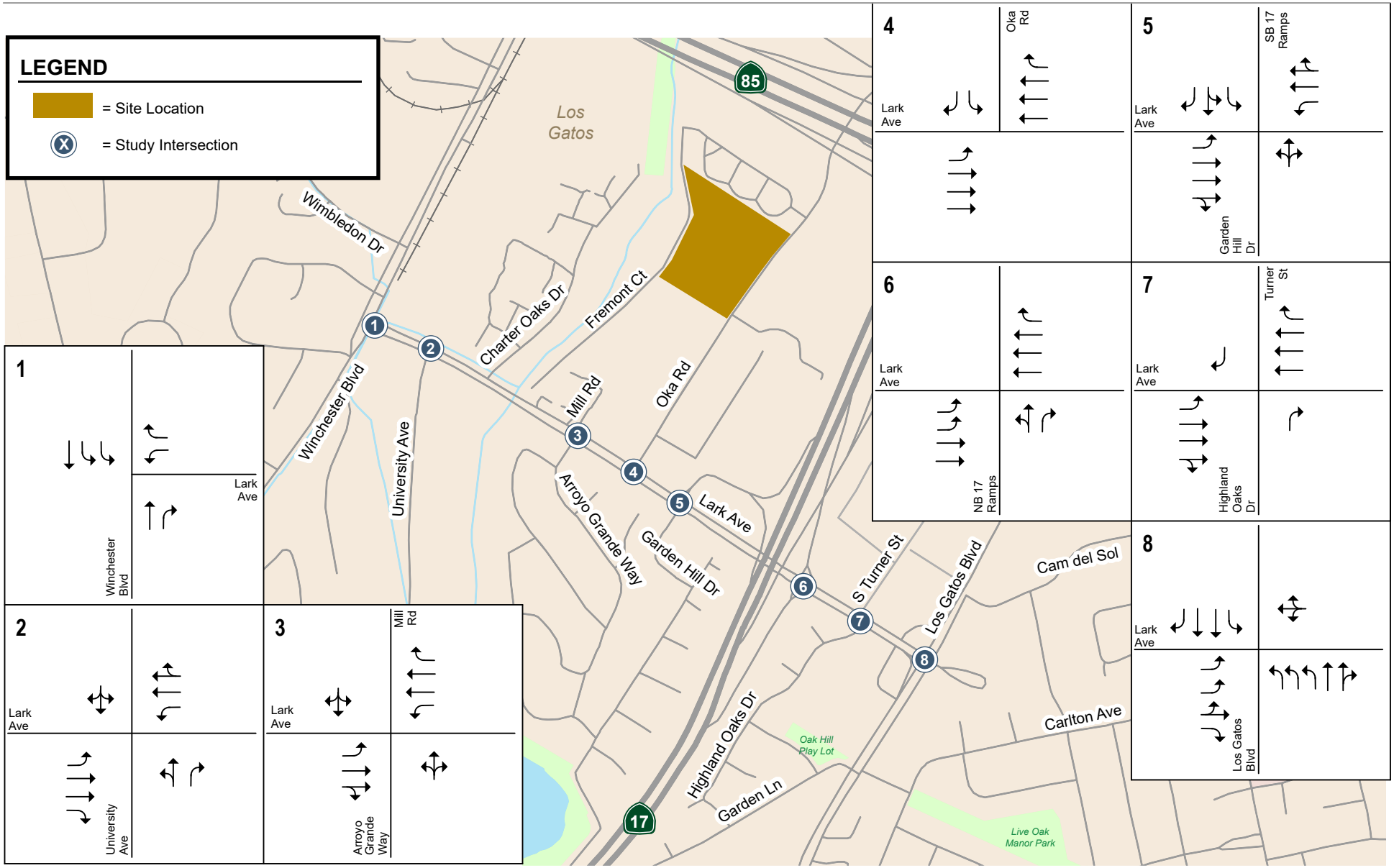


Figure 4
Existing Lane Configurations

NORTH
Not to Scale

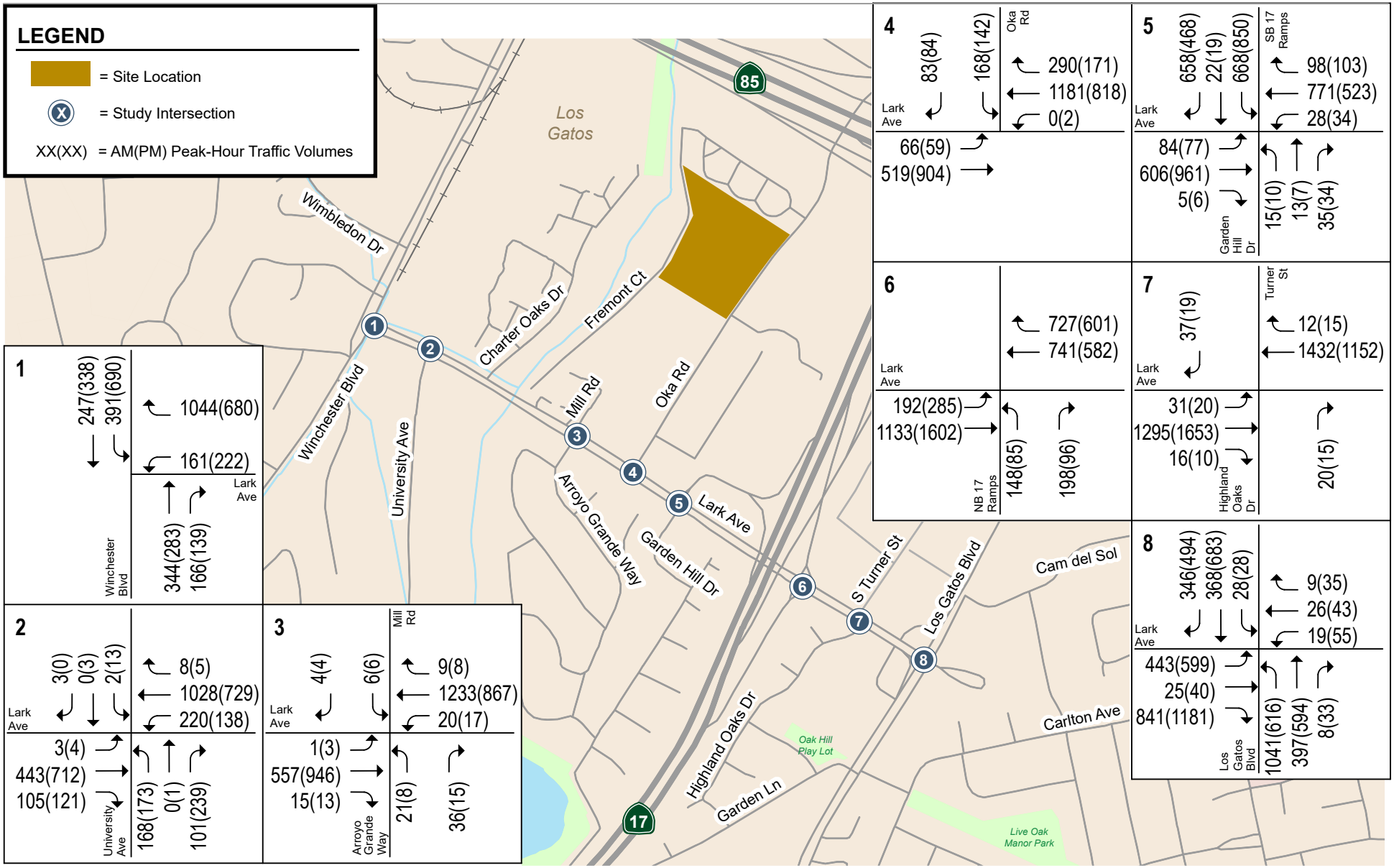


Figure 5
Existing Traffic Volume

NORTH
Not to Scale

3. CEQA Transportation Analysis

This chapter provides an evaluation of the proposed project's effect on Vehicle Miles Traveled (VMT). Pursuant to Senate Bill (SB) 743, the California Environmental Quality Act (CEQA) 2019 Update Guidelines Section 15064.3, subdivision (b) states that VMT will be the metric in analyzing transportation impacts for land use projects for CEQA purposes.

The Town of Los Gatos completed a VMT analysis as part of its General Plan EIR. The Town makes use of CEQA Statue & Guidelines Section 15183 to streamline project-specific CEQA analysis for projects that are consistent with its General Plan and other Town documents. When a project is not consistent with the General Plan, a complete VMT analysis for that land use plan should be conducted.

The project site is located in an area designated as Low Density Residential in the General Plan, and the project proposes to change the designation to multi-family residential. Since the project is not consistent with the General Plan, the project is required to complete a VMT analysis using the most recent VTA Travel Model to determine if there would be a significant VMT impact.

VMT Evaluation Methodology

The evaluation of the project's effects on VMT was completed using the Valley Transportation Authority (*VTA's) Travel Demand Model.* The county-wide Travel Demand Model (TDM) utilizes Regional (Bay Area), County, and City-specific demographics, including local-level household and job allocations, to estimate project-generated VMT. The reported VMT for residential uses, such as the proposed project, utilizes average VMT per capita (resident) for home-based work trips. The use of the average VMT per capita metric is consistent with the guidance of the Governor's Office of Planning and Research (OPR) Technical Advisory on Evaluating Transportation Impacts in CEQA, December 2018.

VMT Policies and Impact Criteria

The Town Council adopted Resolution 2020-045, Designating the Use of Vehicle Miles Traveled as the Metric for Conducting Transportation Analyses pursuant to the California Environmental Quality Act and Establishing the Thresholds of Significance to Comply with California Senate Bill 743. The thresholds balance the Town's priorities with respect to competing objectives, including Los Gatos's geographic and transportation context, greenhouse gas reduction goals, interest in achieving the state's greenhouse gas reduction goals, and the latest General Plan goals and policies related to land use mix, economic development, and housing provision. VMT analyses shall evaluate a project's VMT impacts based on the thresholds established in the latest Council-adopted resolution.

Consistent with State CEQA Guidelines Section 150643, the Town of Los Gatos has adopted the following thresholds of significance to guide in determining when a land use project will have a significant transportation impact.

- Project Impact: A significant impact would occur if the total VMT per service population for the project would exceed a level of 11.3% below the total VMT per service population for the Town of Los Gatos baseline conditions.
- Project Effect: A significant impact would occur if the project increases total (boundary) County-wide VMT by 6.5% compared to baseline conditions.

VMT Evaluation

Hexagon obtained and ran the latest VTA model for the 2020 base year. To isolate the project trips and VMT generated by the project, a separate TAZ was added to the model's transportation network where the project is located. The project's 138 multi-family housing units were added to the model's land use database. A model run for the project was performed, and the VMT per resident was calculated. The project TAZ, with a population of 347 residents, generated 7,844 daily VMT, resulting in **22.6** VMT per service population. The service population for the project TAZ is the number of residents of the project. The 2020 base year VMT was calculated from a model run by dividing the daily VMT generated by the Town's land uses (1,651,854 miles) by the service population: (36,948 population + 19,324 jobs = 56,272) = **29.4**.

Project Impact: The threshold of significance is 100%-11.3% = 88.7% of the Town's Daily VMT per service population, or 0.887 * 29.4 = 26.1. Since the VMT / service population for the project TAZ is 22.6, which is less than 26.1, the project would not have a significant project impact.

Project Effect: The Countywide total boundary VMT is approximately 37,244,566 miles. The project would add 7,844 VMT, equating to a 0.0211% increase in countywide VMT. Since the increase in VMT is less than 6.5% of baseline conditions, the project would not have a significant impact.

4.
Intersection Operations Analysis

This chapter presents the intersection operations analysis including the method by which project traffic is estimated, the results of intersection level of service analysis, any adverse effects to intersection level of service caused by the project, and an intersection vehicle queuing analysis. A potential adverse effect on a study intersection is not considered a CEQA impact.

Project Trip Estimates

The magnitude of traffic produced by a new development and the locations where that traffic would appear are estimated using a three-step process: (1) trip generation, (2) trip distribution, and (3) trip assignment. In determining project trip generation, the magnitude of traffic entering and exiting the site is estimated for the AM and PM peak hours. As part of the project trip distribution, the directions to and from which the project trips would travel are estimated. In the project trip assignment, the project trips are assigned to specific streets and intersections. These procedures are described below.

Trip Generation

Trip generation rates resulting from new development proposed within the Town of Los Gatos typically are estimated using trip rates published in the Institute of Transportation Engineers' (ITE) *Trip Generation Manual*, 11th Edition. Trips that would be generated by the proposed development were estimated using the ITE trip rates for "Single-Family Attached Housing" (Land Use 215).

Project Trips

Based on the trip generation rates published in the Institute of Transportation Engineers' (ITE) *Trip Generation Manual*, 11th Edition, and applicable reductions, the proposed project would generate a total of 994 daily trips, with 66 trips (17 inbound and 49 outbound) occurring during the AM peak hour and 79 new trips (47 inbound and 32 outbound) occurring during the PM peak hour (see Table 3).

Table 3
Project Trip Generation Estimates

			Daily		AM Peak Hour				PM Peak Hour			
			Trip		Trip	Trips			Trip	Trips		
Land Use	Size		Rate	Trips	Rate	In	Out	Total	Rate	In	Out	Total
Townhome[1]	138	units	7.20	994	0.48	17	49	66	0.57	47	32	79

1. Single Family Attached (Land Use 215): fitted curve equation trip rates in trips per unit. Source: *ITE Trip Generation Manual, 11th Edition.*

Trip Distribution and Assignment

The trip distribution pattern for the project trips was estimated based on the surrounding roadway network and the locations of complementary land uses (see Figure 6). The peak-hour vehicle trips generated by the project were assigned to the roadway network in accordance with the trip distribution patterns (see Figure 7).

Roadway Network

The roadway network under background, cumulative, and project conditions is assumed to be the same as under existing conditions.

Traffic Volumes

Existing Plus Project Traffic Volumes

Project trips were added to existing traffic volumes to obtain existing plus project traffic volumes (see Figure 8).

Background Traffic Volumes

Background AM and PM peak-hour traffic volumes were estimated by adding to existing traffic volumes the trips generated by nearby approved but not yet completed or occupied projects (see Figure 9). The Town of Los Gatos provided a list of approved and pending developments. Additionally, approved and pending project trips from the Cities of San Jose and Campbell were obtained. Hexagon considered both the location and size of the approved and pending developments to eliminate those that were too far away or too small to affect traffic conditions at the selected study intersections. Background conditions reflect the additional traffic generated upon the completion of all Phase I developments in the North 40 Specific Plan area. The Phase I development was approved for 83 cottage cluster homes (semi-detached), 187 multi-family units, 50 senior apartment units, and 57,500 s.f. of commercial/retail. Most of the Phase I development has already been constructed and occupied. Trips associated with the unsold and unbuilt portion of the Phase I development (as of April 2024) were added under the background scenario.

The approved and pending projects assumed as part of the analysis are listed in Appendix B. Detailed trips at each study intersection from approved and pending projects are tabulated in Appendix C.

Background Plus Project Traffic Volumes

Project trips were added to background traffic volumes to obtain background plus project traffic volumes (see Figure 10).

Cumulative Traffic Volumes

Traffic volumes under cumulative no project conditions (see Figure 11) were estimated by adding the trips from proposed but not yet approved (pending) developments to the background traffic volumes. The approved and pending projects assumed as part of the analysis are listed in Appendix B. Detailed trips at each study intersection from approved and pending projects are tabulated in Appendix C.

Cumulative Plus Project Traffic Volumes

Project trips were added to cumulative traffic volumes to obtain cumulative plus project traffic volumes (see Figure 12).

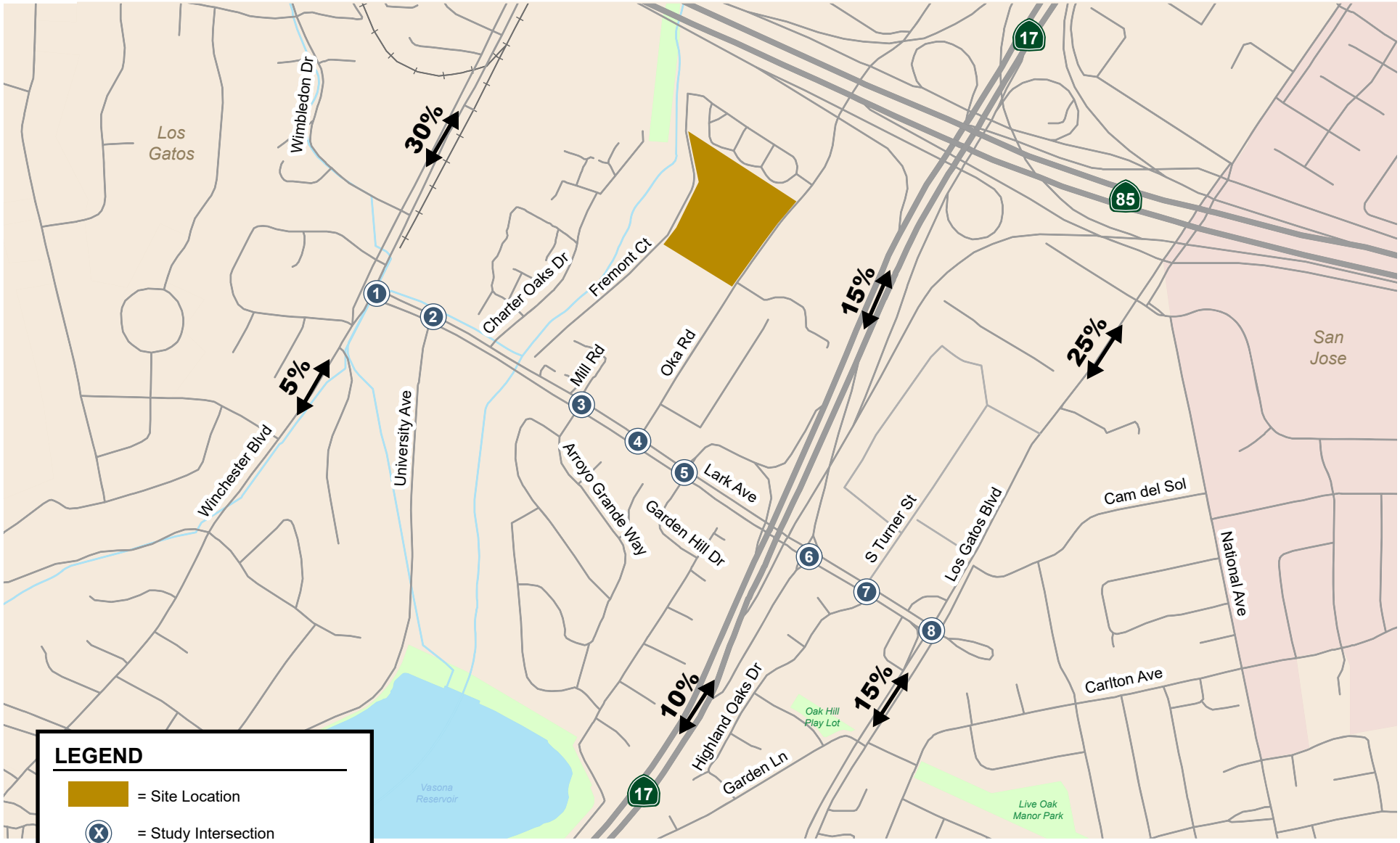


Figure 6
Project Trip Distribution

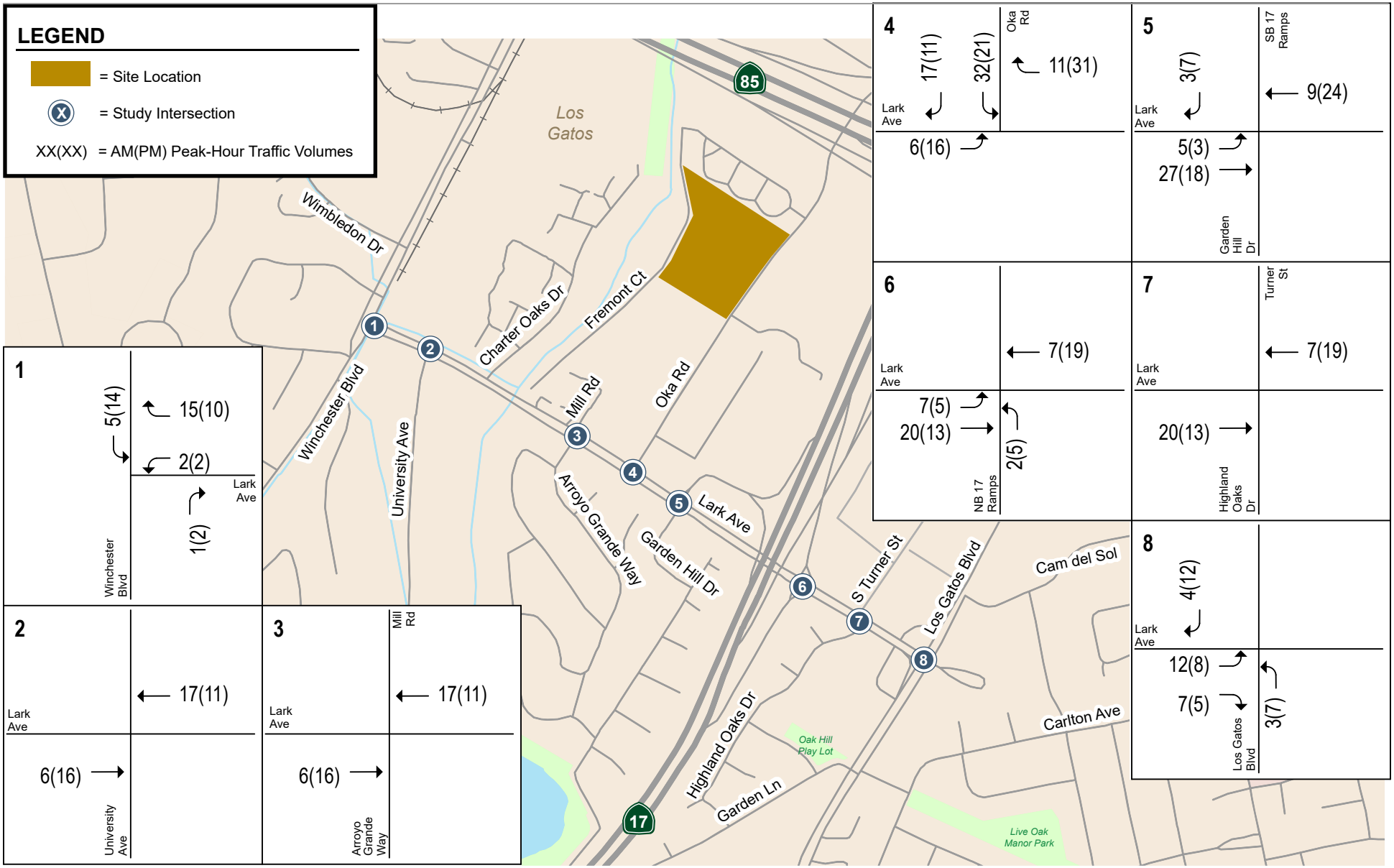


Figure 7
Project Trip Assignment

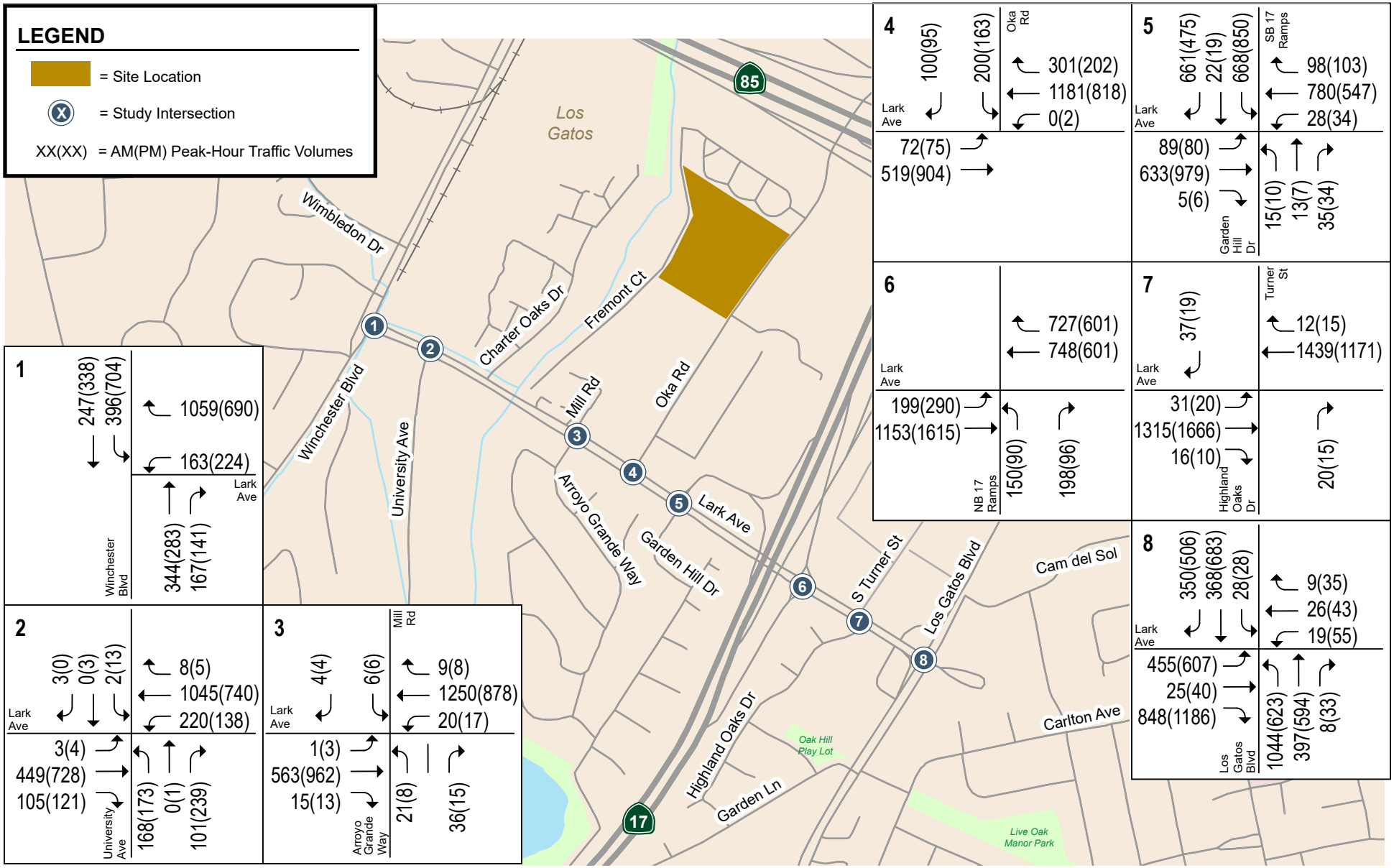


Figure 8
Existing Plus Project Volumes

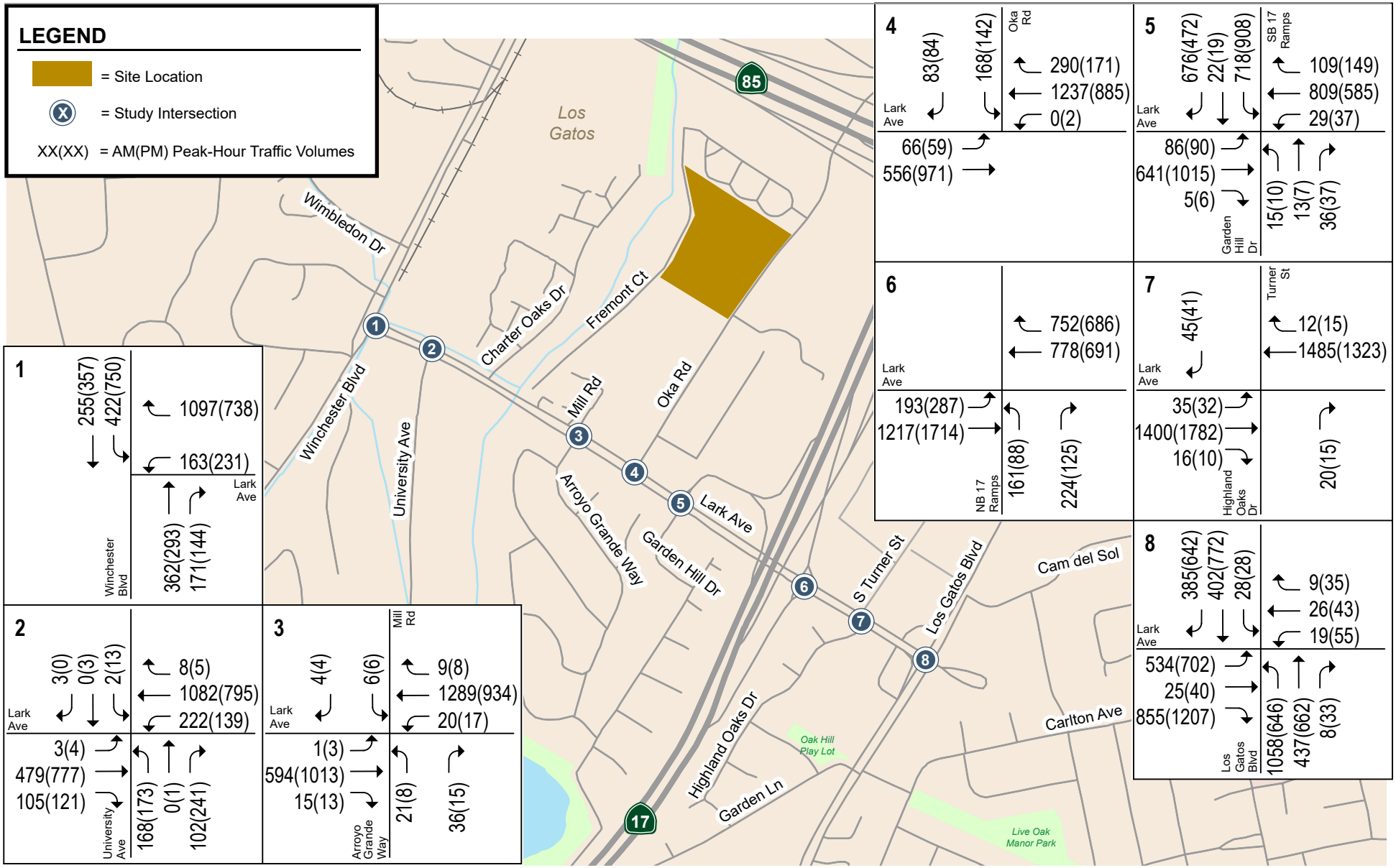


Figure 9
Background Traffic Volumes

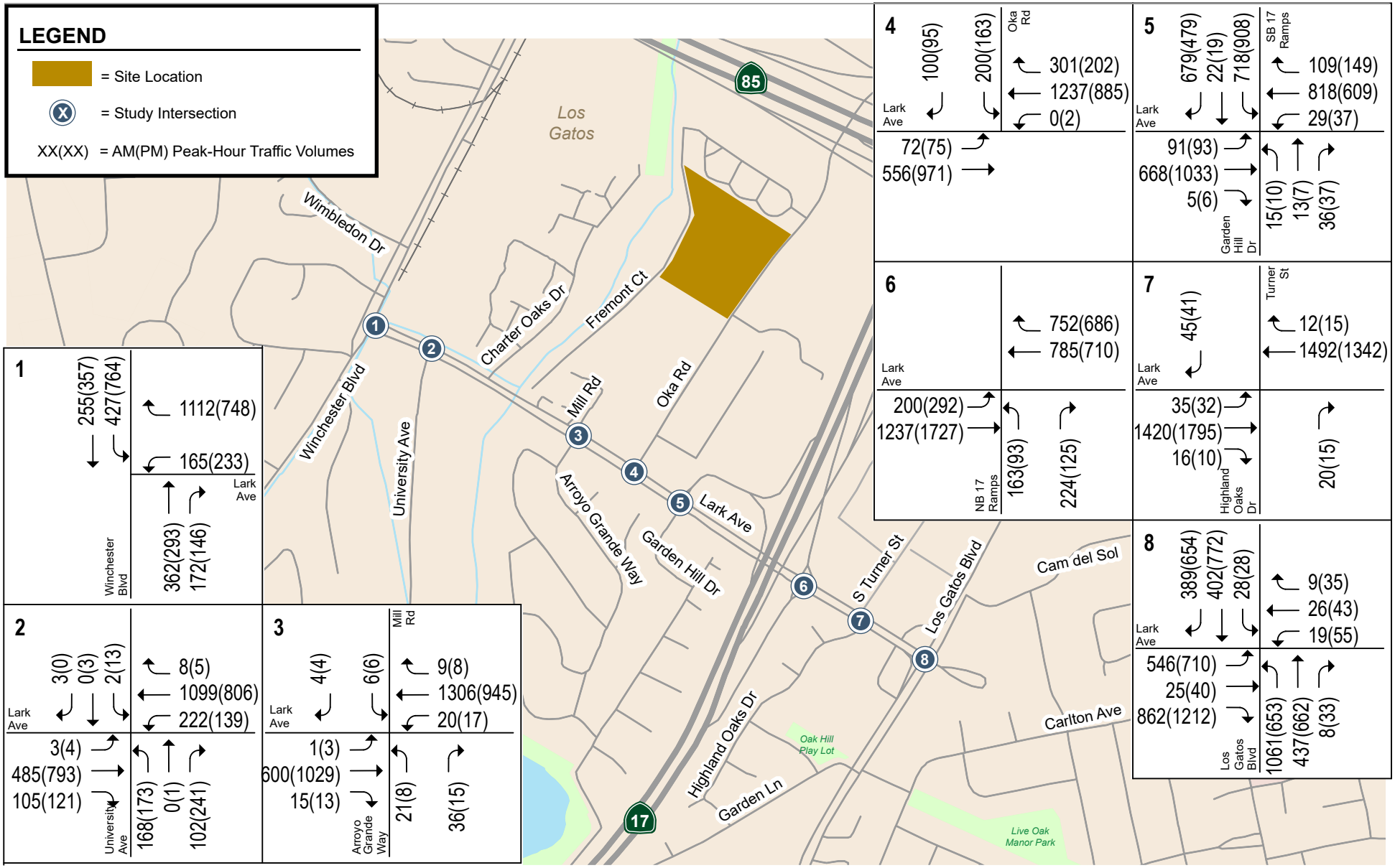


Figure 10
Background Plus Project Traffic Volumes

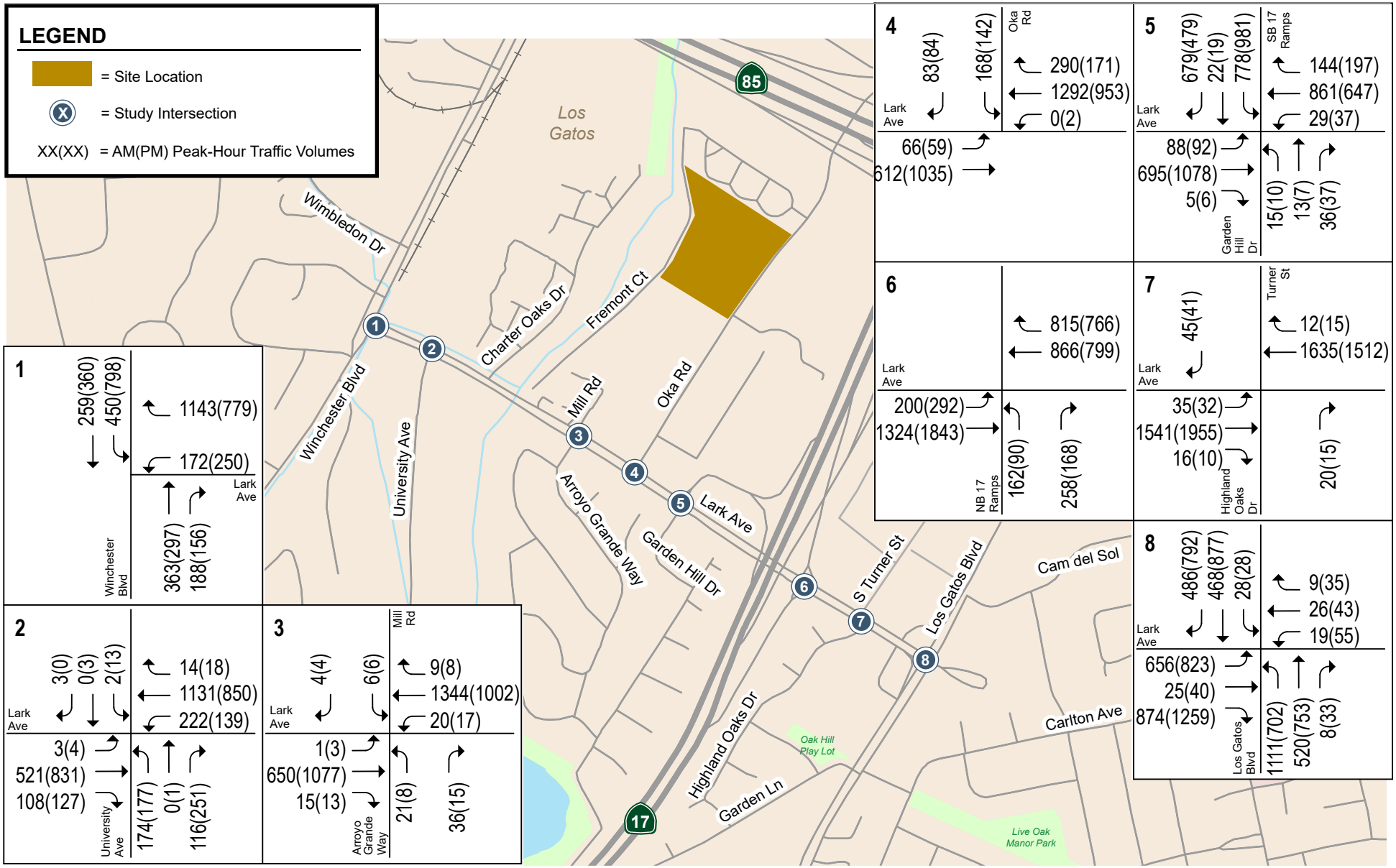


Figure 11
Cumulative Traffic Volumes

NORTH
Not to Scale

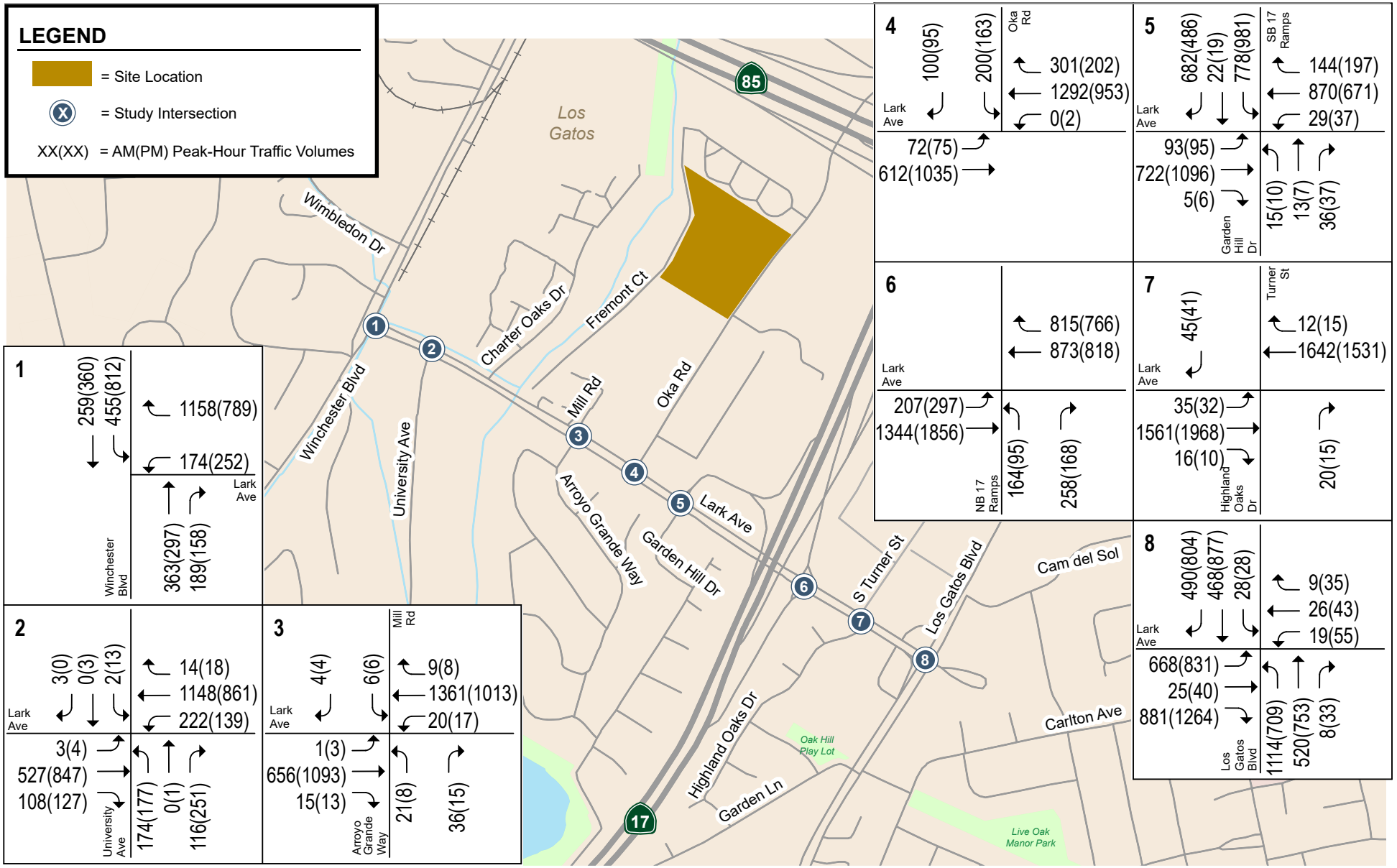


Figure 12
Cumulative Plus Project Traffic Volumes

Intersection Levels of Service

The results of the existing and existing plus project intersection level of service analysis are shown in Table 4. The results of the background and background plus project intersection levels of service analysis are shown in Table 5. The results of the cumulative and cumulative plus project levels of service analysis are shown in Table 6. The detailed intersection level of service calculation sheets for all study scenarios are included in Appendix D.

The Mill Road/Arroyo Grande Way & Lark Avenue intersection would operate at a substandard level of service under existing conditions (AM peak hour), background conditions (AM and PM peak hours), and cumulative conditions (AM and PM peak hours). The basis for two-way (or one-way) stop-controlled intersection is the worst leg delay. The southbound movement from Mill Road (minor street approach) would experience the highest delays. The project would not add any trips to the minor street approach. The project would add 23 trips in the AM peak hour and 27 trips in the PM peak hour to the major through movement (along Lark Avenue) only. The minor street approaches (Mill Road and Arroyo Grande Way) at the location do not meet the minimum signal-warrant threshold of 100 vehicles per hour under any scenario. Therefore, it can be concluded that the intersection would not meet the peak-hour signal warrant. Since the intersection would not meet the peak-hour signal warrant under any scenario, with or without the project, the project would not cause an adverse effect at this intersection.

Table 4
Existing Plus Project Intersection Level of Service

Study #	Intersection	Peak Hour	Existing Conditions					
			No Project		With Project			
			Avg. Delay (sec)	LOS	Avg. Delay (sec)	LOS	Incr. in Crit. Delay (sec)	Incr. in Crit. V/C
1	Winchester Avenue & Lark Avenue	AM	18.3	B	18.4	B	0.1	0.003
		PM	19.5	B	19.6	B	0.0	0.006
2	University Avenue & Lark Avenue	AM	21.1	C	21.0	C	0.0	0.005
		PM	24.2	C	24.1	C	0.0	0.005
3	Mill Road/Arroyo Grande Way & Lark Avenue[1]	AM	**41.1**	**E**	**42.4**	**E**	0.0	0.004
		PM	30.7	D	31.6	D	0.0	0.003
4	Oka Road & Lark Avenue	AM	11.8	B	13.2	B	1.4	0.024
		PM	18.3	B	19.0	B	0.6	0.014
5	Southbound Highway 17 Ramps/Garden Hill Drive & Lark Avenue	AM	30.3	C	30.4	C	0.3	0.006
		PM	30.8	C	30.8	C	0.4	0.009
6	Northbound Highway 17 Ramps & Lark Avenue	AM	16.6	B	16.7	B	0.2	0.002
		PM	11.9	B	12.0	B	0.1	0.007
7	Turner Street/Highland Oaks Drive & Lark Avenue[1]	AM	13.1	B	13.1	B	0.0	0.000
		PM	12.7	B	12.8	B	0.0	0.001
8	Los Gatos Bouelvard and Lark Avenue (CMP)	AM	28.2	C	28.3	C	0.1	0.004
		PM	31.0	C	31.1	C	0.1	0.004

Note:
[1] denotes a two-way stop controlled intersection. The average delay for the worst leg is shown.
Bold indicates a substandard level of service.
Bold indicates an adverse effect.

Table 5
Background Plus Project Intersections Levels of Service

Study #	Intersection	Peak Hour	Background Conditions					
			No Project		With Project			
			Avg. Delay (sec)	LOS	Avg. Delay (sec)	LOS	Incr. in Crit. Delay (sec)	Incr. in Crit. V/C
1	Winchester Avenue & Lark Avenue	AM	18.4	B	18.5	B	0.1	0.0
		PM	19.8	B	19.9	B	0.0	0.0
2	University Avenue & Lark Avenue	AM	21.0	C	21.0	C	0.0	0.0
		PM	24.1	C	24.1	C	0.0	0.0
3	Mill Road/Arroyo Grande Way & Lark Avenue[1]	AM	**46.2**	**E**	**47.8**	**E**	0.0	0.0
		PM	**35.6**	**E**	**36.7**	**E**	0.0	0.0
4	Oka Road & Lark Avenue	AM	11.5	B	12.9	B	1.4	0.0
		PM	18.0	B	18.6	B	0.6	0.0
5	Southbound Highway 17 Ramps/Garden Hill Drive & Lark Avenue	AM	30.8	C	30.9	C	0.3	0.0
		PM	31.4	C	31.5	C	0.4	0.0
6	Northbound Highway 17 Ramps & Lark Avenue	AM	17.2	B	17.2	B	-0.1	0.0
		PM	12.7	B	12.7	B	-0.1	0.0
7	Turner Street/Highland Oaks Drive & Lark Avenue[1]	AM	13.6	B	13.6	B	0.0	0.0
		PM	13.3	B	13.3	B	0.0	0.0
8	Los Gatos Bouelvard and Lark Avenue (CMP)	AM	29.1	C	29.2	C	0.1	0.0
		PM	31.3	C	31.4	C	0.2	0.0

Note:
[1] denotes a two-way stop controlled intersection. The average delay for the worst leg is shown.
Bold indicates a substandard level of service.
Bold indicates an adverse effect.

Table 6
Cumulative Plus Project Intersections Levels of Service

Study #	Intersection	Peak Hour	Cumulative Conditions					
			No Project		With Project			
			Avg. Delay (sec)	LOS	Avg. Delay (sec)	LOS	Incr. in Crit. Delay (sec)	Incr. in Crit. V/C
1	Winchester Avenue & Lark Avenue	AM	18.8	B	18.8	B	0.0	0.0
		PM	20.5	C	20.6	C	0.1	0.0
2	University Avenue & Lark Avenue	AM	21.3	C	21.3	C	0.1	0.0
		PM	24.4	C	24.4	C	0.0	0.0
3	Mill Road/Arroyo Grande Way & Lark Avenue[1]	AM	**53.1**	**F**	**54.9**	**F**	0.0	0.0
		PM	**41.6**	**E**	**42.9**	**E**	0.0	0.0
4	Oka Road & Lark Avenue	AM	11.2	B	12.5	B	1.4	0.0
		PM	17.7	B	18.3	B	0.6	0.0
5	Southbound Highway 17 Ramps/Garden Hill Drive & Lark Avenue	AM	31.5	C	31.6	C	0.3	0.0
		PM	32.4	C	32.5	C	0.4	0.0
6	Northbound Highway 17 Ramps & Lark Avenue	AM	17.8	B	17.8	B	0.0	0.0
		PM	13.9	B	14.0	B	0.0	0.0
7	Turner Street/Highland Oaks Drive & Lark Avenue[1]	AM	14.9	B	15.0	B	0.0	0.0
		PM	14.1	B	14.1	B	0.0	0.0
8	Los Gatos Bouelvard and Lark Avenue (CMP)	AM	30.5	C	30.6	C	0.1	0.0
		PM	32.5	C	32.7	C	0.4	0.0

Note:
[1] denotes a two-way stop controlled intersection. The average delay for the worst leg is shown.
Bold indicates a substandard level of service.
Bold indicates an adverse effect.

Intersection Queuing Analysis

The analysis of intersection operations was supplemented with a vehicle queuing analysis for intersections where the project would add a substantial number of trips (10 or more) to the left-turn movements. This analysis provides a basis for estimating future storage requirements at the intersections under existing, background, cumulative, and project conditions. Vehicle queues were estimated using a Poisson probability distribution, described in Chapter 1. The following left-turn movements were evaluated, and the results of the queueing analysis are summarized in Table 7:

- Southbound Winchester Boulevard to Lark Avenue
- Eastbound Lark Avenue to Oka Road
- Eastbound Lark Avenue to Los Gatos Boulevard

The analysis shows that the existing turn pocket storage lengths are adequate.

Table 7
Queuing Analysis

	Winchester Boulevard & Lark Avenue		Oka Road & Lark Avenue		Los Gatos Boulevard & Lark Avenue	
	SBL		EBL		EBL	
	2 Lanes		1 Lane		3 Lanes[3]	
	AM	PM	AM	PM	AM	PM
Existing						
Cycle/Delay [1] (sec)	80	80	80	80	126	106
Volume (vphpl)	196	345	66	59	156	213
95th %. Queue (veh/ln.)	8	12	4	3	10	11
95th %. Queue (ft./ln) [2]	200	300	100	75	250	275
Storage (ft./ ln.)	350	350	125	125	350	350
Adequate (Y/N)	Y	Y	Y	Y	Y	Y
Existing Plus Project						
Cycle/Delay [1] (sec)	80	80	80	80	126	106
Volume (vphpl)	198	352	72	75	160	216
95th %. Queue (veh/ln.)	8	13	4	4	10	11
95th %. Queue (ft./ln) [2]	200	325	100	100	250	275
Storage (ft./ ln.)	350	350	125	125	350	350
Adequate (Y/N)	Y	Y	Y	Y	Y	Y
Background						
Cycle/Delay [1] (sec)	80	80	80	80	126	106
Volume (vphpl)	211	375	66	59	186	247
95th %. Queue (veh/ln.)	8	13	4	3	11	12
95th %. Queue (ft./ln) [2]	200	325	100	75	275	300
Storage (ft./ ln.)	350	350	125	125	350	350
Adequate (Y/N)	Y	Y	Y	Y	Y	Y
Background Plus Project						
Cycle/Delay [1] (sec)	80	80	80	80	126	106
Volume (vphpl)	214	382	72	75	190	250
95th %. Queue (veh/ln.)	9	14	4	4	11	12
95th %. Queue (ft./ln) [2]	225	350	100	100	275	300
Storage (ft./ ln.)	350	350	125	125	350	350
Adequate (Y/N)	Y	Y	Y	Y	Y	Y
Cumulative						
Cycle/Delay [1] (sec)	80	80	80	80	126	106
Volume (vphpl)	225	399	66	59	227	288
95th %. Queue (veh/ln.)	9	14	4	3	13	14
95th %. Queue (ft./ln) [2]	225	350	100	75	325	350
Storage (ft./ ln.)	350	350	125	125	350	350
Adequate (Y/N)	Y	Y	Y	Y	Y	Y
Cumulative Plus Project						
Cycle/Delay [1] (sec)	80	80	80	80	126	106
Volume (vphpl)	228	406	72	75	231	290
95th %. Queue (veh/ln.)	9	14	4	4	13	14
95th %. Queue (ft./ln) [2]	225	350	100	100	325	350
Storage (ft./ ln.)	350	350	125	125	350	350
Adequate (Y/N)	Y	Y	Y	Y	Y	Y

Notes:
NBL = northbound left movement, SBL = southbound left movement, EBL = eastbound left movement, WBL = westbound left movement.
[1] Vehicle queue calculations based on cycle length for signalized intersections.
[2] Assumes 25 Feet Per Vehicle Queued.
[3] Approach contains a shared through-left lane. Volume includes through lane traffic.

5.
Other Transportation Issues

This chapter presents other transportation issues associated with the project, including:

- Site access and circulation
- Effects on pedestrians, bicycles, and transit facilities
- Parking

The analyses in this chapter are based on professional judgment in accordance with the standards and methods employed by the traffic engineering community and Town of Los Gatos design guidelines.

Vehicular Site Access and On-Site Circulation

The site access and circulation evaluations are based on the site plan dated September 5, 2022 (see Figure 2 in Chapter 1). A site plan including proposed off-site improvements is shown on Figure 13. Site access was evaluated to determine the adequacy of the site's access roads with regard to the following: traffic volume, vehicle queues, geometric design, and stopping sight distance. On-site vehicular circulation and parking layout were reviewed in accordance with generally accepted traffic engineering standards and transportation planning principles.

Site Access

Site access would be provided via two new on-site roads intersecting Oka Road. The site plans shows both roads to measure 26 feet in width. The town's zoning code requires new subdivision streets to measure at least 24 feet in width if parking is prohibited on both sides (Section 29.10). The Santa Clara County Fire Department requires minimum 20-foot-wide access points and roadway width for fire access. The proposed 26-foot wide roads provide adequate width for ingress and egress.

Sight Distance at Project Entrances

The new road intersections were checked for adequate sight distance. Sight distance generally should be provided in accordance with Caltrans standards. The minimum acceptable sight distance is often considered the Caltrans stopping sight distance. Sight distance requirements vary depending on the roadway speeds. For Oka Road, which has a speed limit of 25 mph, the Caltrans stopping sight distance is 200 feet (based on a design speed of 30 mph). This means that a driver must be able to see 200 feet down Oka Road to locate a sufficient gap to turn out of the project entrances. This also gives drivers traveling along Oka Road adequate time to react to vehicles exiting the project site.

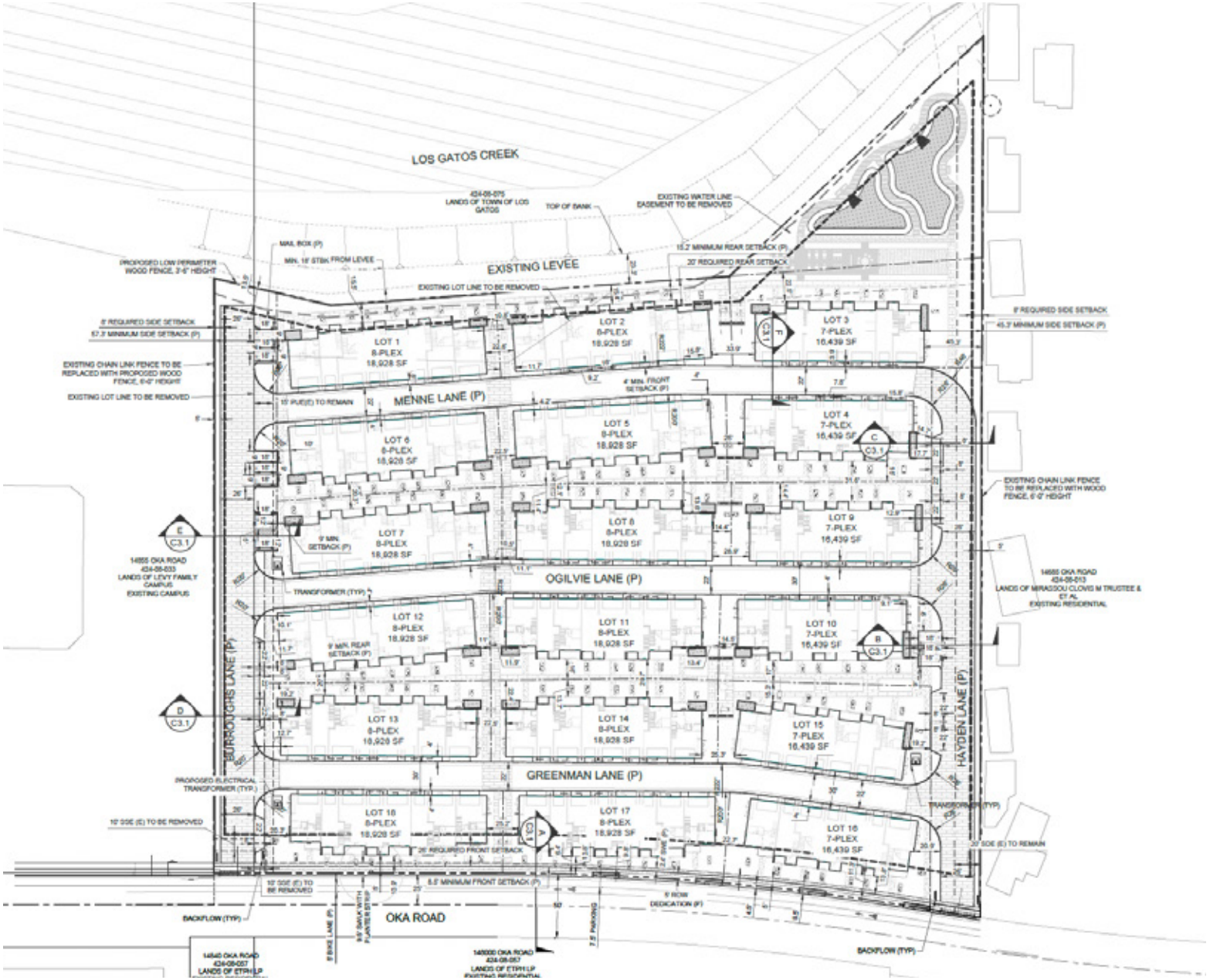


Figure 13
Site Plan

*Figure not OCR compatible.

NORTH
Not to Scale

There are no existing landscaping, roadway curvature, or other visual obstructions along the project frontages that would obscure sight distance at the project entrances. The site plan shows large trees that would be planted near the entrances. The trees should be maintained so that their canopies are maintained above 10 feet high so that the sight of exiting drivers is not obstructed.

The project frontage improvements would construct a curb and allow parking along Oka Road. Red curb equal to at least one car length should be striped adjacent to both sides of each entrance road along Oka Road to ensure exiting vehicles can see vehicles traveling along Oka Road and vice-versa.

The northern project access road accessible from Oka Road is opposite to a pair of driveways accessing the Los Gatos Swim and Racquet Club parking lot. Similarly, the southern project access road accessible from Oka Road is opposite to a driveway accessing a single-family home. Vehicles can easily see vehicles exiting the driveways from the opposing properties. The relatively small number of project trips would not cause any traffic operational issues and there is a clear line of sight from each project access road to driveways opposite of the proposed project roads.

The proposed northern project access road is located adjacent to some angled parking for the mobile home park to the north. Vehicles exiting the site are easily able to see any vehicles backing out of these spaces. Similarly, the southern project driveway access road is located adjacent to a driveway accessing the Jewish Community Center to the south. Vehicles exiting the site would be traveling at low speeds and vehicles from the adjacent properties would be able to see vehicles exiting the southern project access road.

Recommendation: Red curb equal to at least one car length should be striped adjacent to both sides of each project entrance road along Oka Road.

Traffic Operations at Project Entrances

The gross site-generated trips that are estimated to occur at the project entrances are 17 inbound trips and 49 outbound trips during the AM peak hour, and 47 inbound trips and 32 outbound trips during the PM peak hour. This equates to approximately one vehicle entering every 77 seconds and one vehicle exiting every 74 seconds. Due to the relatively low number of vehicles traveling along Oka Road, operational issues related to vehicle queueing and vehicle delay are not expected to occur at the project entrances.

On-Site Circulation

The project plans show main access roads would be 26 feet wide, and the cross streets would be 22 feet wide. This provides sufficient space to get in and out of the individual unit garages. The site plan shows one dead end area near the southwest corner of the site accessing three guest parking spaces. Due to the relatively short length of the dead-end aisle, it is assumed that most drivers would be able to see whether there are any spaces available before turning into the dead-end aisle. If a driver turns into the aisle and no spaces are available, they could easily back out onto the private street network, which carries low traffic volume.

Truck Access and Circulation

Trash trucks and emergency vehicles would use either entrance along Oka Road. Trash bins would be stored in each individual unit and need to be wheeled out to the street on garbage collection days. The Santa Clara County Fire Department requires minimum 20-foot-wide roadways and 46-foot-wide minimum turning radius. The proposed 22-foot wide internal streets provide adequate width for garbage collection vehicles, as well as fire access. Similarly, the proposed turning radii at internal street connections meet the requirements of the Santa Clara County Fire Department.

Parking

Vehicle Parking

The project would construct 138 townhomes on the project site. Parking for the townhomes would be provided in individual garages for each unit. The Town's zoning code requires two parking spaces for each single-family unit and one guest/visitor parking space for each residential unit. Each unit would have a two-car garage. The site plan shows 22 guest parking spaces provided through the parking site. Since the project is a Builder's Remedy project, the applicant is requesting a waiver from the guest parking requirement.

Recommendation: The project as proposed does not meet the Town's zoning code for guest parking spaces. The applicant should discuss with Town staff to determine whether the proposed number of guest parking spaces is adequate.

Bicycle Parking

The Town of Los Gatos requires residential development projects to provide one long-term bicycle parking space per unit and one short-term bicycle parking space per unit. Since the project proposes townhomes with individual garages, the town does not require the project to provide long-term bicycle parking. Residents could store bicycles in each individual garage. The project does not propose short-term bicycle parking. Since the project is a Builder's Remedy project, the applicant is requesting a waiver from the short-term bicycle parking requirement.

Recommendation: The project as proposed does not meet the Town's requirements for short-term parking spaces. The applicant should discuss with Town staff to determine whether short-term bicycle parking spaces should be provided.

Collision Analysis

Collision data in the study area for the last 10 years was reviewed for any unusual patterns. Collision data was taken from the Statewide Integrated Traffic Records System (SWITRS), which is a database that collects data gathered from a collision scene. Within the last 10 years, several collisions have occurred along Lark Avenue. All of the reported collisions along the Lark Avenue corridor in the last 10 years were isolated incidents at different locations, providing no indication of a pattern. It should be noted that there have been at least three collisions involving bicyclists. The recent bike lane installation along Lark Avenue is beneficial for increasing bicyclist safety along the Lark Avenue corridor.

Effects on Pedestrian and Bicycle Facilities

Sidewalks are present along both sides of Oka Road, south of the project site. The project would construct a new 5-foot-wide sidewalk with a planting strip, curb, on-street parking, and bike lane along its frontage that is consistent with the Oka Road frontage to the south.

The signalized intersection closest to the project site at Oka Road/Lark Avenue does not have a crosswalk along the east leg. However, since the project is located along the west side of Oka Road, pedestrians would be able to cross Lark Avenue conveniently. Any pedestrian trips generated by the proposed project would utilize the proposed sidewalk along the project frontage and the existing sidewalks along the west side of Oka Road.

The nearby intersections have ADA curb ramps. All crosswalks at the Southbound Highway 17 Ramp/Lark Avenue intersection, Oka Road/Lark Avenue intersection, and Northbound Highway 17 Ramp/Lark Avenue intersection have ADA curb ramps with truncated domes. ADA curb ramps are present at all intersections along the north side of Lark Avenue, providing a complete network of

sidewalks to transit and nearby points of interest along Winchester Boulevard and Los Gatos Boulevard. Truncated domes are the standard design requirement for detectable warnings which enable people with visual disabilities to determine the boundary between the sidewalk and the street.

Pedestrian Site Access

The sidewalks on the west side of Oka Road and the north side of Lark Avenue would provide pedestrian access to the site. The project would construct a 5-foot-wide sidewalk along its frontage that would connect to the existing sidewalk along Oka Road. The site plan shows a complete network of pedestrian walkways within the site, connecting each proposed residence to pedestrian facilities along Oka Road.

Bicycle Site Access

Class II striped bike lanes are present on Oka Road, south of the project site, Lark Avenue, Winchester Boulevard, and Los Gatos Boulevard, south of Lark Avenue. Striped bike lanes are present along Oka Road south of the project site, which connects the project site to other bicycle facilities along Lark Avenue. The project would construct a Class II bike lane along its frontage that would connect to existing bike lanes south of the project site. The existing bike lanes along Oka Road and Lark Avenue provide adequate access for bikes to reach the project site.

The Town's BPMP 2020 Update includes the following improvements:

- Upgrade existing Class II bike lanes on Lark Avenue to Class IV separated bike path
- Class I bike path along Vasona Reservoir
- Class IV bike path on Los Gatos Boulevard between SR 85 and Shannon Road
- Sharrows and Class III bike route on University Avenue between Main Street and Lark Avenue, where Class II bike lanes do not exist

Effects on Transit Services

The project site is served by Route 27 on Los Gatos Boulevard and Winchester Boulevard. The bus stop closest to the project site is located along Winchester Boulevard, near its intersection with Lark Avenue. Continuous sidewalks and crosswalks connect the project site to the nearest bus stops.

Based on the Town's average travel to work mode share, 1% of residents use public transit. Due to the small size of the project, the project is expected to generate at most one new rider for transit. Any increase in new transit riders from the proposed project could be accommodated by the currently available capacity of the bus services in the study area, and improvement of the existing transit service would not be necessary with the project.

Oka Road Townhomes Transportation Analysis

Technical Appendices

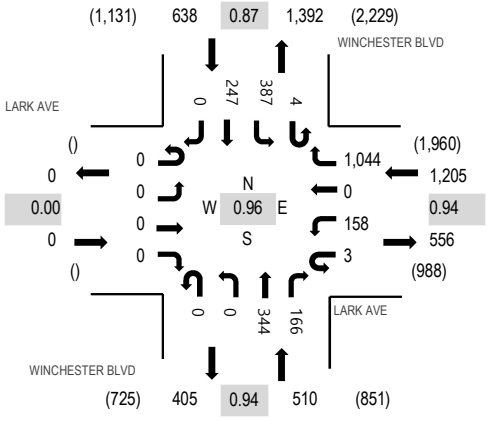
Appendix A

Traffic Counts

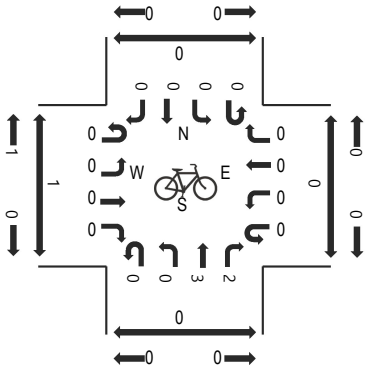
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 1 WINCHESTER BLVD & LARK AVE AM
Date: Tuesday, November 28, 2023
Peak Hour: 08:00 AM - 09:00 AM
Peak 15-Minutes: 08:15 AM - 08:30 AM

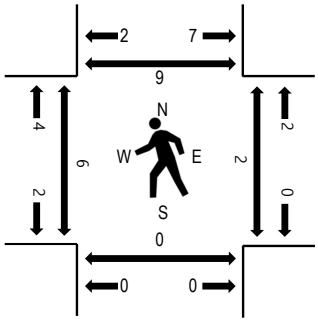
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

Traffic Counts - Motorized Vehicles

Interval Start Time	LARK AVE Eastbound				LARK AVE Westbound				WINCHESTER BLVD Northbound				WINCHESTER BLVD Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
7:00 AM	0	0	0	0	0	16	0	101	0	0	31	22	0	58	31	0	259	1,589	1	0	0	1
7:15 AM	0	0	0	0	0	32	0	120	0	0	51	22	0	56	37	0	318	1,895	2	0	0	0
7:30 AM	0	0	0	0	0	33	0	164	0	0	63	37	0	82	38	0	417	2,188	0	0	0	0
7:45 AM	0	0	0	0	0	55	0	234	0	0	73	42	0	113	78	0	595	2,337	0	1	0	0
8:00 AM	0	0	0	0	0	50	0	230	0	0	93	43	0	91	58	0	565	2,353	2	1	0	4
8:15 AM	0	0	0	0	0	43	0	275	0	0	97	36	2	95	63	0	611		0	0	0	1
8:30 AM	0	0	0	0	1	24	0	261	0	0	72	40	0	98	70	0	566		1	1	0	0
8:45 AM	0	0	0	0	2	41	0	278	0	0	82	47	2	103	56	0	611		3	0	0	4

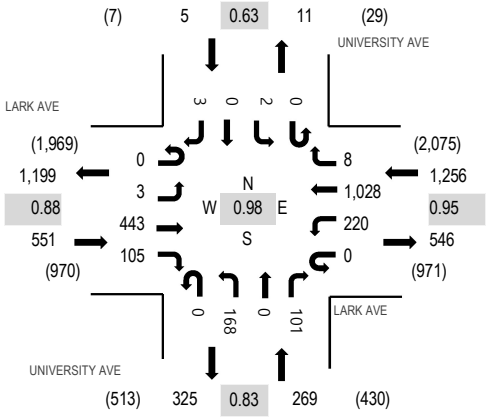
Peak Rolling Hour Flow Rates

Vehicle Type	Eastbound				Westbound				Northbound				Southbound				Total
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	
Articulated Trucks	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Lights	0	0	0	0	3	153	0	1,036	0	0	334	166	4	379	240	0	2,315
Mediums	0	0	0	0	0	5	0	7	0	0	10	0	0	8	7	0	37
Total	0	0	0	0	3	158	0	1,044	0	0	344	166	4	387	247	0	2,353

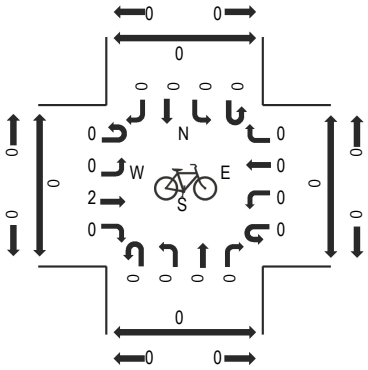
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 2 UNIVERSITY AVE & LARK AVE AM
Date: Tuesday, November 28, 2023
Peak Hour: 08:00 AM - 09:00 AM
Peak 15-Minutes: 08:45 AM - 09:00 AM

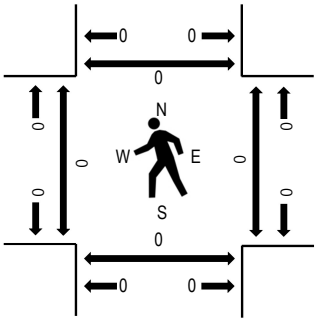
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

Traffic Counts - Motorized Vehicles

Interval Start Time	LARK AVE Eastbound				LARK AVE Westbound				UNIVERSITY AVE Northbound				UNIVERSITY AVE Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
7:00 AM	0	0	69	12	0	15	110	2	0	9	0	15	0	0	0	0	232	1,401	0	0	1	0
7:15 AM	0	0	56	10	0	36	138	5	0	25	1	16	0	0	0	0	287	1,679	0	0	0	0
7:30 AM	0	0	98	14	0	31	173	4	0	30	1	22	0	0	1	0	374	1,921	0	0	1	0
7:45 AM	0	0	134	26	1	43	257	4	0	27	1	14	0	0	0	1	508	2,056	0	0	1	0
8:00 AM	0	0	99	29	0	63	253	5	0	34	0	26	0	0	0	1	510	2,081	0	0	0	0
8:15 AM	0	1	106	22	0	54	278	0	0	39	0	28	0	1	0	0	529		0	0	0	0
8:30 AM	0	0	119	25	0	53	228	1	0	51	0	30	0	0	0	2	509		0	0	0	0
8:45 AM	0	2	119	29	0	50	269	2	0	44	0	17	0	1	0	0	533		0	0	0	0

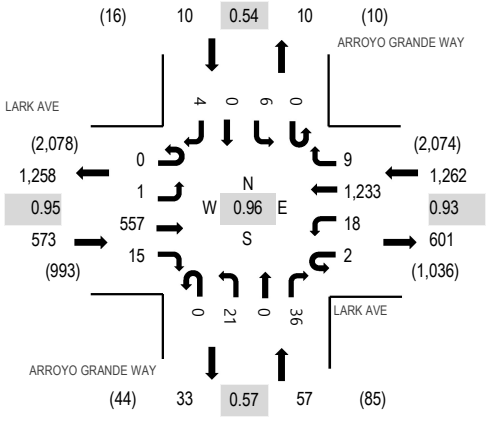
Peak Rolling Hour Flow Rates

Vehicle Type	Eastbound				Westbound				Northbound				Southbound				Total
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	
Articulated Trucks	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Lights	0	3	436	104	0	219	1,015	8	0	168	0	100	0	2	0	3	2,058
Mediums	0	0	7	1	0	1	12	0	0	0	0	1	0	0	0	0	22
Total	0	3	443	105	0	220	1,028	8	0	168	0	101	0	2	0	3	2,081

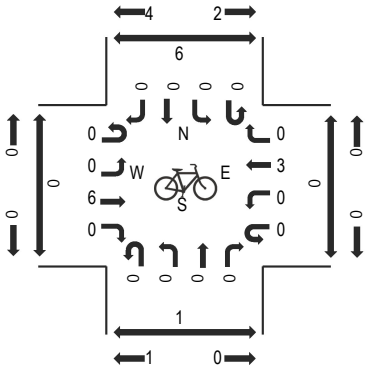
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 3 ARROYO GRANDE WAY & LARK AVE AM
Date: Tuesday, November 28, 2023
Peak Hour: 07:45 AM - 08:45 AM
Peak 15-Minutes: 08:15 AM - 08:30 AM

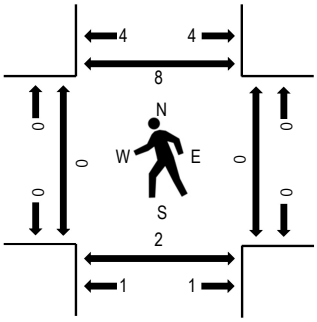
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

Traffic Counts - Motorized Vehicles

Interval Start Time	LARK AVE Eastbound				LARK AVE Westbound				ARROYO GRANDE WAY Northbound				ARROYO GRANDE WAY Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
7:00 AM	0	0	84	0	1	1	125	0	0	4	0	1	0	1	0	1	218	1,294	0	0	1	0
7:15 AM	0	0	78	0	0	0	171	0	0	3	0	5	0	1	0	1	259	1,550	0	0	0	0
7:30 AM	0	0	117	3	1	2	205	0	0	2	0	3	0	2	0	0	335	1,786	0	0	0	3
7:45 AM	0	0	148	3	0	0	298	2	0	8	0	17	0	3	0	3	482	1,902	0	0	0	1
8:00 AM	0	1	133	2	0	8	310	4	0	8	0	5	0	2	0	1	474	1,874	0	0	1	2
8:15 AM	0	0	137	4	2	3	333	2	0	4	0	9	0	1	0	0	495		0	0	0	4
8:30 AM	0	0	139	6	0	7	292	1	0	1	0	5	0	0	0	0	451		0	0	1	1
8:45 AM	0	0	135	3	0	2	304	0	0	4	0	6	0	0	0	0	454		0	0	1	1

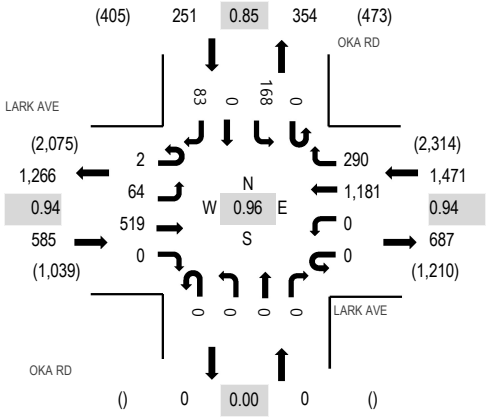
Peak Rolling Hour Flow Rates

Vehicle Type	Eastbound				Westbound				Northbound				Southbound				Total
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	
Articulated Trucks	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	3
Lights	0	1	548	15	2	17	1,217	8	0	21	0	36	0	6	0	3	1,874
Mediums	0	0	7	0	0	1	15	1	0	0	0	0	0	0	0	1	25
Total	0	1	557	15	2	18	1,233	9	0	21	0	36	0	6	0	4	1,902

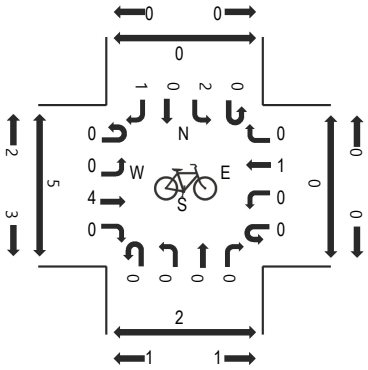
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 4 OKA RD & LARK AVE AM
Date: Tuesday, November 28, 2023
Peak Hour: 08:00 AM - 09:00 AM
Peak 15-Minutes: 08:00 AM - 08:15 AM

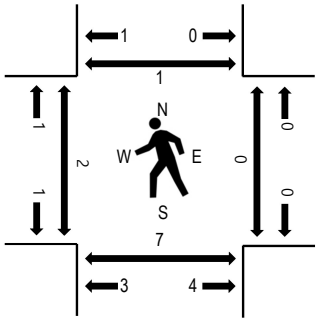
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

Traffic Counts - Motorized Vehicles

Interval Start Time	LARK AVE Eastbound				LARK AVE Westbound				OKA RD Northbound				OKA RD Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
7:00 AM	0	4	83	0	0	0	117	11	0	0	0	0	0	10	0	11	236	1,451	0	0	0	0
7:15 AM	0	4	79	0	0	0	161	11	0	0	0	0	0	15	0	14	284	1,814	0	0	0	0
7:30 AM	0	9	115	0	0	0	196	26	0	0	0	0	0	29	0	13	388	2,115	3	0	3	0
7:45 AM	0	12	148	0	0	0	279	42	0	0	0	0	0	44	0	18	543	2,284	0	0	0	0
8:00 AM	0	13	134	0	0	0	300	78	0	0	0	0	0	51	0	23	599	2,307	1	0	3	0
8:15 AM	1	16	133	0	0	0	318	73	0	0	0	0	0	24	0	20	585		1	0	2	1
8:30 AM	1	23	121	0	0	0	278	69	0	0	0	0	0	49	0	16	557		0	0	0	0
8:45 AM	0	12	131	0	0	0	285	70	0	0	0	0	0	44	0	24	566		0	0	2	0

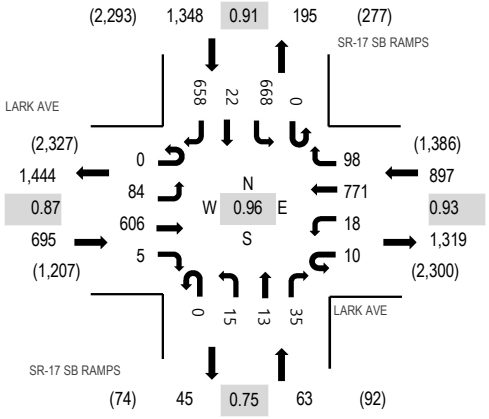
Peak Rolling Hour Flow Rates

Vehicle Type	Eastbound				Westbound				Northbound				Southbound				Total
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	
Articulated Trucks	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Lights	2	64	511	0	0	0	1,166	290	0	0	0	0	0	166	0	83	2,282
Mediums	0	0	8	0	0	0	14	0	0	0	0	0	0	2	0	0	24
Total	2	64	519	0	0	0	1,181	290	0	0	0	0	0	168	0	83	2,307

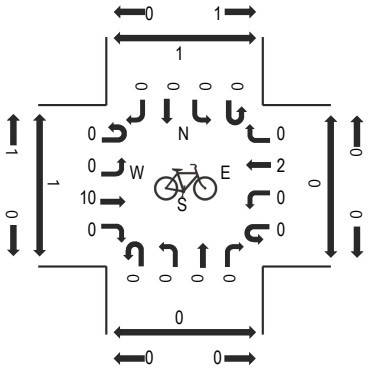
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 5 SR-17 SB RAMPS & LARK AVE AM
Date: Tuesday, November 28, 2023
Peak Hour: 07:45 AM - 08:45 AM
Peak 15-Minutes: 07:45 AM - 08:00 AM

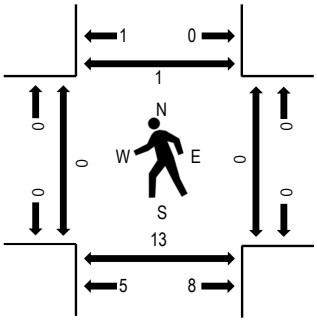
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

Traffic Counts - Motorized Vehicles

Interval Start Time	LARK AVE Eastbound				LARK AVE Westbound				SR-17 SB RAMPS Northbound				SR-17 SB RAMPS Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
7:00 AM	0	4	89	0	1	2	67	5	0	1	0	1	0	95	4	62	331	2,035	0	0	0	0
7:15 AM	0	6	78	1	2	3	73	17	0	4	1	7	0	96	4	95	387	2,466	0	0	0	0
7:30 AM	0	9	132	1	4	3	106	12	0	3	0	5	0	146	1	117	539	2,854	0	0	0	0
7:45 AM	0	19	179	2	1	2	182	33	0	1	0	16	0	198	4	141	778	3,003	0	0	3	0
8:00 AM	0	36	145	0	2	7	197	21	0	4	11	6	0	147	8	178	762	2,943	0	0	6	0
8:15 AM	0	16	131	0	2	6	207	25	0	8	1	7	0	192	4	176	775		0	0	3	1
8:30 AM	0	13	151	3	5	3	185	19	0	2	1	6	0	131	6	163	688		0	0	1	0
8:45 AM	0	9	180	3	0	4	171	19	0	3	0	4	0	141	3	181	718		0	0	1	0

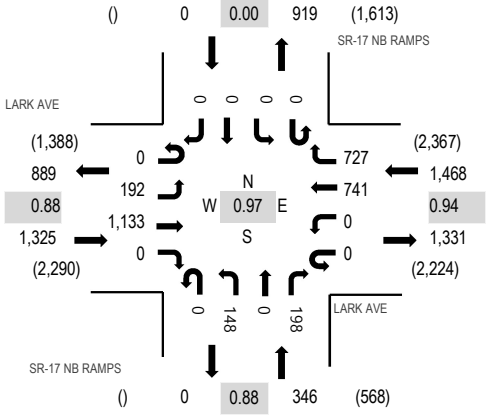
Peak Rolling Hour Flow Rates

Vehicle Type	Eastbound				Westbound				Northbound				Southbound				Total
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	
Articulated Trucks	0	0	2	0	0	0	1	0	0	0	0	0	0	5	0	0	8
Lights	0	84	596	5	10	18	761	95	0	15	13	35	0	642	22	651	2,947
Mediums	0	0	8	0	0	0	9	3	0	0	0	0	0	21	0	7	48
Total	0	84	606	5	10	18	771	98	0	15	13	35	0	668	22	658	3,003

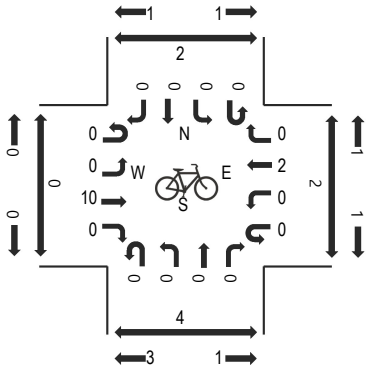
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 6 SR-17 NB RAMPS & LARK AVE AM
Date: Tuesday, November 28, 2023
Peak Hour: 07:45 AM - 08:45 AM
Peak 15-Minutes: 08:15 AM - 08:30 AM

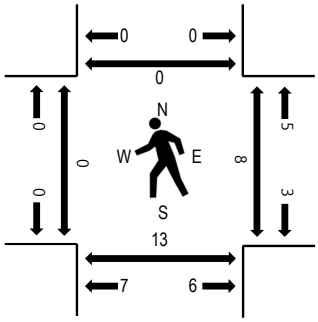
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

Traffic Counts - Motorized Vehicles

Interval Start Time	LARK AVE Eastbound				LARK AVE Westbound				SR-17 NB RAMPS Northbound				SR-17 NB RAMPS Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
7:00 AM	0	37	141	0	0	0	54	82	0	21	0	26	0	0	0	0	361	2,222	0	0	0	0
7:15 AM	0	46	149	0	0	0	76	111	0	20	0	26	0	0	0	0	428	2,637	0	1	2	0
7:30 AM	1	57	227	0	0	0	116	179	0	24	0	23	0	0	0	0	627	3,021	0	0	0	0
7:45 AM	0	45	333	0	0	0	177	168	0	33	0	50	0	0	0	0	806	3,139	0	0	2	0
8:00 AM	0	47	269	0	0	0	195	188	0	30	0	47	0	0	0	0	776	3,003	0	4	4	0
8:15 AM	0	44	281	0	0	0	201	188	0	43	0	55	0	0	0	0	812		0	0	3	0
8:30 AM	0	56	250	0	0	0	168	183	0	42	0	46	0	0	0	0	745		0	4	4	0
8:45 AM	2	44	261	0	0	0	144	137	0	41	1	40	0	0	0	0	670		0	2	2	0

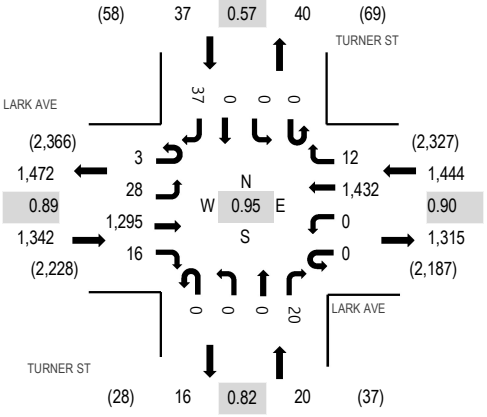
Peak Rolling Hour Flow Rates

Vehicle Type	Eastbound				Westbound				Northbound				Southbound				Total
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	
Articulated Trucks	0	1	6	0	0	0	0	4	0	1	0	1	0	0	0	0	13
Lights	0	188	1,101	0	0	0	730	714	0	147	0	196	0	0	0	0	3,076
Mediums	0	3	26	0	0	0	11	9	0	0	0	1	0	0	0	0	50
Total	0	192	1,133	0	0	0	741	727	0	148	0	198	0	0	0	0	3,139

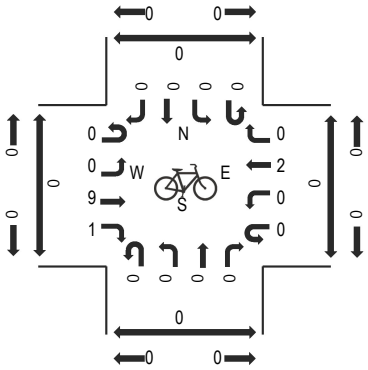
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 7 TURNER ST & LARK AVE AM
Date: Tuesday, November 28, 2023
Peak Hour: 07:45 AM - 08:45 AM
Peak 15-Minutes: 08:15 AM - 08:30 AM

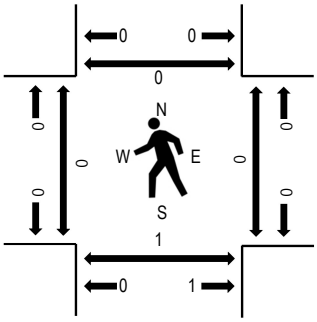
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

Traffic Counts - Motorized Vehicles

Interval Start Time	LARK AVE Eastbound				LARK AVE Westbound				TURNER ST Northbound				TURNER ST Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
7:00 AM	0	5	158	3	0	0	139	3	0	0	0	4	0	0	0	3	315	1,949	0	0	0	0
7:15 AM	1	3	162	5	0	0	177	2	0	0	0	4	0	0	0	2	356	2,337	0	0	0	0
7:30 AM	0	6	234	2	0	0	294	3	0	0	0	4	0	0	0	9	552	2,726	0	0	1	0
7:45 AM	0	7	370	2	0	0	325	1	0	0	0	2	0	0	0	19	726	2,843	0	0	0	0
8:00 AM	0	7	314	5	0	0	361	1	0	0	0	5	0	0	0	10	703	2,701	0	0	0	0
8:15 AM	1	6	322	6	0	0	392	7	0	0	0	6	0	0	0	5	745		0	0	1	0
8:30 AM	2	8	289	3	0	0	354	3	0	0	0	7	0	0	0	3	669		0	0	0	0
8:45 AM	0	5	300	2	1	0	262	2	0	0	0	5	0	0	0	7	584		0	0	0	0

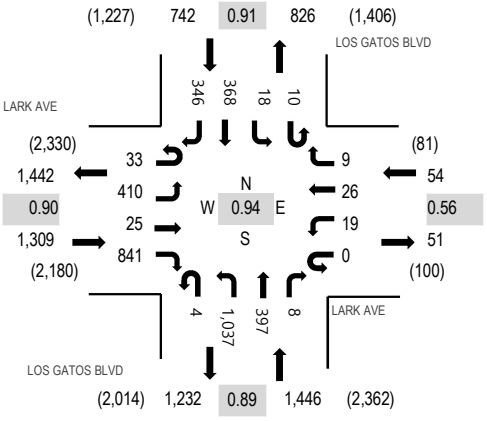
Peak Rolling Hour Flow Rates

Vehicle Type	Eastbound				Westbound				Northbound				Southbound				Total
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	
Articulated Trucks	0	0	7	0	0	0	4	0	0	0	0	0	0	0	0	0	11
Lights	3	25	1,263	16	0	0	1,411	11	0	0	0	20	0	0	0	35	2,784
Mediums	0	3	25	0	0	0	17	1	0	0	0	0	0	0	0	2	48
Total	3	28	1,295	16	0	0	1,432	12	0	0	0	20	0	0	0	37	2,843

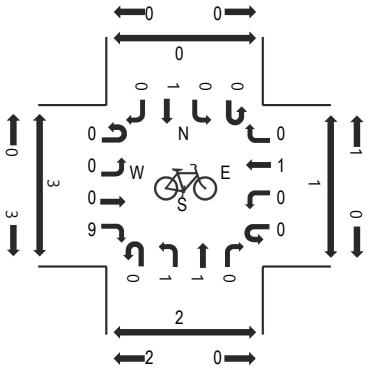
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 8 LOS GATOS BLVD & LARK AVE AM
Date: Tuesday, November 28, 2023
Peak Hour: 07:45 AM - 08:45 AM
Peak 15-Minutes: 08:15 AM - 08:30 AM

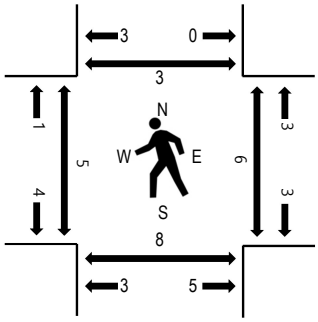
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

Traffic Counts - Motorized Vehicles

Interval Start Time	LARK AVE Eastbound				LARK AVE Westbound				LOS GATOS BLVD Northbound				LOS GATOS BLVD Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
7:00 AM	3	49	12	100	0	1	2	3	0	103	52	1	2	5	38	36	407	2,441	1	0	0	0
7:15 AM	6	62	3	89	0	1	2	4	0	136	63	0	0	5	56	36	463	2,902	1	0	0	0
7:30 AM	6	76	4	154	0	2	3	1	0	224	80	0	0	4	66	69	689	3,387	0	1	3	2
7:45 AM	4	96	4	259	0	6	2	3	0	236	68	0	3	2	112	87	882	3,551	0	1	0	0
8:00 AM	10	78	10	222	0	6	5	2	2	255	97	2	3	6	86	84	868	3,409	0	1	2	0
8:15 AM	8	111	7	202	0	5	16	3	2	276	122	4	1	6	93	92	948		1	2	3	2
8:30 AM	11	125	4	158	0	2	3	1	0	270	110	2	3	4	77	83	853		4	2	3	1
8:45 AM	11	106	7	183	0	2	5	1	4	170	78	5	3	3	86	76	740		2	1	2	2

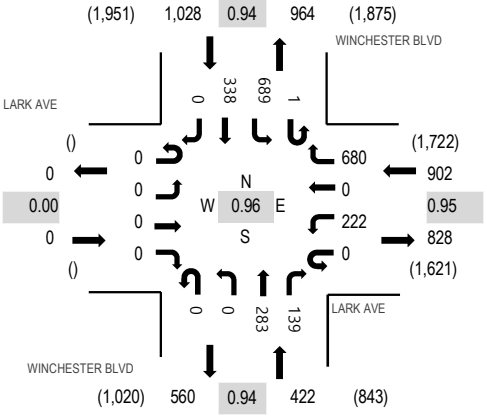
Peak Rolling Hour Flow Rates

Vehicle Type	Eastbound				Westbound				Northbound				Southbound				Total
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	
Articulated Trucks	0	0	0	7	0	0	0	0	0	4	1	0	0	0	1	0	13
Lights	33	406	24	814	0	19	26	9	4	1,021	384	8	10	18	353	340	3,469
Mediums	0	4	1	20	0	0	0	0	0	12	12	0	0	0	14	6	69
Total	33	410	25	841	0	19	26	9	4	1,037	397	8	10	18	368	346	3,551

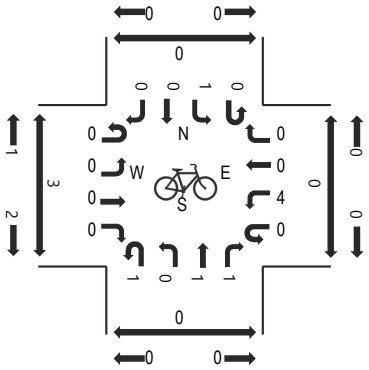
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 1 WINCHESTER BLVD & LARK AVE PM
Date: Tuesday, November 28, 2023
Peak Hour: 04:30 PM - 05:30 PM
Peak 15-Minutes: 05:00 PM - 05:15 PM

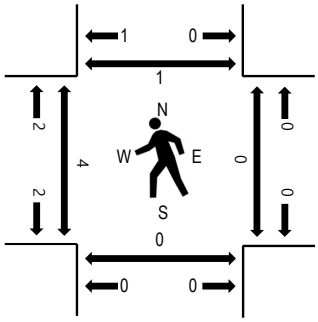
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

Traffic Counts - Motorized Vehicles

Interval Start Time	LARK AVE Eastbound				LARK AVE Westbound				WINCHESTER BLVD Northbound				WINCHESTER BLVD Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
4:00 PM	0	0	0	0	0	52	0	186	0	0	62	44	0	181	74	0	599	2,296	1	1	0	1
4:15 PM	0	0	0	0	0	37	0	164	0	0	74	45	0	166	63	0	549	2,309	0	0	0	1
4:30 PM	0	0	0	0	0	55	0	152	0	0	64	45	0	139	87	0	542	2,352	0	0	0	0
4:45 PM	0	0	0	0	0	62	0	175	0	0	70	31	0	193	75	0	606	2,323	2	0	0	1
5:00 PM	0	0	0	0	0	53	0	168	0	0	76	42	1	180	92	0	612	2,220	1	0	0	0
5:15 PM	0	0	0	0	0	52	0	185	0	0	73	21	0	177	84	0	592		1	0	0	0
5:30 PM	0	0	0	0	0	46	0	156	0	0	72	38	0	126	75	0	513		1	0	0	1
5:45 PM	0	0	0	0	0	38	0	141	0	0	56	30	0	163	75	0	503		1	0	0	0

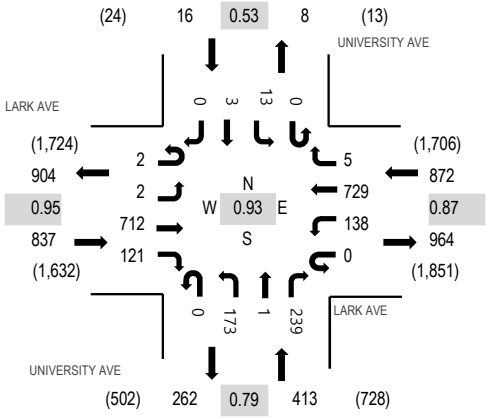
Peak Rolling Hour Flow Rates

Vehicle Type	Eastbound				Westbound				Northbound				Southbound				Total
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lights	0	0	0	0	0	221	0	679	0	0	276	135	1	685	334	0	2,331
Mediums	0	0	0	0	0	1	0	1	0	0	7	4	0	4	4	0	21
Total	0	0	0	0	0	222	0	680	0	0	283	139	1	689	338	0	2,352

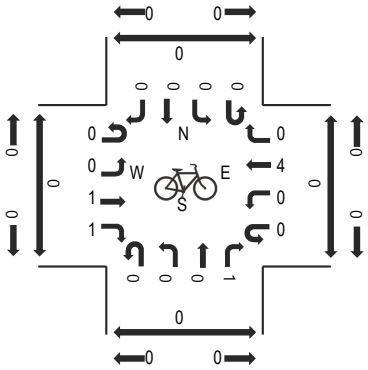
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 2 UNIVERSITY AVE & LARK AVE PM
Date: Tuesday, November 28, 2023
Peak Hour: 04:30 PM - 05:30 PM
Peak 15-Minutes: 05:00 PM - 05:15 PM

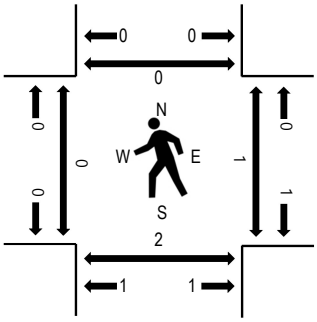
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

Traffic Counts - Motorized Vehicles

Interval Start Time	LARK AVE Eastbound				LARK AVE Westbound				UNIVERSITY AVE Northbound				UNIVERSITY AVE Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
4:00 PM	0	0	201	21	0	49	201	2	0	37	1	56	0	2	0	1	571	2,100	0	0	0	0
4:15 PM	0	0	196	18	0	41	162	1	0	37	0	36	0	2	1	1	495	2,102	0	0	1	0
4:30 PM	0	1	164	23	0	20	165	1	0	45	1	52	0	4	0	0	476	2,138	0	0	2	0
4:45 PM	1	1	179	41	0	54	203	3	0	37	0	38	0	1	0	0	558	2,094	0	0	0	0
5:00 PM	1	0	194	29	0	28	181	1	0	43	0	88	0	6	2	0	573	1,990	0	0	0	0
5:15 PM	0	0	175	28	0	36	180	0	0	48	0	61	0	2	1	0	531		0	1	0	0
5:30 PM	0	0	144	18	1	39	165	0	0	35	1	28	0	1	0	0	432		0	0	0	0
5:45 PM	0	0	174	23	0	30	143	0	0	38	0	46	0	0	0	0	454		0	0	1	0

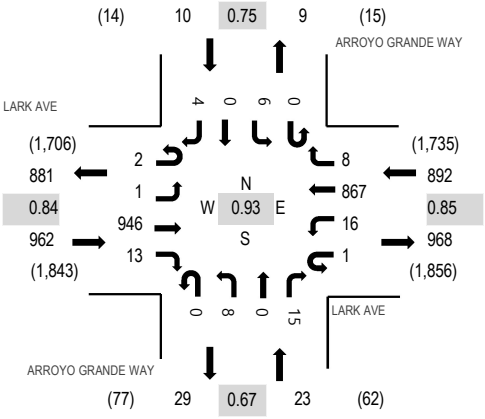
Peak Rolling Hour Flow Rates

Vehicle Type	Eastbound				Westbound				Northbound				Southbound				Total
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lights	2	1	706	120	0	138	727	5	0	173	1	235	0	13	3	0	2,124
Mediums	0	1	6	1	0	0	2	0	0	0	0	4	0	0	0	0	14
Total	2	2	712	121	0	138	729	5	0	173	1	239	0	13	3	0	2,138

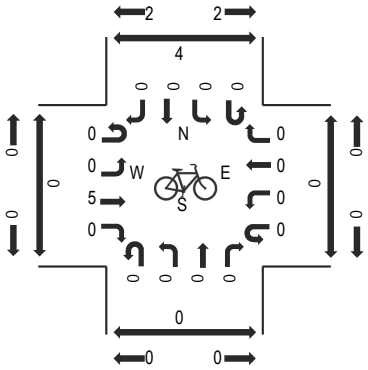
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 3 ARROYO GRANDE WAY & LARK AVE PM
Date: Tuesday, November 28, 2023
Peak Hour: 04:30 PM - 05:30 PM
Peak 15-Minutes: 05:00 PM - 05:15 PM

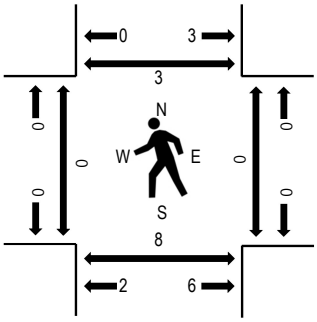
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

Traffic Counts - Motorized Vehicles

Interval Start Time	LARK AVE Eastbound				LARK AVE Westbound				ARROYO GRANDE WAY Northbound				ARROYO GRANDE WAY Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
4:00 PM	0	0	251	2	0	8	262	1	0	4	0	7	0	1	0	0	536	1,870	0	0	1	0
4:15 PM	0	1	221	6	1	8	195	3	0	3	0	4	0	0	0	0	442	1,841	0	0	3	1
4:30 PM	1	1	215	3	0	2	191	3	0	2	0	4	0	0	0	0	422	1,887	0	0	3	0
4:45 PM	0	0	211	1	0	4	242	2	0	4	0	2	0	2	0	2	470	1,856	0	0	2	2
5:00 PM	1	0	281	5	0	2	211	1	0	0	0	4	0	2	0	0	507	1,784	0	0	2	1
5:15 PM	0	0	239	4	1	8	223	2	0	2	0	5	0	2	0	2	488		0	0	1	0
5:30 PM	0	0	181	3	4	5	187	0	0	4	0	5	0	2	0	0	391		0	0	0	0
5:45 PM	0	1	205	10	0	6	163	0	0	6	0	6	0	0	0	1	398		0	0	2	1

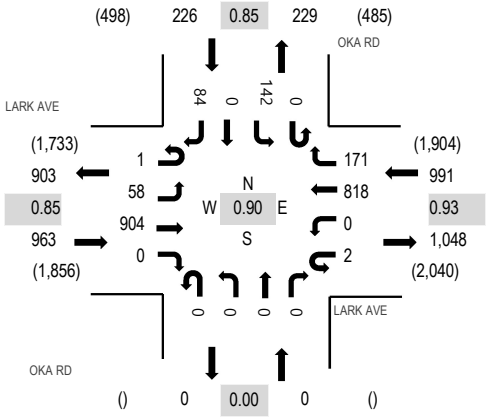
Peak Rolling Hour Flow Rates

Vehicle Type	Eastbound				Westbound				Northbound				Southbound				Total
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lights	2	1	936	13	1	16	865	8	0	8	0	14	0	6	0	4	1,874
Mediums	0	0	10	0	0	0	2	0	0	0	0	1	0	0	0	0	13
Total	2	1	946	13	1	16	867	8	0	8	0	15	0	6	0	4	1,887

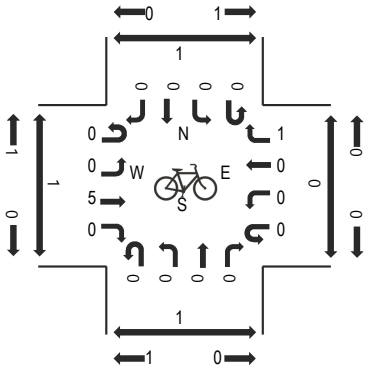
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 4 OKA RD & LARK AVE PM
Date: Tuesday, November 28, 2023
Peak Hour: 04:30 PM - 05:30 PM
Peak 15-Minutes: 05:00 PM - 05:15 PM

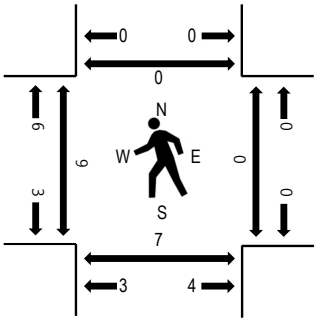
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

Traffic Counts - Motorized Vehicles

Interval Start Time	LARK AVE Eastbound				LARK AVE Westbound				OKA RD Northbound				OKA RD Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
4:00 PM	2	23	235	0	0	0	237	53	0	0	0	0	0	48	0	28	626	2,146	0	0	0	0
4:15 PM	0	15	211	0	0	0	188	29	0	0	0	0	0	55	0	19	517	2,127	2	0	4	1
4:30 PM	0	7	212	0	0	0	185	26	0	0	0	0	0	36	0	14	480	2,180	1	0	5	0
4:45 PM	1	16	194	0	1	0	226	39	0	0	0	0	0	24	0	22	523	2,160	1	0	2	0
5:00 PM	0	15	269	0	1	0	191	57	0	0	0	0	0	48	0	26	607	2,112	2	0	0	0
5:15 PM	0	20	229	0	0	0	216	49	0	0	0	0	0	34	0	22	570		5	0	0	0
5:30 PM	1	18	169	0	0	0	166	45	0	0	0	0	0	42	0	19	460		1	0	0	0
5:45 PM	0	23	196	0	0	0	145	50	0	0	0	0	0	36	0	25	475		0	0	0	1

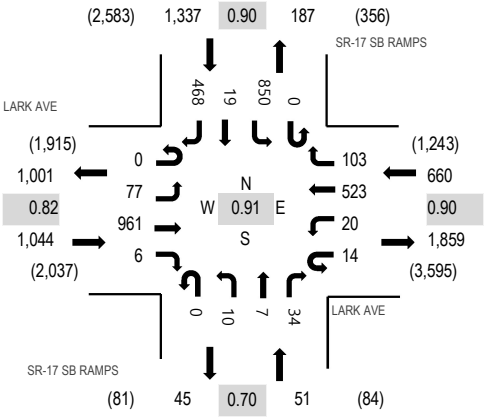
Peak Rolling Hour Flow Rates

Vehicle Type	Eastbound				Westbound				Northbound				Southbound				Total
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lights	1	58	893	0	2	0	816	171	0	0	0	0	0	142	0	84	2,167
Mediums	0	0	11	0	0	0	2	0	0	0	0	0	0	0	0	0	13
Total	1	58	904	0	2	0	818	171	0	0	0	0	0	142	0	84	2,180

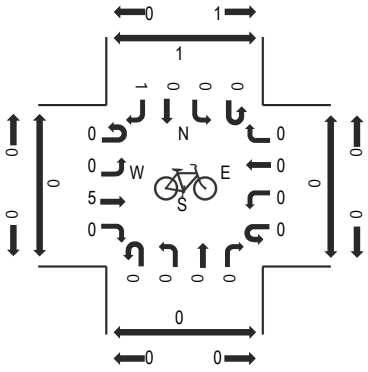
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 5 SR-17 SB RAMPS & LARK AVE PM
Date: Tuesday, November 28, 2023
Peak Hour: 04:30 PM - 05:30 PM
Peak 15-Minutes: 05:00 PM - 05:15 PM

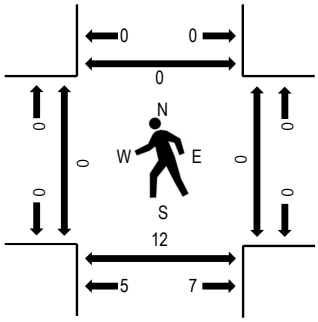
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

Traffic Counts - Motorized Vehicles

Interval Start Time	LARK AVE Eastbound				LARK AVE Westbound				SR-17 SB RAMPS Northbound				SR-17 SB RAMPS Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
4:00 PM	0	18	271	3	3	3	148	31	0	1	0	6	0	166	4	137	791	2,957	0	0	0	0
4:15 PM	0	13	243	2	3	5	112	28	0	3	1	4	0	196	1	102	713	3,019	0	0	2	0
4:30 PM	0	17	216	2	1	8	118	22	0	0	0	8	0	212	4	91	699	3,092	0	0	5	0
4:45 PM	0	19	206	2	4	6	111	23	0	3	2	8	0	211	5	154	754	3,059	0	0	3	0
5:00 PM	0	16	300	1	5	3	148	28	0	3	3	14	0	217	1	114	853	2,990	0	0	3	0
5:15 PM	0	25	239	1	4	3	146	30	0	4	2	4	0	210	9	109	786		0	0	1	0
5:30 PM	0	19	190	1	2	3	106	28	0	1	5	7	0	198	3	103	666		0	0	0	0
5:45 PM	0	13	219	1	2	5	92	12	0	0	1	4	0	222	5	109	685		0	0	1	1

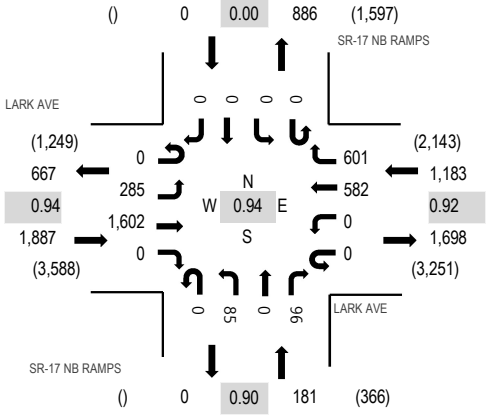
Peak Rolling Hour Flow Rates

Vehicle Type	Eastbound				Westbound				Northbound				Southbound				Total
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
Lights	0	77	951	5	14	19	521	103	0	10	7	34	0	842	19	468	3,070
Mediums	0	0	10	1	0	1	2	0	0	0	0	0	0	6	0	0	20
Total	0	77	961	6	14	20	523	103	0	10	7	34	0	850	19	468	3,092

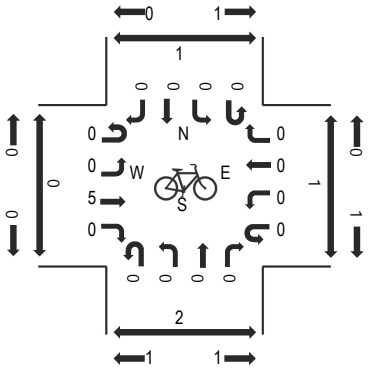
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 6 SR-17 NB RAMPS & LARK AVE PM
Date: Tuesday, November 28, 2023
Peak Hour: 04:30 PM - 05:30 PM
Peak 15-Minutes: 05:00 PM - 05:15 PM

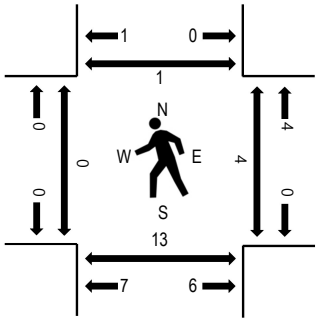
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

Traffic Counts - Motorized Vehicles

Interval Start Time	LARK AVE Eastbound				LARK AVE Westbound				SR-17 NB RAMPS Northbound				SR-17 NB RAMPS Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
4:00 PM	0	86	351	0	0	0	143	125	0	27	0	26	0	0	0	0	758	3,055	0	0	3	0
4:15 PM	0	55	369	0	0	0	129	112	0	20	1	33	0	0	0	0	719	3,164	0	6	6	0
4:30 PM	0	77	379	0	0	0	146	175	0	23	0	23	0	0	0	0	823	3,251	0	1	5	0
4:45 PM	0	52	387	0	0	0	125	150	0	16	0	25	0	0	0	0	755	3,110	0	2	3	0
5:00 PM	0	91	411	0	0	0	161	157	0	19	0	28	0	0	0	0	867	3,042	0	1	5	1
5:15 PM	0	65	425	0	0	0	150	119	0	27	0	20	0	0	0	0	806		0	0	0	0
5:30 PM	0	65	330	0	0	0	123	123	0	13	0	28	0	0	0	0	682		0	0	1	0
5:45 PM	0	48	397	0	0	0	109	96	0	18	0	19	0	0	0	0	687		0	0	0	0

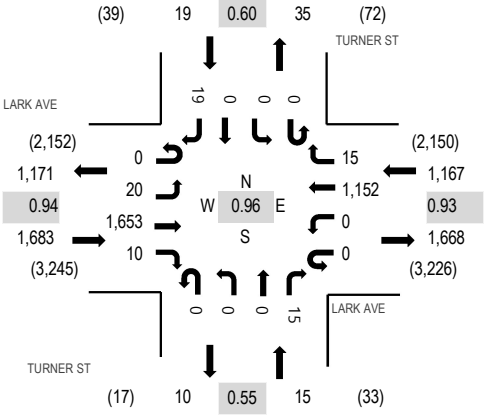
Peak Rolling Hour Flow Rates

Vehicle Type	Eastbound				Westbound				Northbound				Southbound				Total
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	
Articulated Trucks	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lights	0	283	1,586	0	0	0	579	593	0	85	0	93	0	0	0	0	3,219
Mediums	0	2	14	0	0	0	3	8	0	0	0	3	0	0	0	0	30
Total	0	285	1,602	0	0	0	582	601	0	85	0	96	0	0	0	0	3,251

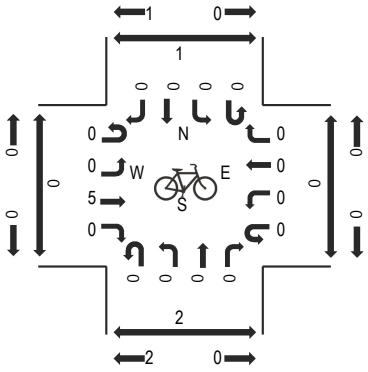
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 7 TURNER ST & LARK AVE PM
Date: Tuesday, November 28, 2023
Peak Hour: 04:30 PM - 05:30 PM
Peak 15-Minutes: 05:00 PM - 05:15 PM

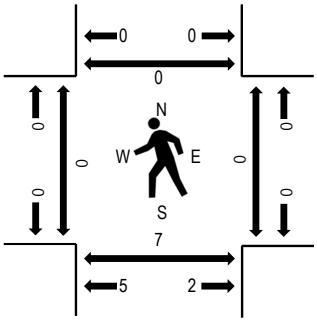
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

Traffic Counts - Motorized Vehicles

Interval Start Time	LARK AVE Eastbound				LARK AVE Westbound				TURNER ST Northbound				TURNER ST Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
4:00 PM	0	5	366	2	0	0	264	3	0	0	0	10	0	0	0	5	655	2,733	0	0	1	0
4:15 PM	0	0	406	2	0	0	249	5	0	0	0	4	0	0	0	10	676	2,828	0	0	1	0
4:30 PM	0	10	389	0	0	0	308	6	0	0	0	3	0	0	0	2	718	2,884	0	0	3	0
4:45 PM	0	9	397	2	0	0	266	1	0	0	0	5	0	0	0	4	684	2,789	0	0	1	0
5:00 PM	0	1	426	2	0	0	307	4	0	0	0	2	0	0	0	8	750	2,734	0	0	3	0
5:15 PM	0	0	441	6	0	0	271	4	0	0	0	5	0	0	0	5	732		0	0	0	0
5:30 PM	0	7	363	2	0	0	240	7	0	0	0	1	0	0	0	3	623		0	0	0	0
5:45 PM	0	3	405	1	0	0	208	7	0	0	0	3	0	0	0	2	629		0	0	1	0

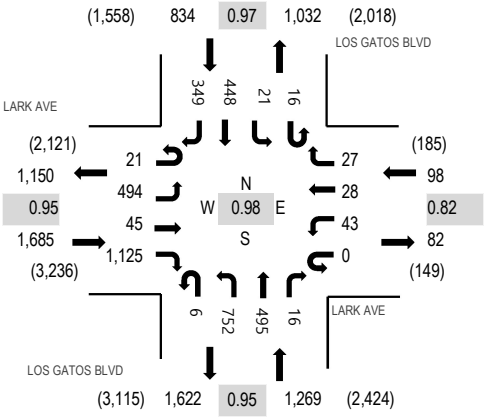
Peak Rolling Hour Flow Rates

Vehicle Type	Eastbound				Westbound				Northbound				Southbound				Total
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	
Articulated Trucks	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lights	0	18	1,636	10	0	0	1,141	14	0	0	0	15	0	0	0	19	2,853
Mediums	0	2	15	0	0	0	11	1	0	0	0	0	0	0	0	0	29
Total	0	20	1,653	10	0	0	1,152	15	0	0	0	15	0	0	0	19	2,884

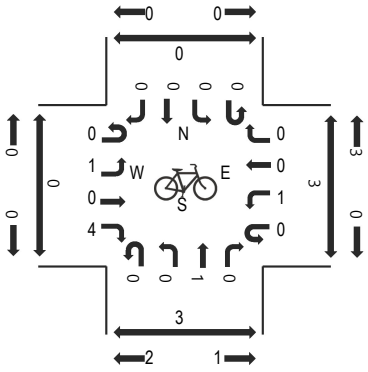
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 8 LOS GATOS BLVD & LARK AVE PM
Date: Tuesday, November 28, 2023
Peak Hour: 04:30 PM - 05:30 PM
Peak 15-Minutes: 05:00 PM - 05:15 PM

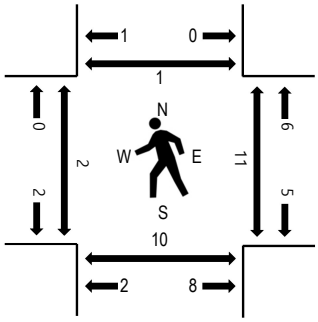
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

Traffic Counts - Motorized Vehicles

Interval Start Time	LARK AVE Eastbound				LARK AVE Westbound				LOS GATOS BLVD Northbound				LOS GATOS BLVD Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
4:00 PM	7	108	11	232	0	9	8	6	2	169	146	3	2	5	127	87	922	3,808	2	1	5	0
4:15 PM	5	119	12	284	0	16	4	9	2	154	150	4	6	5	116	85	971	3,875	1	4	1	2
4:30 PM	7	117	13	258	0	10	5	4	2	208	120	4	4	2	129	89	972	3,886	0	0	3	1
4:45 PM	7	122	10	280	0	11	12	8	1	156	118	4	3	6	119	86	943	3,724	2	5	4	0
5:00 PM	3	136	10	279	0	9	5	7	0	196	129	4	5	8	101	97	989	3,595	0	6	3	0
5:15 PM	4	119	12	308	0	13	6	8	3	192	128	4	4	5	99	77	982		0	0	0	0
5:30 PM	8	100	6	262	0	7	5	4	1	158	99	2	5	3	84	66	810		1	1	2	0
5:45 PM	6	116	11	264	0	8	4	7	1	159	104	1	5	4	78	46	814		2	0	1	0

Peak Rolling Hour Flow Rates

Vehicle Type	Eastbound				Westbound				Northbound				Southbound				Total
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	
Articulated Trucks	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
Lights	21	488	42	1,117	0	41	26	26	6	745	492	12	16	21	445	346	3,844
Mediums	0	5	3	7	0	2	2	1	0	7	3	4	0	0	3	3	40
Total	21	494	45	1,125	0	43	28	27	6	752	495	16	16	21	448	349	3,886

Appendix B

Approved and Pending Project List

Oka Road Townhomes Approved and Pending Projects

Town of Los Gatos Approved Projects Analyzed (August 2024)	
Address	**Project Description**
North 40 Phase I	320 multi-family units, 66,000 s.f. commercial
15475 Los Gatos Blvd	Add drive-thru to existing 4,700 sf restaurant
15860 Winchester Blvd	107 assissted living units and 18 memory care units
15600-15659 Los Gatos Blvd	New grocery store

Town of Los Gatos Pending Projects Analyzed (August 2024)	
Address	**Project Description**
14926 Los Gatos Blvd	6,100 s.f. commercial, 5 multi-family units
14849 Los Gatos Blvd	19,621 s.f. commercial, 117 multi-family units
15300-15330 Los Gatos Blvd	42,383 s.f. commercial, 183 multi-family units
15349-15376 Los Gatos Blvd	55 multi-family units
North 40 Phase II	15,014 s.f. commercial, 450 multi-family units
14288 Capri Dr	120 multi-family units
647 N Santa Cruz Ave	238 multi-family units
980 University Ave	14 multi-family units

City of Campbell Approved Projects Analyzed	
1700 Dell Ave	170,000 s.f. office

City of San Jose Approved Projects Analyzed	
Samaritian Medical Expansion	750,000 s.f. hospital

City of San Jose Pending Projects Analyzed	
Samaritian Medical Expansion	200,000 s.f. medical office building, 15 hospital beds

Appendix C

Volume Summary Sheet

Intersection Number: 1
Traffix Node Number: 1
Intersection Name: Winchester Boulevard & Lark Avenue
Peak Hour: AM
Date of Analysis: 09/25/24
Count Date: 11/28/23

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	0	247	391	1044	0	161	166	344	0	0	0	0	2353
Approved Project Trips													
1700 Dell Avenue (Campbell)	0	3	4	38	0	0	0	15	0	0	0	0	60
Samaritian Medical Expansion (SJ ATI)	0	0	15	4	0	1	4	0	0	0	0	0	24
North 40 Phase I	0	0	8	8	0	1	1	0	0	0	0	0	18
15475 Los Gatos Blvd	0	0	2	2	0	0	0	0	0	0	0	0	4
15860 Winchester Blvd	0	5	0	0	0	0	0	3	0	0	0	0	8
15600-15659 Los Gatos Blvd	0	0	2	1	0	0	0	0	0	0	0	0	3
Total Approved Trips	0	8	31	53	0	2	5	18	0	0	0	0	117
Background Conditions	0	255	422	1097	0	163	171	362	0	0	0	0	2470
Pending Project Trips													
Samaritian Medical Expansion (SJ Pending)	0	0	9	2	0	3	14	0	0	0	0	0	28
14926 Los Gatos Blvd	0	0	0	0	0	0	0	0	0	0	0	0	0
14849 Los Gatos Boulevard	0	0	4	6	0	0	0	0	0	0	0	0	10
15300-15330 Los Gatos Boulevard	0	0	1	5	0	0	0	0	0	0	0	0	6
15349-15376 Los Gatos Boulevard	0	0	0	0	0	0	0	0	0	0	0	0	0
North 40 Phase II	0	0	9	20	0	6	3	0	0	0	0	0	38
14288 Capri Drive	0	4	0	0	0	0	0	1	0	0	0	0	5
15495 Los Gatos Boulevard	0	0	2	7	0	0	0	0	0	0	0	0	9
980 University Avenue	0	0	3	6	0	0	0	0	0	0	0	0	9
Total Approved Trips	0	4	28	46	0	9	17	1	0	0	0	0	105
Cumulative Conditions	0	259	450	1143	0	172	188	363	0	0	0	0	2575
Project Trips	0	0	5	15	0	2	1	0	0	0	0	0	23
Existing + Project	0	247	396	1059	0	163	167	344	0	0	0	0	2376
Background + Project	0	255	427	1112	0	165	172	362	0	0	0	0	2493
Cumulative + Project	0	259	455	1158	0	174	189	363	0	0	0	0	2598

Intersection Number: 2
Traffix Node Number: 2
Intersection Name: University Avenue & Lark Avenue
Peak Hour: AM
Date of Analysis: 09/25/24
Count Date: 11/28/23

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	3	0	2	8	1028	220	101	0	168	105	443	3	2081
Approved Project Trips													
1700 Dell Avenue (Campbell)	0	0	0	0	38	0	0	0	0	0	4	0	42
Samaritian Medical Expansion (SJ ATI)	0	0	0	0	5	0	0	0	0	0	19	0	24
North 40 Phase I	0	0	0	0	8	0	0	0	0	0	9	0	17
15475 Los Gatos Blvd	0	0	0	0	2	0	0	0	0	0	2	0	4
15860 Winchester Blvd	0	0	0	0	0	2	1	0	0	0	0	0	3
15600-15659 Los Gatos Blvd	0	0	0	0	1	0	0	0	0	0	2	0	3
Total Approved Trips	0	0	0	0	54	2	1	0	0	0	36	0	93
Background Conditions	3	0	2	8	1082	222	102	0	168	105	479	3	2174
Pending Project Trips													
Samaritian Medical Expansion (SJ Pending)	0	0	0	0	5	0	0	0	0	0	23	0	28
14926 Los Gatos Blvd	0	0	0	0	0	0	0	0	0	0	0	0	0
14849 Los Gatos Boulevard	0	0	0	0	6	0	0	0	0	0	4	0	10
15300-15330 Los Gatos Boulevard	0	0	0	0	5	0	0	0	0	0	1	0	6
15349-15376 Los Gatos Boulevard	0	0	0	0	0	0	0	0	0	0	0	0	0
North 40 Phase II	0	0	0	0	26	0	0	0	0	0	12	0	38
14288 Capri Drive	0	0	0	0	0	0	0	0	0	0	0	0	0
15495 Los Gatos Boulevard	0	0	0	0	7	0	0	0	0	0	2	0	9
980 University Avenue	0	0	0	6	0	0	14	0	6	3	0	0	29
Total Approved Trips	0	0	0	6	49	0	14	0	6	3	42	0	120
Cumulative Conditions	3	0	2	14	1131	222	116	0	174	108	521	3	2294
Project Trips	0	0	0	0	17	0	0	0	0	0	6	0	23
Existing + Project	3	0	2	8	1045	220	101	0	168	105	449	3	2104
Background + Project	3	0	2	8	1099	222	102	0	168	105	485	3	2197
Cumulative + Project	3	0	2	14	1148	222	116	0	174	108	527	3	2317

Intersection Number: 3
Traffix Node Number: 3
Intersection Name: Mill Road/Arroyo Granc & Lark Avenue
Peak Hour: AM
Date of Analysis: 09/25/24
Count Date: 11/28/23

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	4	0	6	9	1233	20	36	0	21	15	557	1	1902
Approved Project Trips													
1700 Dell Avenue (Campbell)	0	0	0	0	38	0	0	0	0	0	4	0	42
Samaritian Medical Expansion (SJ ATI)	0	0	0	0	5	0	0	0	0	0	19	0	24
North 40 Phase I	0	0	0	0	8	0	0	0	0	0	9	0	17
15475 Los Gatos Blvd	0	0	0	0	2	0	0	0	0	0	2	0	4
15860 Winchester Blvd	0	0	0	0	2	0	0	0	0	0	1	0	3
15600-15659 Los Gatos Blvd	0	0	0	0	1	0	0	0	0	0	2	0	3
Total Approved Trips	0	0	0	0	56	0	0	0	0	0	37	0	93
Background Conditions	4	0	6	9	1289	20	36	0	21	15	594	1	1995
Pending Project Trips													
Samaritian Medical Expansion (SJ Pending)	0	0	0	0	5	0	0	0	0	0	23	0	28
14926 Los Gatos Blvd	0	0	0	0	0	0	0	0	0	0	0	0	0
14849 Los Gatos Boulevard	0	0	0	0	6	0	0	0	0	0	4	0	10
15300-15330 Los Gatos Boulevard	0	0	0	0	5	0	0	0	0	0	1	0	6
15349-15376 Los Gatos Boulevard	0	0	0	0	0	0	0	0	0	0	0	0	0
North 40 Phase II	0	0	0	0	26	0	0	0	0	0	12	0	38
14288 Capri Drive	0	0	0	0	0	0	0	0	0	0	0	0	0
15495 Los Gatos Boulevard	0	0	0	0	7	0	0	0	0	0	2	0	9
980 University Avenue	0	0	0	0	6	0	0	0	0	0	14	0	20
Total Approved Trips	0	0	0	0	55	0	0	0	0	0	56	0	111
Cumulative Conditions	4	0	6	9	1344	20	36	0	21	15	650	1	2106
Project Trips	0	0	0	0	17	0	0	0	0	0	6	0	23
Existing + Project	4	0	6	9	1250	20	36	0	21	15	563	1	1925
Background + Project	4	0	6	9	1306	20	36	0	21	15	600	1	2018
Cumulative + Project	4	0	6	9	1361	20	36	0	21	15	656	1	2129

Intersection Number: 4
Traffix Node Number: 4
Intersection Name: Oka Road & Lark Avenue
Peak Hour: AM
Date of Analysis: 09/25/24
Count Date: 11/28/23

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	83	0	168	290	1181	0	0	0	0	0	519	66	2307
Approved Project Trips													
1700 Dell Avenue (Campbell)	0	0	0	0	38	0	0	0	0	0	4	0	42
Samaritian Medical Expansion (SJ ATI)	0	0	0	0	5	0	0	0	0	0	19	0	24
North 40 Phase I	0	0	0	0	8	0	0	0	0	0	9	0	17
15475 Los Gatos Blvd	0	0	0	0	2	0	0	0	0	0	2	0	4
15860 Winchester Blvd	0	0	0	0	2	0	0	0	0	0	1	0	3
15600-15659 Los Gatos Blvd	0	0	0	0	1	0	0	0	0	0	2	0	3
Total Approved Trips	0	0	0	0	56	0	0	0	0	0	37	0	93
Background Conditions	83	0	168	290	1237	0	0	0	0	0	556	66	2400
Pending Project Trips													
Samaritian Medical Expansion (SJ Pending)	0	0	0	0	5	0	0	0	0	0	23	0	28
14926 Los Gatos Blvd	0	0	0	0	0	0	0	0	0	0	0	0	0
14849 Los Gatos Boulevard	0	0	0	0	6	0	0	0	0	0	4	0	10
15300-15330 Los Gatos Boulevard	0	0	0	0	5	0	0	0	0	0	1	0	6
15349-15376 Los Gatos Boulevard	0	0	0	0	0	0	0	0	0	0	0	0	0
North 40 Phase II	0	0	0	0	26	0	0	0	0	0	12	0	38
14288 Capri Drive	0	0	0	0	0	0	0	0	0	0	0	0	0
15495 Los Gatos Boulevard	0	0	0	0	7	0	0	0	0	0	2	0	9
980 University Avenue	0	0	0	0	6	0	0	0	0	0	14	0	20
Total Approved Trips	0	0	0	0	55	0	0	0	0	0	56	0	111
Cumulative Conditions	83	0	168	290	1292	0	0	0	0	0	612	66	2511
Project Trips	17	0	32	11	0	0	0	0	0	0	0	6	66
Existing + Project	100	0	200	301	1181	0	0	0	0	0	519	72	2373
Background + Project	100	0	200	301	1237	0	0	0	0	0	556	72	2466
Cumulative + Project	100	0	200	301	1292	0	0	0	0	0	612	72	2577

Intersection Number: 5
Traffix Node Number: 5
Intersection Name: SR 17 SB Ramps & Lark Avenue
Peak Hour: AM
Count Date: 11/28/23
Date of Analysis: 09/25/24

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	658	22	668	98	771	28	35	13	15	5	606	84	3003
Approved Project Trips													
1700 Dell Avenue (Campbell)	16	0	0	0	22	0	0	0	0	0	2	2	42
Samaritian Medical Expansion (SJ ATI)	0	0	31	5	5	0	0	0	0	0	19	0	60
North 40 Phase I	0	0	10	6	8	0	0	0	0	0	9	0	33
15475 Los Gatos Blvd	0	0	2	0	2	0	0	0	0	0	2	0	6
15860 Winchester Blvd	2	0	0	0	0	0	0	0	0	0	1	0	3
15600-15659 Los Gatos Blvd	0	0	7	0	1	1	1	0	0	0	2	0	12
Total Approved Trips	18	0	50	11	38	1	1	0	0	0	35	2	156
Background Conditions	676	22	718	109	809	29	36	13	15	5	641	86	3159
Pending Project Trips													
Samaritian Medical Expansion (SJ Pending)	0	0	36	4	5	0	0	0	0	0	23	0	68
14926 Los Gatos Blvd	0	0	0	1	0	0	0	0	0	0	0	0	1
14849 Los Gatos Boulevard	0	0	5	4	6	0	0	0	0	0	4	0	19
15300-15330 Los Gatos Boulevard	0	0	5	9	5	0	0	0	0	0	1	0	20
15349-15376 Los Gatos Boulevard	0	0	1	3	0	0	0	0	0	0	0	0	4
North 40 Phase II	0	0	10	11	26	0	0	0	0	0	12	0	59
14288 Capri Drive	0	0	0	0	0	0	0	0	0	0	0	0	0
15495 Los Gatos Boulevard	0	0	3	3	7	0	0	0	0	0	2	0	15
980 University Avenue	3	0	0	0	3	0	0	0	0	0	12	2	20
Total Approved Trips	3	0	60	35	52	0	0	0	0	0	54	2	206
Cumulative Conditions	679	22	778	144	861	29	36	13	15	5	695	88	3365
Project Trips	3	0	0	0	9	0	0	0	0	0	27	5	44
Existing + Project	661	22	668	98	780	28	35	13	15	5	633	89	3047
Background + Project	679	22	718	109	818	29	36	13	15	5	668	91	3203
Cumulative + Project	682	22	778	144	870	29	36	13	15	5	722	93	3409

Intersection Number: 6
Traffix Node Number: 6
Intersection Name: SR 17 NB Ramps & Lark Avenue
Peak Hour: AM
Count Date: 11/28/23
Date of Analysis: 09/25/24

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	0	0	0	727	741	0	198	0	148	0	1133	192	3139
Approved Project Trips													
1700 Dell Avenue (Campbell)	0	0	0	0	9	0	0	0	13	0	2	0	24
Samaritian Medical Expansion (SJ ATI)	0	0	0	9	10	0	20	0	0	0	50	0	89
North 40 Phase I	0	0	0	9	14	0	6	0	0	0	19	0	48
15475 Los Gatos Blvd	0	0	0	2	2	0	0	0	0	0	3	0	7
15860 Winchester Blvd	0	0	0	0	0	0	0	0	0	0	0	1	1
15600-15659 Los Gatos Blvd	0	0	0	5	2	0	0	0	0	0	10	0	17
Total Approved Trips	0	0	0	25	37	0	26	0	13	0	84	1	186
Background Conditions	0	0	0	752	778	0	224	0	161	0	1217	193	3325
Pending Project Trips													
Samaritian Medical Expansion (SJ Pending)	0	0	0	9	10	0	18	0	0	0	59	0	96
14926 Los Gatos Blvd	0	0	0	1	1	0	1	0	0	0	0	0	3
14849 Los Gatos Boulevard	0	0	0	7	11	0	3	0	0	0	9	0	30
15300-15330 Los Gatos Boulevard	0	0	0	9	14	0	5	0	0	0	6	0	34
15349-15376 Los Gatos Boulevard	0	0	0	3	3	0	1	0	0	0	1	0	8
North 40 Phase II	0	0	0	24	37	0	5	0	0	0	22	0	88
14288 Capri Drive	0	0	0	0	0	0	0	0	0	0	0	0	0
15495 Los Gatos Boulevard	0	0	0	10	10	0	1	0	0	0	5	0	26
980 University Avenue	0	0	0	0	2	0	0	0	1	0	5	7	15
Total Approved Trips	0	0	0	63	88	0	34	0	1	0	107	7	300
Cumulative Conditions	0	0	0	815	866	0	258	0	162	0	1324	200	3625
Project Trips	0	0	0	0	7	0	0	0	2	0	20	7	36
Existing + Project	0	0	0	727	748	0	198	0	150	0	1153	199	3175
Background + Project	0	0	0	752	785	0	224	0	163	0	1237	200	3361
Cumulative + Project	0	0	0	815	873	0	258	0	164	0	1344	207	3661

Intersection Number: 7
Traffix Node Number: 7
Intersection Name: Turner Street/Highland & Lark Avenue
Peak Hour: AM
Date of Analysis: 09/25/24
Count Date: 11/28/23

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	37	0	0	12	1432	0	20	0	0	16	1295	31	2843
Approved Project Trips													
1700 Dell Avenue (Campbell)	0	0	0	0	9	0	0	0	0	0	2	0	11
Samaritian Medical Expansion (SJ ATI)	0	0	0	0	19	0	0	0	0	0	70	0	89
North 40 Phase I	8	0	0	0	15	0	0	0	0	0	20	4	47
15475 Los Gatos Blvd	0	0	0	0	3	0	0	0	0	0	3	0	6
15860 Winchester Blvd	0	0	0	0	0	0	0	0	0	0	0	0	0
15600-15659 Los Gatos Blvd	0	0	0	0	7	0	0	0	0	0	10	0	17
Total Approved Trips	8	0	0	0	53	0	0	0	0	0	105	4	170
Background Conditions	45	0	0	12	1485	0	20	0	0	16	1400	35	3013
Pending Project Trips													
Samaritian Medical Expansion (SJ Pending)	0	0	0	0	19	0	0	0	0	0	77	0	96
14926 Los Gatos Blvd	0	0	0	0	2	0	0	0	0	0	1	0	3
14849 Los Gatos Boulevard	0	0	0	0	17	0	0	0	0	0	12	0	29
15300-15330 Los Gatos Boulevard	0	0	0	0	24	0	0	0	0	0	11	0	35
15349-15376 Los Gatos Boulevard	0	0	0	0	5	0	0	0	0	0	2	0	7
North 40 Phase II	0	0	0	0	61	0	0	0	0	0	27	0	88
14288 Capri Drive	0	0	0	0	0	0	0	0	0	0	0	0	0
15495 Los Gatos Boulevard	0	0	0	0	20	0	0	0	0	0	6	0	26
980 University Avenue	0	0	0	0	2	0	0	0	0	0	5	0	7
Total Approved Trips	0	0	0	0	150	0	0	0	0	0	141	0	291
Cumulative Conditions	45	0	0	12	1635	0	20	0	0	16	1541	35	3304
Project Trips	0	0	0	0	7	0	0	0	0	0	20	0	27
Existing + Project	37	0	0	12	1439	0	20	0	0	16	1315	31	2870
Background + Project	45	0	0	12	1492	0	20	0	0	16	1420	35	3040
Cumulative + Project	45	0	0	12	1642	0	20	0	0	16	1561	35	3331

Intersection Number: 8
Traffix Node Number: 8
Intersection Name: Los Gatos Boulevard & Lark Avenue
Peak Hour: AM
Date of Analysis: 09/25/24
Count Date: 11/28/23

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	346	368	28	9	26	19	8	397	1041	841	25	443	3551
Approved Project Trips													
1700 Dell Avenue (Campbell)	5	0	0	0	0	0	0	0	4	1	0	1	11
Samaritian Medical Expansion (SJ ATI)	19	5	0	0	0	0	0	17	0	0	0	70	111
North 40 Phase I	15	12	0	0	0	0	0	11	3	0	0	20	61
15475 Los Gatos Blvd	0	3	0	0	0	0	0	3	3	3	0	0	12
15860 Winchester Blvd	0	0	0	0	0	0	0	0	0	0	0	0	0
15600-15659 Los Gatos Blvd	0	14	0	0	0	0	0	9	7	10	0	0	40
Total Approved Trips	39	34	0	0	0	0	0	40	17	14	0	91	235
Background Conditions	385	402	28	9	26	19	8	437	1058	855	25	534	3786
Pending Project Trips													
Samaritian Medical Expansion (SJ Pending)	19	4	0	0	0	0	0	18	0	0	0	77	118
14926 Los Gatos Blvd	2	1	0	0	0	0	0	1	0	0	0	1	5
14849 Los Gatos Boulevard	17	9	0	0	0	0	0	7	0	0	0	12	45
15300-15330 Los Gatos Boulevard	0	10	0	0	0	0	0	19	28	11	0	0	68
15349-15376 Los Gatos Boulevard	0	2	0	0	0	0	0	5	5	2	0	0	14
North 40 Phase II	61	34	0	0	0	0	0	13	0	0	0	27	135
14288 Capri Drive	0	0	0	0	0	0	0	0	0	0	0	0	0
15495 Los Gatos Boulevard	0	6	0	0	0	0	0	20	20	6	0	0	52
980 University Avenue	2	0	0	0	0	0	0	0	0	0	0	5	7
Total Approved Trips	101	66	0	0	0	0	0	83	53	19	0	122	444
Cumulative Conditions	486	468	28	9	26	19	8	520	1111	874	25	656	4230
Project Trips	4	0	0	0	0	0	0	0	3	7	0	12	26
Existing + Project	350	368	28	9	26	19	8	397	1044	848	25	455	3577
Background + Project	389	402	28	9	26	19	8	437	1061	862	25	546	3812
Cumulative + Project	490	468	28	9	26	19	8	520	1114	881	25	668	4256

Intersection Number: 1
Traffix Node Number: 1
Intersection Name: Winchester Boulevard & Lark Avenue
Peak Hour: PM
Date of Analysis: 09/25/24
Count Date: 11/28/23

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	0	338	690	680	0	222	139	283	0	0	0	0	2352
Approved Project Trips													
1700 Dell Avenue (Campbell)	0	15	22	8	0	0	0	3	0	0	0	0	48
Samaritian Medical Expansion (SJ ATI)	0	0	9	22	0	7	3	0	0	0	0	0	41
North 40 Phase I	0	0	22	21	0	2	2	0	0	0	0	0	47
15475 Los Gatos Blvd	0	0	1	1	0	0	0	0	0	0	0	0	2
15860 Winchester Blvd	0	4	0	0	0	0	0	7	0	0	0	0	11
15600-15659 Los Gatos Blvd	0	0	6	6	0	0	0	0	0	0	0	0	12
Total Approved Trips	0	19	60	58	0	9	5	10	0	0	0	0	161
Background Conditions	0	357	750	738	0	231	144	293	0	0	0	0	2513
Pending Project Trips													
Samaritian Medical Expansion (SJ Pending)	0	0	3	9	0	13	5	0	0	0	0	0	30
14926 Los Gatos Blvd	0	0	0	0	0	0	0	0	0	0	0	0	0
14849 Los Gatos Boulevard	0	0	8	7	0	1	1	0	0	0	0	0	17
15300-15330 Los Gatos Boulevard	0	0	4	2	0	0	0	0	0	0	0	0	6
15349-15376 Los Gatos Boulevard	0	0	0	0	0	0	0	0	0	0	0	0	0
North 40 Phase II	0	0	21	15	0	5	6	0	0	0	0	0	47
14288 Capri Drive	0	3	0	0	0	0	0	4	0	0	0	0	7
15495 Los Gatos Boulevard	0	0	6	4	0	0	0	0	0	0	0	0	10
980 University Avenue	0	0	6	4	0	0	0	0	0	0	0	0	10
Total Approved Trips	0	3	48	41	0	19	12	4	0	0	0	0	127
Cumulative Conditions	0	360	798	779	0	250	156	297	0	0	0	0	2640
Project Trips	0	0	14	10	0	2	2	0	0	0	0	0	28
Existing + Project	0	338	704	690	0	224	141	283	0	0	0	0	2380
Background + Project	0	357	764	748	0	233	146	293	0	0	0	0	2541
Cumulative + Project	0	360	812	789	0	252	158	297	0	0	0	0	2668

Intersection Number: 2
Traffix Node Number: 2
Intersection Name: University Avenue & Lark Avenue
Peak Hour: PM
Date of Analysis: 09/25/24
Count Date: 11/28/23

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	0	3	13	5	729	138	239	1	173	121	712	4	2138
Approved Project Trips													
1700 Dell Avenue (Campbell)	0	0	0	0	8	0	0	0	0	0	22	0	30
Samaritian Medical Expansion (SJ ATI)	0	0	0	0	29	0	0	0	0	0	12	0	41
North 40 Phase I	0	0	0	0	22	0	0	0	0	0	24	0	46
15475 Los Gatos Blvd	0	0	0	0	1	0	0	0	0	0	1	0	2
15860 Winchester Blvd	0	0	0	0	0	1	2	0	0	0	0	0	3
15600-15659 Los Gatos Blvd	0	0	0	0	6	0	0	0	0	0	6	0	12
Total Approved Trips	0	0	0	0	66	1	2	0	0	0	65	0	134
Background Conditions	0	3	13	5	795	139	241	1	173	121	777	4	2272
Pending Project Trips													
Samaritian Medical Expansion (SJ Pending)	0	0	0	0	22	0	0	0	0	0	8	0	30
14926 Los Gatos Blvd	0	0	0	0	0	0	0	0	0	0	0	0	0
14849 Los Gatos Boulevard	0	0	0	0	7	0	0	0	0	0	9	0	16
15300-15330 Los Gatos Boulevard	0	0	0	0	2	0	0	0	0	0	4	0	6
15349-15376 Los Gatos Boulevard	0	0	0	0	0	0	0	0	0	0	0	0	0
North 40 Phase II	0	0	0	0	20	0	0	0	0	0	27	0	47
14288 Capri Drive	0	0	0	0	0	0	0	0	0	0	0	0	0
15495 Los Gatos Boulevard	0	0	0	0	4	0	0	0	0	0	6	0	10
980 University Avenue	0	0	0	13	0	0	10	0	4	6	0	0	33
Total Approved Trips	0	0	0	13	55	0	10	0	4	6	54	0	142
Cumulative Conditions	0	3	13	18	850	139	251	1	177	127	831	4	2414
Project Trips	0	0	0	0	11	0	0	0	0	0	16	0	27
Existing + Project	0	3	13	5	740	138	239	1	173	121	728	4	2165
Background + Project	0	3	13	5	806	139	241	1	173	121	793	4	2299
Cumulative + Project	0	3	13	18	861	139	251	1	177	127	847	4	2441

Intersection Number: 3
Traffix Node Number: 3
Intersection Name: Mill Road/Arroyo Grand & Lark Avenue
Peak Hour: PM
Date of Analysis: 09/25/24
Count Date: 11/28/23

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	4	0	6	8	867	17	15	0	8	13	946	3	1887
Approved Project Trips													
1700 Dell Avenue (Campbell)	0	0	0	0	8	0	0	0	0	0	22	0	30
Samaritian Medical Expansion (SJ ATI)	0	0	0	0	29	0	0	0	0	0	12	0	41
North 40 Phase I	0	0	0	0	22	0	0	0	0	0	24	0	46
15475 Los Gatos Blvd	0	0	0	0	1	0	0	0	0	0	1	0	2
15860 Winchester Blvd	0	0	0	0	1	0	0	0	0	0	2	0	3
15600-15659 Los Gatos Blvd	0	0	0	0	6	0	0	0	0	0	6	0	12
Total Approved Trips	0	0	0	0	67	0	0	0	0	0	67	0	134
Background Conditions	4	0	6	8	934	17	15	0	8	13	1013	3	2021
Pending Project Trips													
Samaritian Medical Expansion (SJ Pending)	0	0	0	0	22	0	0	0	0	0	8	0	30
14926 Los Gatos Blvd	0	0	0	0	0	0	0	0	0	0	0	0	0
14849 Los Gatos Boulevard	0	0	0	0	7	0	0	0	0	0	9	0	16
15300-15330 Los Gatos Boulevard	0	0	0	0	2	0	0	0	0	0	4	0	6
15349-15376 Los Gatos Boulevard	0	0	0	0	0	0	0	0	0	0	0	0	0
North 40 Phase II	0	0	0	0	20	0	0	0	0	0	27	0	47
14288 Capri Drive	0	0	0	0	0	0	0	0	0	0	0	0	0
15495 Los Gatos Boulevard	0	0	0	0	4	0	0	0	0	0	6	0	10
980 University Avenue	0	0	0	0	13	0	0	0	0	0	10	0	23
Total Approved Trips	0	0	0	0	68	0	0	0	0	0	64	0	132
Cumulative Conditions	4	0	6	8	1002	17	15	0	8	13	1077	3	2153
Project Trips	0	0	0	0	11	0	0	0	0	0	16	0	27
Existing + Project	4	0	6	8	878	17	15	0	8	13	962	3	1914
Background + Project	4	0	6	8	945	17	15	0	8	13	1029	3	2048
Cumulative + Project	4	0	6	8	1013	17	15	0	8	13	1093	3	2180

Intersection Number: 4
Traffix Node Number: 4
Intersection Name: Oka Road & Lark Avenue
Peak Hour: PM
Date of Analysis: 09/25/24
Count Date: 11/28/23

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	84	0	142	171	818	2	0	0	0	0	904	59	2180
Approved Project Trips													
1700 Dell Avenue (Campbell)	0	0	0	0	8	0	0	0	0	0	22	0	30
Samaritian Medical Expansion (SJ ATI)	0	0	0	0	29	0	0	0	0	0	12	0	41
North 40 Phase I	0	0	0	0	22	0	0	0	0	0	24	0	46
15475 Los Gatos Blvd	0	0	0	0	1	0	0	0	0	0	1	0	2
15860 Winchester Blvd	0	0	0	0	1	0	0	0	0	0	2	0	3
15600-15659 Los Gatos Blvd	0	0	0	0	6	0	0	0	0	0	6	0	12
Total Approved Trips	0	0	0	0	67	0	0	0	0	0	67	0	134
Background Conditions	84	0	142	171	885	2	0	0	0	0	971	59	2314
Pending Project Trips													
Samaritian Medical Expansion (SJ Pending)	0	0	0	0	22	0	0	0	0	0	8	0	30
14926 Los Gatos Blvd	0	0	0	0	0	0	0	0	0	0	0	0	0
14849 Los Gatos Boulevard	0	0	0	0	7	0	0	0	0	0	9	0	16
15300-15330 Los Gatos Boulevard	0	0	0	0	2	0	0	0	0	0	4	0	6
15349-15376 Los Gatos Boulevard	0	0	0	0	0	0	0	0	0	0	0	0	0
North 40 Phase II	0	0	0	0	20	0	0	0	0	0	27	0	47
14288 Capri Drive	0	0	0	0	0	0	0	0	0	0	0	0	0
15495 Los Gatos Boulevard	0	0	0	0	4	0	0	0	0	0	6	0	10
980 University Avenue	0	0	0	0	13	0	0	0	0	0	10	0	23
Total Approved Trips	0	0	0	0	68	0	0	0	0	0	64	0	132
Cumulative Conditions	84	0	142	171	953	2	0	0	0	0	1035	59	2446
Project Trips	11	0	21	31	0	0	0	0	0	0	0	16	79
Existing + Project	95	0	163	202	818	2	0	0	0	0	904	75	2259
Background + Project	95	0	163	202	885	2	0	0	0	0	971	75	2393
Cumulative + Project	95	0	163	202	953	2	0	0	0	0	1035	75	2525

Intersection Number: 5
Traffix Node Number: 5
Intersection Name: SR 17 SB Ramps & Lark Avenue
Peak Hour: PM
Date of Analysis: 09/25/24
Count Date: 11/28/23

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	468	19	850	103	523	34	34	7	10	6	961	77	3092
Approved Project Trips													
1700 Dell Avenue (Campbell)	3	0	0	0	4	0	0	0	0	0	9	13	29
Samaritian Medical Expansion (SJ ATI)	0	0	19	30	29	0	0	0	0	0	12	0	90
North 40 Phase I	0	0	26	16	22	0	0	0	0	0	24	0	88
15475 Los Gatos Blvd	0	0	1	0	1	0	0	0	0	0	1	0	3
15860 Winchester Blvd	1	0	0	0	0	0	0	0	0	0	2	0	3
15600-15659 Los Gatos Blvd	0	0	12	0	6	3	3	0	0	0	6	0	30
Total Approved Trips	4	0	58	46	62	3	3	0	0	0	54	13	243
Background Conditions	472	19	908	149	585	37	37	7	10	6	1015	90	3335
Pending Project Trips													
Samaritian Medical Expansion (SJ Pending)	0	0	12	18	22	0	0	0	0	0	8	0	60
14926 Los Gatos Blvd	0	0	1	2	0	0	0	0	0	0	0	0	3
14849 Los Gatos Boulevard	0	0	10	5	7	0	0	0	0	0	9	0	31
15300-15330 Los Gatos Boulevard	0	0	12	10	2	0	0	0	0	0	4	0	28
15349-15376 Los Gatos Boulevard	0	0	3	2	0	0	0	0	0	0	0	0	5
North 40 Phase II	0	0	25	9	20	0	0	0	0	0	27	0	81
14288 Capri Drive	0	0	0	0	0	0	0	0	0	0	0	0	0
15495 Los Gatos Boulevard	0	0	10	2	4	0	0	0	0	0	6	0	22
980 University Avenue	7	0	0	0	7	0	0	0	0	0	9	2	25
Total Approved Trips	7	0	73	48	62	0	0	0	0	0	63	2	255
Cumulative Conditions	479	19	981	197	647	37	37	7	10	6	1078	92	3590
Project Trips	7	0	0	0	24	0	0	0	0	0	18	3	52
Existing + Project	475	19	850	103	547	34	34	7	10	6	979	80	3144
Background + Project	479	19	908	149	609	37	37	7	10	6	1033	93	3387
Cumulative + Project	486	19	981	197	671	37	37	7	10	6	1096	95	3642

Intersection Number: 6
Traffix Node Number: 6
Intersection Name: SR 17 NB Ramps & Lark Avenue
Peak Hour: PM
Date of Analysis: 09/25/24
Count Date: 11/28/23

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	0	0	0	601	582	0	96	0	85	0	1602	285	3251
Approved Project Trips													
1700 Dell Avenue (Campbell)	0	0	0	0	2	0	0	0	3	0	9	0	14
Samaritian Medical Expansion (SJ ATI)	0	0	0	48	59	0	12	0	0	0	31	0	150
North 40 Phase I	0	0	0	24	38	0	17	0	0	0	50	0	129
15475 Los Gatos Blvd	0	0	0	1	1	0	0	0	0	0	1	0	3
15860 Winchester Blvd	0	0	0	0	0	0	0	0	0	0	0	2	2
15600-15659 Los Gatos Blvd	0	0	0	12	9	0	0	0	0	0	21	0	42
Total Approved Trips	0	0	0	85	109	0	29	0	3	0	112	2	340
Background Conditions	0	0	0	686	691	0	125	0	88	0	1714	287	3591
Pending Project Trips													
Samaritian Medical Expansion (SJ Pending)	0	0	0	35	40	0	6	0	0	0	20	0	101
14926 Los Gatos Blvd	0	0	0	1	2	0	2	0	0	0	1	0	6
14849 Los Gatos Boulevard	0	0	0	8	13	0	6	0	0	0	19	0	46
15300-15330 Los Gatos Boulevard	0	0	0	10	12	0	12	0	0	0	15	0	49
15349-15376 Los Gatos Boulevard	0	0	0	2	2	0	3	0	0	0	3	0	10
North 40 Phase II	0	0	0	18	29	0	11	0	0	0	52	0	110
14288 Capri Drive	0	0	0	0	0	0	0	0	0	0	0	0	0
15495 Los Gatos Boulevard	0	0	0	6	6	0	3	0	0	0	16	0	31
980 University Avenue	0	0	0	0	4	0	0	0	2	0	3	5	14
Total Approved Trips	0	0	0	80	108	0	43	0	2	0	129	5	367
Cumulative Conditions	0	0	0	766	799	0	168	0	90	0	1843	292	3958
Project Trips	0	0	0	0	19	0	0	0	5	0	13	5	42
Existing + Project	0	0	0	601	601	0	96	0	90	0	1615	290	3293
Background + Project	0	0	0	686	710	0	125	0	93	0	1727	292	3633
Cumulative + Project	0	0	0	766	818	0	168	0	95	0	1856	297	4000

Intersection Number: 7
Traffix Node Number: 7
Intersection Name: Turner Street/Highland & Lark Avenue
Peak Hour: PM
Date of Analysis: 09/25/24
Count Date: 11/28/23

	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	19	0	0	15	1152	0	15	0	0	10	1653	20	2884
Approved Project Trips													
1700 Dell Avenue (Campbell)	0	0	0	0	2	0	0	0	0	0	9	0	11
Samaritian Medical Expansion (SJ ATI)	0	0	0	0	107	0	0	0	0	0	43	0	150
North 40 Phase I	22	0	0	0	40	0	0	0	0	0	55	12	129
15475 Los Gatos Blvd	0	0	0	0	1	0	0	0	0	0	1	0	2
15860 Winchester Blvd	0	0	0	0	0	0	0	0	0	0	0	0	0
15600-15659 Los Gatos Blvd	0	0	0	0	21	0	0	0	0	0	21	0	42
Total Approved Trips	22	0	0	0	171	0	0	0	0	0	129	12	334
Background Conditions	41	0	0	15	1323	0	15	0	0	10	1782	32	3218
Pending Project Trips													
Samaritian Medical Expansion (SJ Pending)	0	0	0	0	75	0	0	0	0	0	26	0	101
14926 Los Gatos Blvd	0	0	0	0	3	0	0	0	0	0	4	0	7
14849 Los Gatos Boulevard	0	0	0	0	21	0	0	0	0	0	25	0	46
15300-15330 Los Gatos Boulevard	0	0	0	0	23	0	0	0	0	0	28	0	51
15349-15376 Los Gatos Boulevard	0	0	0	0	4	0	0	0	0	0	5	0	9
North 40 Phase II	0	0	0	0	47	0	0	0	0	0	63	0	110
14288 Capri Drive	0	0	0	0	0	0	0	0	0	0	0	0	0
15495 Los Gatos Boulevard	0	0	0	0	12	0	0	0	0	0	19	0	31
980 University Avenue	0	0	0	0	4	0	0	0	0	0	3	0	7
Total Approved Trips	0	0	0	0	189	0	0	0	0	0	173	0	362
Cumulative Conditions	41	0	0	15	1512	0	15	0	0	10	1955	32	3580
Project Trips	0	0	0	0	19	0	0	0	0	0	13	0	32
Existing + Project	19	0	0	15	1171	0	15	0	0	10	1666	20	2916
Background + Project	41	0	0	15	1342	0	15	0	0	10	1795	32	3250
Cumulative + Project	41	0	0	15	1531	0	15	0	0	10	1968	32	3612

Intersection Number: 8
Traffix Node Number: 8
Intersection Name: Los Gatos Boulevard & Lark Avenue
Peak Hour: PM
Date of Analysis: 09/25/24
Count Date: 11/28/23

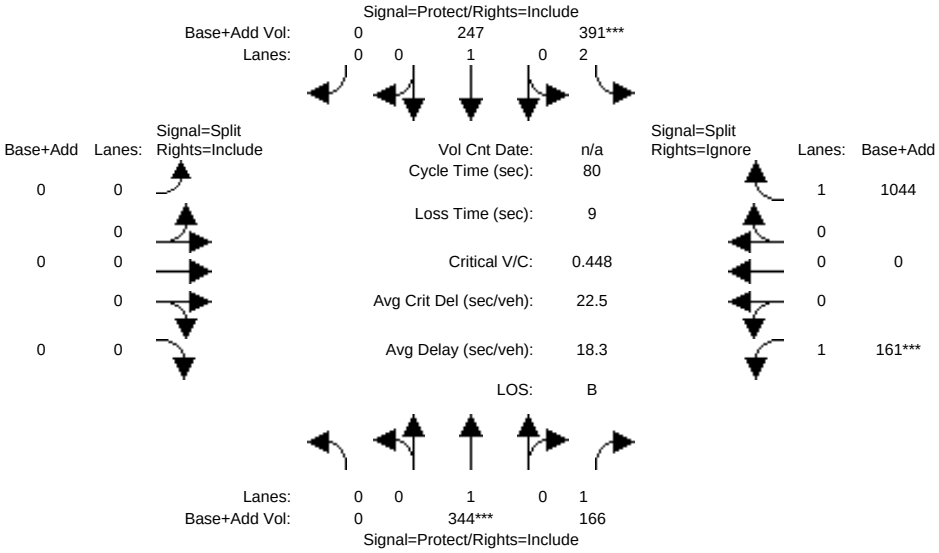
	Movements												
	North Approach			East Approach			South Approach			West Approach			
Scenario:	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	*Total*
Existing Conditions	494	683	28	35	43	55	33	594	616	1181	40	599	4401
Approved Project Trips													
1700 Dell Avenue (Campbell)	1	0	0	0	0	0	0	0	1	4	0	5	11
Samaritian Medical Expansion (SJ ATI)	107	27	0	0	0	0	0	11	0	0	0	43	188
North 40 Phase I	40	34	0	0	0	0	0	29	7	0	0	55	165
15475 Los Gatos Blvd	0	1	0	0	0	0	0	1	1	1	0	0	4
15860 Winchester Blvd	0	0	0	0	0	0	0	0	0	0	0	0	0
15600-15659 Los Gatos Blvd	0	27	0	0	0	0	0	27	21	21	0	0	96
Total Approved Trips	148	89	0	0	0	0	0	68	30	26	0	103	464
Background Conditions	642	772	28	35	43	55	33	662	646	1207	40	702	4865
Pending Project Trips													
Samaritian Medical Expansion (SJ Pending)	75	18	0	0	0	0	0	6	0	0	0	26	125
14926 Los Gatos Blvd	3	2	0	0	0	0	0	2	0	0	0	4	11
14849 Los Gatos Boulevard	21	11	0	0	0	0	0	13	0	0	0	25	70
15300-15330 Los Gatos Boulevard	0	24	0	0	0	0	0	20	40	28	0	0	112
15349-15376 Los Gatos Boulevard	0	5	0	0	0	0	0	4	4	5	0	0	18
North 40 Phase II	47	26	0	0	0	0	0	34	0	0	0	63	170
14288 Capri Drive	0	0	0	0	0	0	0	0	0	0	0	0	0
15495 Los Gatos Boulevard	0	19	0	0	0	0	0	12	12	19	0	0	62
980 University Avenue	4	0	0	0	0	0	0	0	0	0	0	3	7
Total Approved Trips	150	105	0	0	0	0	0	91	56	52	0	121	575
Cumulative Conditions	792	877	28	35	43	55	33	753	702	1259	40	823	5440
Project Trips	12	0	0	0	0	0	0	0	7	5	0	8	32
Existing + Project	506	683	28	35	43	55	33	594	623	1186	40	607	4433
Background + Project	654	772	28	35	43	55	33	662	653	1212	40	710	4897
Cumulative + Project	804	877	28	35	43	55	33	753	709	1264	40	831	5472

Appendix D

Level of Service Calculations

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing AM

Intersection #1: Winchester Blvd & Lark Ave



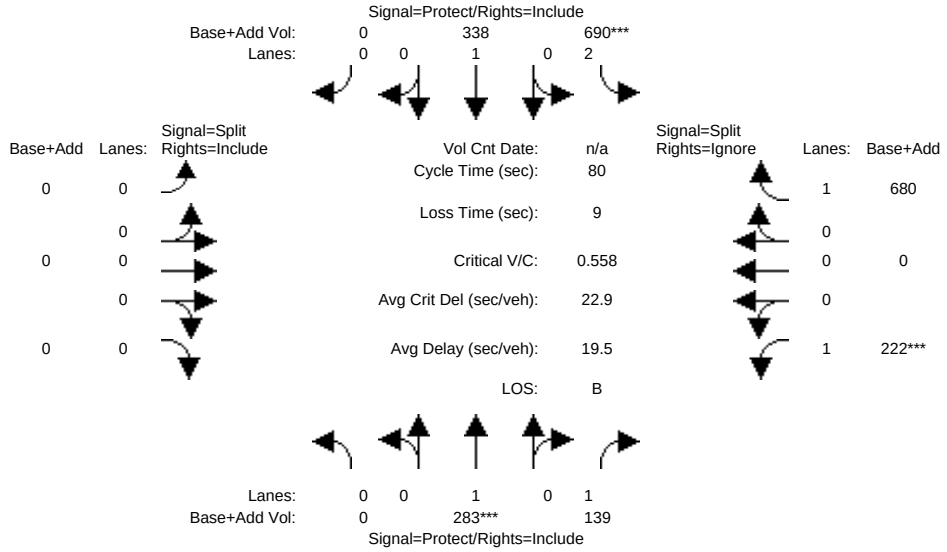
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	344	166	391	247	0	0	0	0	161	0	1044
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	344	166	391	247	0	0	0	0	161	0	1044
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	344	166	391	247	0	0	0	0	161	0	1044
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	344	166	391	247	0	0	0	0	161	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	344	166	391	247	0	0	0	0	161	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
FinalVolume:	0	344	166	391	247	0	0	0	0	161	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	1.00	1.00	2.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	1900	1750	3150	1900	0	0	0	0	1750	0	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.18	0.09	0.12	0.13	0.00	0.00	0.00	0.00	0.09	0.00	0.00
Crit Moves:		****		****						****		
Green/Cycle:	0.00	0.40	0.40	0.28	0.68	0.00	0.00	0.00	0.00	0.21	0.00	0.00
Volume/Cap:	0.00	0.45	0.23	0.45	0.19	0.00	0.00	0.00	0.00	0.45	0.00	0.00
Uniform Del:	0.0	17.3	15.7	23.8	4.7	0.0	0.0	0.0	0.0	27.8	0.0	0.0
IncremntDel:	0.0	0.4	0.2	0.4	0.1	0.0	0.0	0.0	0.0	0.9	0.0	0.0
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	0.00	1.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
Delay/Veh:	0.0	17.7	15.8	24.2	4.7	0.0	0.0	0.0	0.0	28.7	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	17.7	15.8	24.2	4.7	0.0	0.0	0.0	0.0	28.7	0.0	0.0
LOS by Move:	A	B	B	C	A	A	A	A	A	C	A	A
HCM2kAvgQ:	0	6	3	5	2	0	0	0	0	4	0	0

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing PM

Intersection #1: Winchester Blvd & Lark Ave



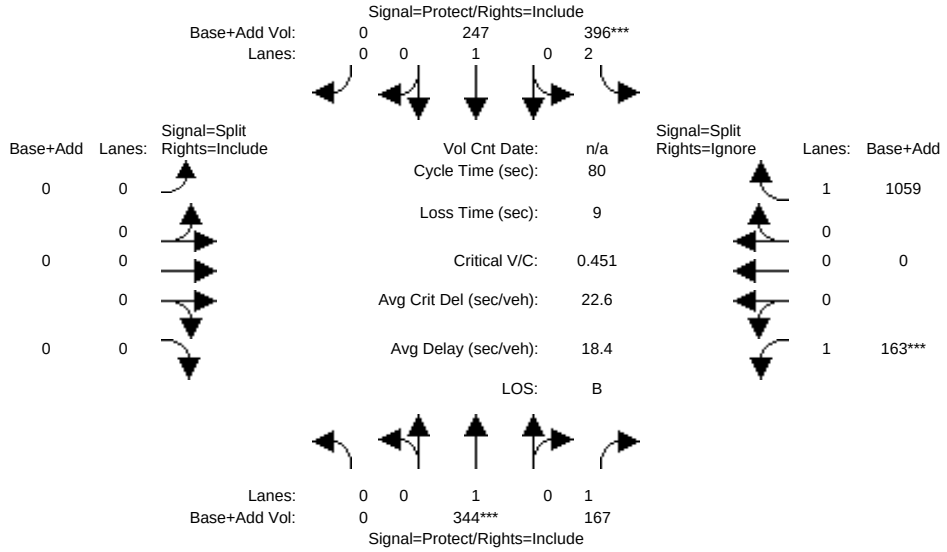
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	283	139	690	338	0	0	0	0	222	0	680
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	283	139	690	338	0	0	0	0	222	0	680
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	283	139	690	338	0	0	0	0	222	0	680
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	283	139	690	338	0	0	0	0	222	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	283	139	690	338	0	0	0	0	222	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
FinalVolume:	0	283	139	690	338	0	0	0	0	222	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	1.00	1.00	2.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	1900	1750	3150	1900	0	0	0	0	1750	0	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.15	0.08	0.22	0.18	0.00	0.00	0.00	0.00	0.13	0.00	0.00
Crit Moves:		****		****						****		
Green/Cycle:	0.00	0.27	0.27	0.39	0.66	0.00	0.00	0.00	0.00	0.23	0.00	0.00
Volume/Cap:	0.00	0.56	0.30	0.56	0.27	0.00	0.00	0.00	0.00	0.56	0.00	0.00
Uniform Del:	0.0	25.2	23.3	18.9	5.6	0.0	0.0	0.0	0.0	27.3	0.0	0.0
IncremntDel:	0.0	1.4	0.4	0.6	0.1	0.0	0.0	0.0	0.0	1.8	0.0	0.0
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	0.00	1.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
Delay/Veh:	0.0	26.6	23.7	19.5	5.7	0.0	0.0	0.0	0.0	29.1	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	26.6	23.7	19.5	5.7	0.0	0.0	0.0	0.0	29.1	0.0	0.0
LOS by Move:	A	C	C	B	A	A	A	A	A	C	A	A
HCM2kAvgQ:	0	7	3	8	3	0	0	0	0	5	0	0

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing AM +P

Intersection #1: Winchester Blvd & Lark Ave



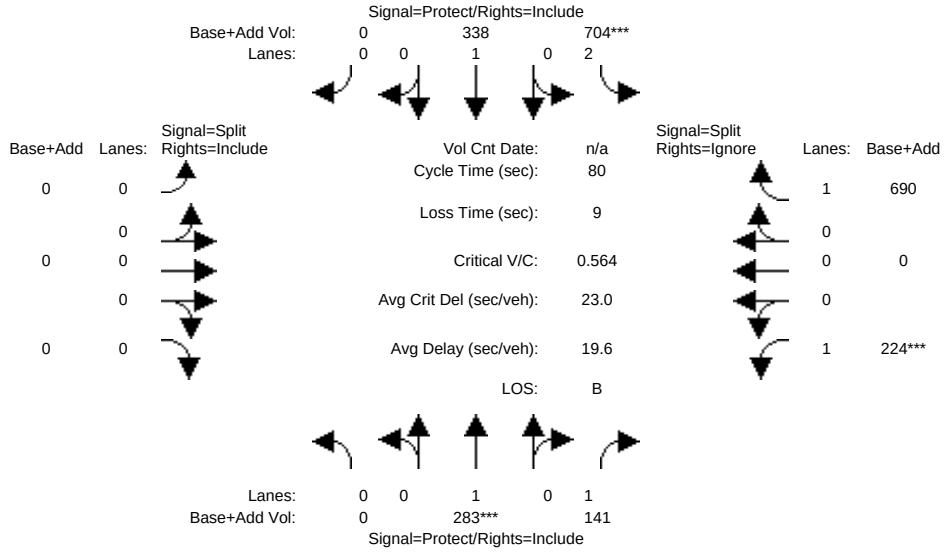
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	344	166	391	247	0	0	0	0	161	0	1044
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	344	166	391	247	0	0	0	0	161	0	1044
Added Vol:	0	0	1	5	0	0	0	0	0	2	0	15
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	344	167	396	247	0	0	0	0	163	0	1059
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	344	167	396	247	0	0	0	0	163	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	344	167	396	247	0	0	0	0	163	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
FinalVolume:	0	344	167	396	247	0	0	0	0	163	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	1.00	1.00	2.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	1900	1750	3150	1900	0	0	0	0	1750	0	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.18	0.10	0.13	0.13	0.00	0.00	0.00	0.00	0.09	0.00	0.00
Crit Moves:		****		****						****		
Green/Cycle:	0.00	0.40	0.40	0.28	0.68	0.00	0.00	0.00	0.00	0.21	0.00	0.00
Volume/Cap:	0.00	0.45	0.24	0.45	0.19	0.00	0.00	0.00	0.00	0.45	0.00	0.00
Uniform Del:	0.0	17.5	15.8	23.8	4.7	0.0	0.0	0.0	0.0	27.8	0.0	0.0
IncremntDel:	0.0	0.4	0.2	0.4	0.1	0.0	0.0	0.0	0.0	0.9	0.0	0.0
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	0.00	1.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
Delay/Veh:	0.0	17.9	16.0	24.2	4.8	0.0	0.0	0.0	0.0	28.7	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	17.9	16.0	24.2	4.8	0.0	0.0	0.0	0.0	28.7	0.0	0.0
LOS by Move:	A	B	B	C	A	A	A	A	A	C	A	A
HCM2kAvgQ:	0	6	3	5	2	0	0	0	0	4	0	0

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing PM +P

Intersection #1: Winchester Blvd & Lark Ave



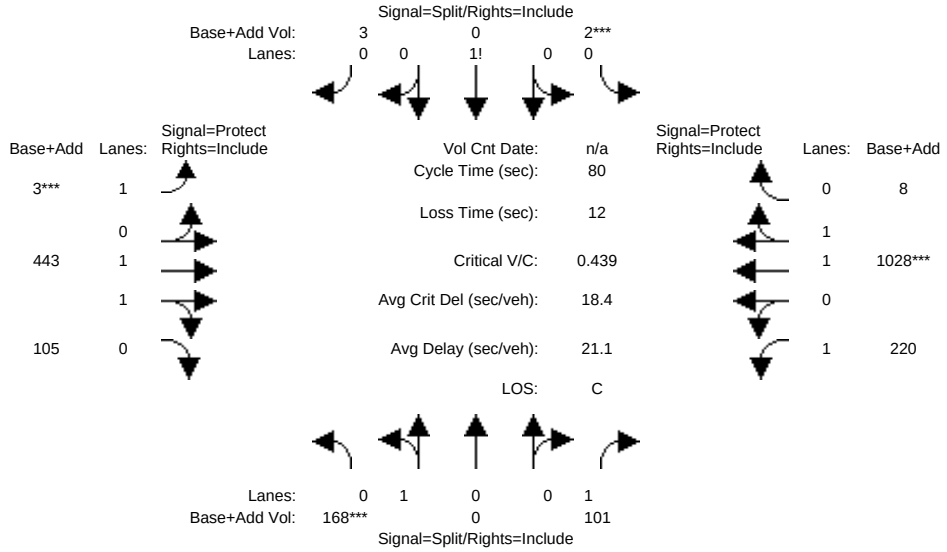
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	283	139	690	338	0	0	0	0	222	0	680
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	283	139	690	338	0	0	0	0	222	0	680
Added Vol:	0	0	2	14	0	0	0	0	0	2	0	10
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	283	141	704	338	0	0	0	0	224	0	690
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	283	141	704	338	0	0	0	0	224	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	283	141	704	338	0	0	0	0	224	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
FinalVolume:	0	283	141	704	338	0	0	0	0	224	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	1.00	1.00	2.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	1900	1750	3150	1900	0	0	0	0	1750	0	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.15	0.08	0.22	0.18	0.00	0.00	0.00	0.00	0.13	0.00	0.00
Crit Moves:		****		****						****		
Green/Cycle:	0.00	0.26	0.26	0.40	0.66	0.00	0.00	0.00	0.00	0.23	0.00	0.00
Volume/Cap:	0.00	0.56	0.31	0.56	0.27	0.00	0.00	0.00	0.00	0.56	0.00	0.00
Uniform Del:	0.0	25.4	23.6	18.8	5.6	0.0	0.0	0.0	0.0	27.4	0.0	0.0
IncremntDel:	0.0	1.5	0.4	0.6	0.1	0.0	0.0	0.0	0.0	1.9	0.0	0.0
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	0.00	1.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
Delay/Veh:	0.0	26.9	23.9	19.4	5.7	0.0	0.0	0.0	0.0	29.3	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	26.9	23.9	19.4	5.7	0.0	0.0	0.0	0.0	29.3	0.0	0.0
LOS by Move:	A	C	C	B	A	A	A	A	A	C	A	A
HCM2kAvgQ:	0	7	3	9	3	0	0	0	0	5	0	0

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing AM

Intersection #2: University Ave & Lark Ave



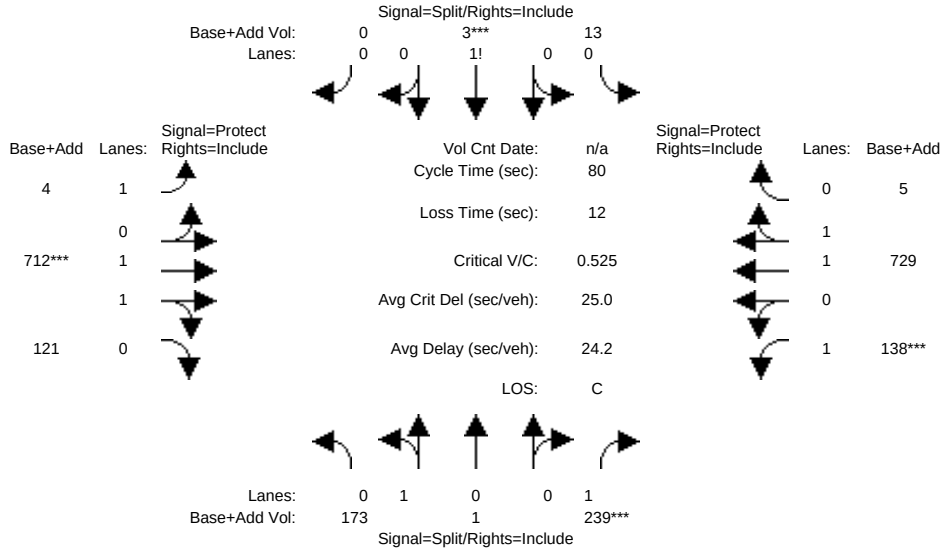
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	168	0	101	2	0	3	3	443	105	220	1028	8
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	168	0	101	2	0	3	3	443	105	220	1028	8
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	168	0	101	2	0	3	3	443	105	220	1028	8
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	168	0	101	2	0	3	3	443	105	220	1028	8
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	168	0	101	2	0	3	3	443	105	220	1028	8
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	168	0	101	2	0	3	3	443	105	220	1028	8
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	1.00	0.00	1.00	0.40	0.00	0.60	1.00	1.59	0.41	1.00	1.98	0.02
Final Sat.:	1750	0	1750	700	0	1050	1750	3022	716	1750	3768	29
Capacity Analysis Module:												
Vol/Sat:	0.10	0.00	0.06	0.00	0.00	0.00	0.00	0.15	0.15	0.13	0.27	0.27
Crit Moves:	****			****			****				****	
Green/Cycle:	0.17	0.00	0.17	0.13	0.00	0.13	0.09	0.30	0.30	0.26	0.47	0.47
Volume/Cap:	0.58	0.00	0.35	0.02	0.00	0.02	0.02	0.49	0.49	0.49	0.58	0.58
Uniform Del:	30.8	0.0	29.5	30.7	0.0	30.7	33.4	22.9	22.9	25.2	15.4	15.4
IncremntDel:	2.9	0.0	0.7	0.0	0.0	0.0	0.1	0.3	0.3	0.8	0.5	0.5
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	33.7	0.0	30.3	30.8	0.0	30.8	33.4	23.2	23.2	26.0	15.8	15.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	33.7	0.0	30.3	30.8	0.0	30.8	33.4	23.2	23.2	26.0	15.8	15.8
LOS by Move:	C	A	C	C	A	C	C	C	C	C	B	B
HCM2kAvgQ:	5	0	3	0	0	0	0	6	6	5	9	9

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing PM

Intersection #2: University Ave & Lark Ave



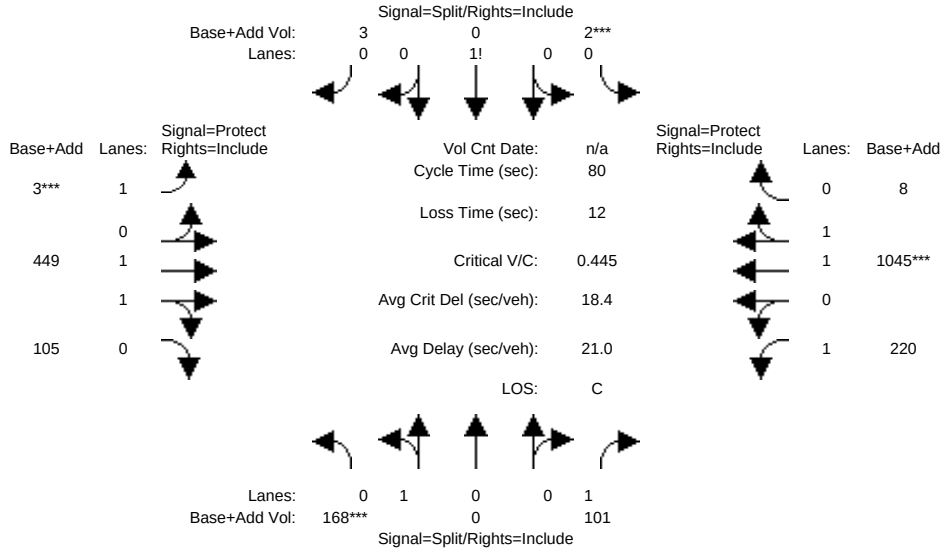
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	173	1	239	13	3	0	4	712	121	138	729	5
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	173	1	239	13	3	0	4	712	121	138	729	5
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	173	1	239	13	3	0	4	712	121	138	729	5
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	173	1	239	13	3	0	4	712	121	138	729	5
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	173	1	239	13	3	0	4	712	121	138	729	5
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	173	1	239	13	3	0	4	712	121	138	729	5
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.99	0.01	1.00	0.82	0.18	0.00	1.00	1.69	0.31	1.00	1.99	0.01
Final Sat.:	1741	10	1750	1443	333	0	1750	3208	545	1750	3772	26
Capacity Analysis Module:												
Vol/Sat:	0.10	0.10	0.14	0.01	0.01	0.00	0.00	0.22	0.22	0.08	0.19	0.19
Crit Moves:			****		****			****		****		
Green/Cycle:	0.23	0.23	0.23	0.13	0.13	0.00	0.16	0.37	0.37	0.13	0.34	0.34
Volume/Cap:	0.44	0.44	0.60	0.07	0.07	0.00	0.01	0.60	0.60	0.60	0.56	0.56
Uniform Del:	26.6	26.6	27.7	30.9	30.9	0.0	28.6	20.5	20.5	32.8	21.4	21.4
IncremntDel:	0.8	0.8	2.6	0.1	0.1	0.0	0.0	0.8	0.8	4.5	0.6	0.6
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	27.4	27.4	30.3	31.0	31.0	0.0	28.6	21.3	21.3	37.3	22.0	22.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	27.4	27.4	30.3	31.0	31.0	0.0	28.6	21.3	21.3	37.3	22.0	22.0
LOS by Move:	C	C	C	C	C	A	C	C	C	D	C	C
HCM2kAvgQ:	4	4	7	0	0	0	0	8	8	4	7	7

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing AM +P

Intersection #2: University Ave & Lark Ave



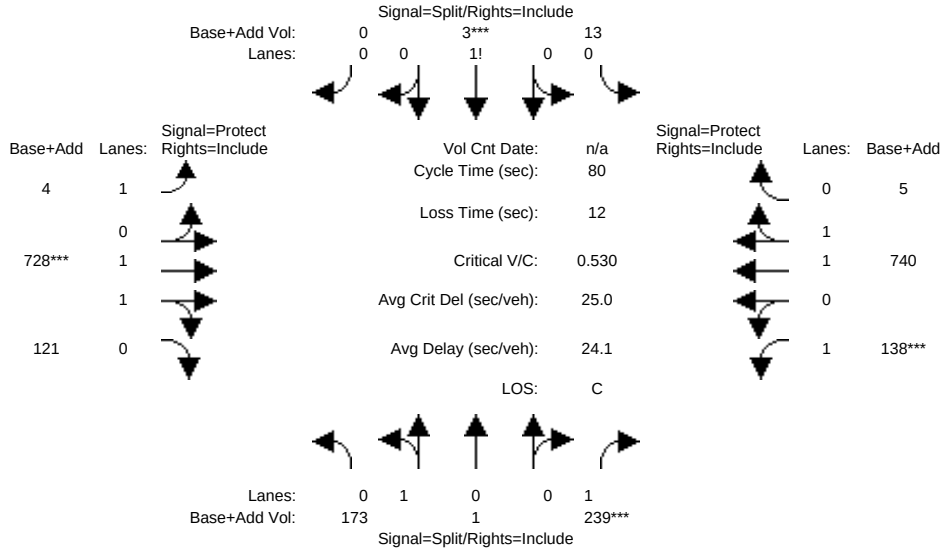
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	168	0	101	2	0	3	3	443	105	220	1028	8
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	168	0	101	2	0	3	3	443	105	220	1028	8
Added Vol:	0	0	0	0	0	0	0	6	0	0	17	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	168	0	101	2	0	3	3	449	105	220	1045	8
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	168	0	101	2	0	3	3	449	105	220	1045	8
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	168	0	101	2	0	3	3	449	105	220	1045	8
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	168	0	101	2	0	3	3	449	105	220	1045	8
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	1.00	0.00	1.00	0.40	0.00	0.60	1.00	1.60	0.40	1.00	1.98	0.02
Final Sat.:	1750	0	1750	700	0	1050	1750	3031	709	1750	3769	29
Capacity Analysis Module:												
Vol/Sat:	0.10	0.00	0.06	0.00	0.00	0.00	0.00	0.15	0.15	0.13	0.28	0.28
Crit Moves:	****			****			****				****	
Green/Cycle:	0.16	0.00	0.16	0.13	0.00	0.13	0.09	0.30	0.30	0.26	0.47	0.47
Volume/Cap:	0.59	0.00	0.35	0.02	0.00	0.02	0.02	0.49	0.49	0.49	0.59	0.59
Uniform Del:	30.9	0.0	29.7	30.7	0.0	30.7	33.4	22.8	22.8	25.2	15.3	15.3
IncremntDel:	3.1	0.0	0.7	0.0	0.0	0.0	0.1	0.3	0.3	0.8	0.5	0.5
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	34.0	0.0	30.4	30.8	0.0	30.8	33.4	23.1	23.1	26.1	15.8	15.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	34.0	0.0	30.4	30.8	0.0	30.8	33.4	23.1	23.1	26.1	15.8	15.8
LOS by Move:	C	A	C	C	A	C	C	C	C	C	B	B
HCM2kAvgQ:	5	0	3	0	0	0	0	6	6	5	9	9

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing PM +P

Intersection #2: University Ave & Lark Ave



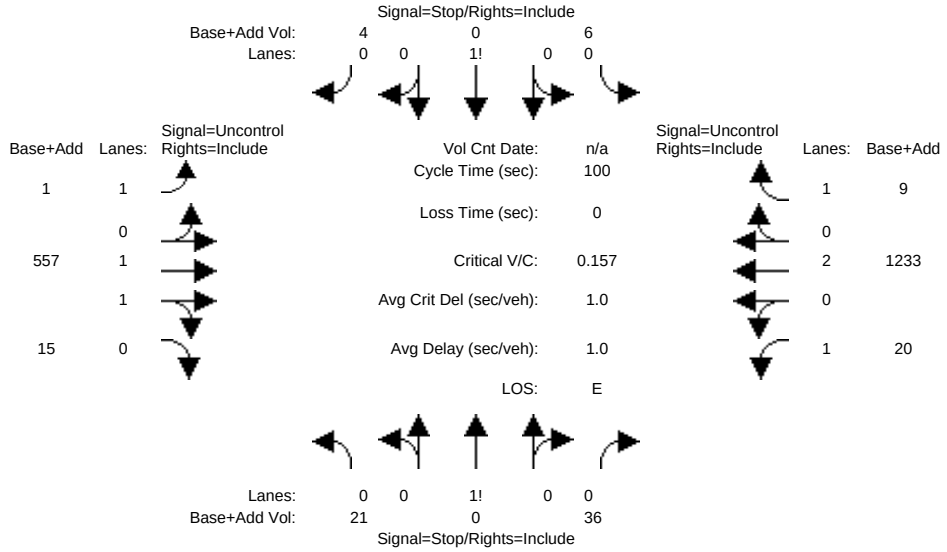
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	173	1	239	13	3	0	4	712	121	138	729	5
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	173	1	239	13	3	0	4	712	121	138	729	5
Added Vol:	0	0	0	0	0	0	0	16	0	0	11	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	173	1	239	13	3	0	4	728	121	138	740	5
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	173	1	239	13	3	0	4	728	121	138	740	5
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	173	1	239	13	3	0	4	728	121	138	740	5
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	173	1	239	13	3	0	4	728	121	138	740	5
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.99	0.01	1.00	0.82	0.18	0.00	1.00	1.69	0.31	1.00	1.99	0.01
Final Sat.:	1741	10	1750	1443	333	0	1750	3219	535	1750	3772	25
Capacity Analysis Module:												
Vol/Sat:	0.10	0.10	0.14	0.01	0.01	0.00	0.00	0.23	0.23	0.08	0.20	0.20
Crit Moves:			****		****			****		****		
Green/Cycle:	0.22	0.22	0.22	0.13	0.13	0.00	0.15	0.37	0.37	0.13	0.35	0.35
Volume/Cap:	0.44	0.44	0.61	0.07	0.07	0.00	0.01	0.61	0.61	0.61	0.57	0.57
Uniform Del:	26.7	26.7	27.9	30.9	30.9	0.0	28.7	20.4	20.4	32.9	21.3	21.3
IncremntDel:	0.8	0.8	2.8	0.1	0.1	0.0	0.0	0.8	0.8	4.8	0.6	0.6
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	27.5	27.5	30.7	31.0	31.0	0.0	28.7	21.2	21.2	37.7	21.8	21.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	27.5	27.5	30.7	31.0	31.0	0.0	28.7	21.2	21.2	37.7	21.8	21.8
LOS by Move:	C	C	C	C	C	A	C	C	C	D	C	C
HCM2kAvgQ:	4	4	7	0	0	0	0	9	9	4	7	7

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Alternative)
Existing AM

Intersection #3: Mill Rd/Arroyo Grande Way & Lark Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module:												
Base Vol:	21	0	36	6	0	4	1	557	15	20	1233	9
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	21	0	36	6	0	4	1	557	15	20	1233	9
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	21	0	36	6	0	4	1	557	15	20	1233	9
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	21	0	36	6	0	4	1	557	15	20	1233	9
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	21	0	36	6	0	4	1	557	15	20	1233	9
Critical Gap Module:												
Critical Gp:	7.5	6.5	6.9	7.5	6.5	6.9	4.1	xxxx	xxxxx	4.1	xxxx	xxxxx
FollowUpTim:	3.5	4.0	3.3	3.5	4.0	3.3	2.2	xxxx	xxxxx	2.2	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	1223	1849	286	1554	1847	617	1242	xxxx	xxxxx	572	xxxx	xxxxx
Potent Cap.:	138	75	717	78	75	438	568	xxxx	xxxxx	1011	xxxx	xxxxx
Move Cap.:	134	74	717	73	74	438	568	xxxx	xxxxx	1011	xxxx	xxxxx
Volume/Cap:	0.16	0.00	0.05	0.08	0.00	0.01	0.00	xxxx	xxxx	0.02	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.0	xxxx	xxxxx	0.1	xxxx	xxxxx
Control Del:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	11.4	xxxx	xxxxx	8.6	xxxx	xxxxx
LOS by Move:	*	*	*	*	*	*	B	*	*	A	*	*
Movement:	LT -	LTR -	RT	LT -	LTR -	RT	LT -	LTR -	RT	LT -	LTR -	RT
Shared Cap.:	xxxx	276	xxxxx	xxxx	110	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	0.8	xxxxx	xxxxx	0.3	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	21.4	xxxxx	xxxxx	41.1	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	C	*	*	E	*	*	*	*	*	*	*
ApproachDel:		21.4			41.1		xxxxxx			xxxxxx		
ApproachLOS:		C			E		*			*		

Note: Queue reported is the number of cars per lane.

Peak Hour Delay Signal Warrant Report

****

Intersection #3 Mill Rd/Arroyo Grande Way & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 1!	0	0	0 0 1!	0	0	1 0	1	1 0	1 0	2	0 1
Initial Vol:	21	0	36	6	0	4	1	557	15	20	1233	9
ApproachDel:	21.4			41.1			xxxxxx			xxxxxx		

Approach[northbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.3]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=57]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=1902]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[southbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=10]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=1902]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER
This peak hour signal warrant analysis should be considered solely as an "indicator" of the likelihood of an unsignalized intersection warranting a traffic signal in the future. Intersections that exceed this warrant are probably more likely to meet one or more of the other volume based signal warrant (such as the 4-hour or 8-hour warrants).

The peak hour warrant analysis in this report is not intended to replace a rigorous and complete traffic signal warrant analysis by the responsible jurisdiction. Consideration of the other signal warrants, which is beyond the scope of this software, may yield different results.

Peak Hour Volume Signal Warrant Report [Urban]

****

Intersection #3 Mill Rd/Arroyo Grande Way & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 1!	0	0	0 0 1!	0	0	1 0	1	1 0	1 0	2	0 1
Initial Vol:	21	0	36	6	0	4	1	557	15	20	1233	9

Major Street Volume: 1835
Minor Approach Volume: 57
Minor Approach Volume Threshold: 76 [less than minimum of 100]

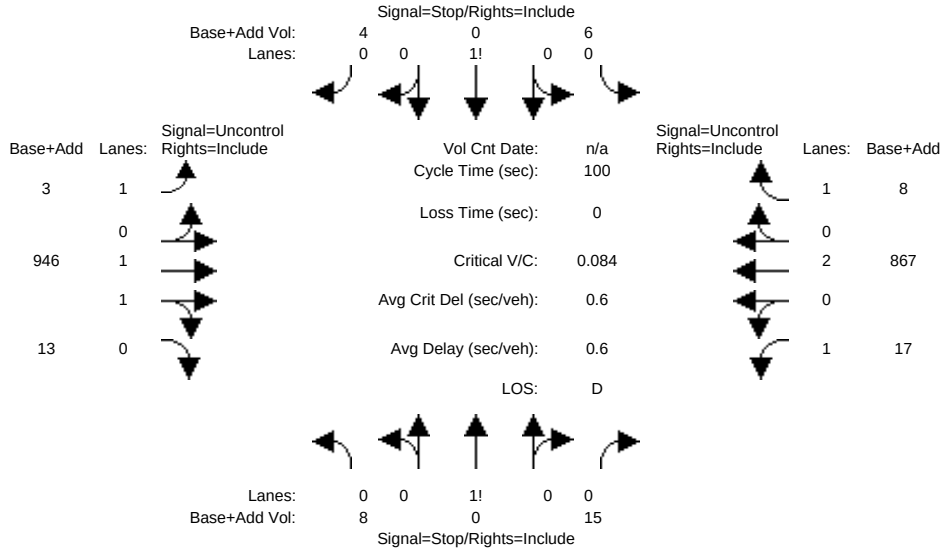
SIGNAL WARRANT DISCLAIMER
This peak hour signal warrant analysis should be considered solely as an "indicator" of the likelihood of an unsignalized intersection warranting a traffic signal in the future. Intersections that exceed this warrant are probably more likely to meet one or more of the other volume based signal warrant (such as the 4-hour or 8-hour warrants).

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Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Alternative)
Existing PM

Intersection #3: Mill Rd/Arroyo Grande Way & Lark Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module:												
Base Vol:	8	0	15	6	0	4	3	946	13	17	867	8
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	8	0	15	6	0	4	3	946	13	17	867	8
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	8	0	15	6	0	4	3	946	13	17	867	8
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	8	0	15	6	0	4	3	946	13	17	867	8
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	8	0	15	6	0	4	3	946	13	17	867	8
Critical Gap Module:												
Critical Gp:	7.5	6.5	6.9	7.5	6.5	6.9	4.1	xxxx	xxxxx	4.1	xxxx	xxxxx
FollowUpTim:	3.5	4.0	3.3	3.5	4.0	3.3	2.2	xxxx	xxxxx	2.2	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	1426	1868	480	1380	1866	434	875	xxxx	xxxxx	959	xxxx	xxxxx
Potent Cap.:	97	73	538	105	73	576	780	xxxx	xxxxx	725	xxxx	xxxxx
Move Cap.:	95	71	538	100	71	576	780	xxxx	xxxxx	725	xxxx	xxxxx
Volume/Cap:	0.08	0.00	0.03	0.06	0.00	0.01	0.00	xxxx	xxxx	0.02	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.0	xxxx	xxxxx	0.1	xxxx	xxxxx
Control Del:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	9.6	xxxx	xxxxx	10.1	xxxx	xxxxx
LOS by Move:	*	*	*	*	*	*	A	*	*	B	*	*
Movement:	LT - LTR - RT			LT - LTR - RT			LT - LTR - RT			LT - LTR - RT		
Shared Cap.:	xxxx	205	xxxxx	xxxx	150	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	0.4	xxxxx	xxxxx	0.2	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	24.8	xxxxx	xxxxx	30.7	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	C	*	*	D	*	*	*	*	*	*	*
ApproachDel:		24.8			30.7		xxxxxx			xxxxxx		
ApproachLOS:		C			D		*			*		

Note: Queue reported is the number of cars per lane.

Peak Hour Delay Signal Warrant Report

****

Intersection #3 Mill Rd/Arroyo Grande Way & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 1!	0	0	0 0 1!	0	0	1 0	1	1 0	1 0	2	0 1
Initial Vol:	8	0	15	6	0	4	3	946	13	17	867	8
ApproachDel:	24.8			30.7			xxxxxx			xxxxxx		

Approach[northbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.2]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=23]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=1887]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[southbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=10]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=1887]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER
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Peak Hour Volume Signal Warrant Report [Urban]

****

Intersection #3 Mill Rd/Arroyo Grande Way & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 1!	0	0	0 0 1!	0	0	1 0	1	1 0	1 0	2	0 1
Initial Vol:	8	0	15	6	0	4	3	946	13	17	867	8

Major Street Volume: 1854
Minor Approach Volume: 23
Minor Approach Volume Threshold: 72 [less than minimum of 100]

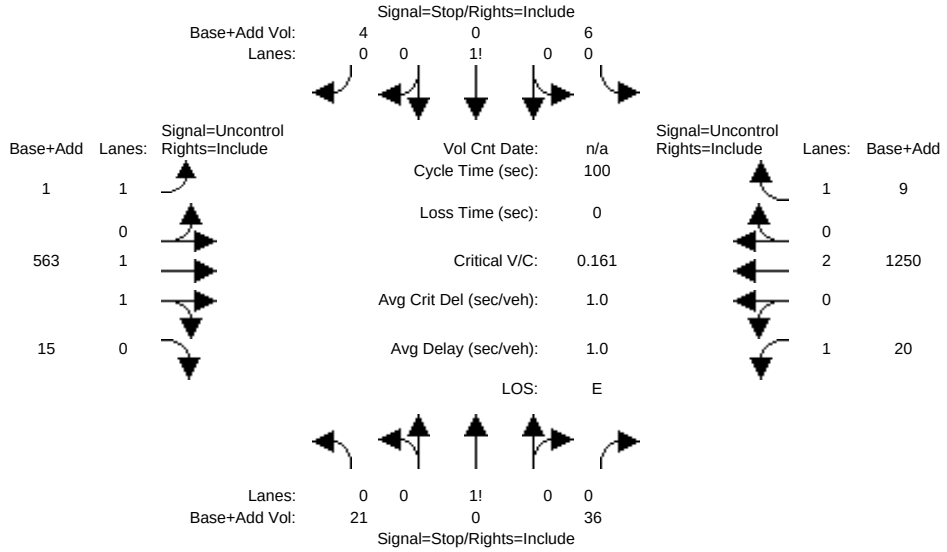
SIGNAL WARRANT DISCLAIMER
This peak hour signal warrant analysis should be considered solely as an "indicator" of the likelihood of an unsignalized intersection warranting a traffic signal in the future. Intersections that exceed this warrant are probably more likely to meet one or more of the other volume based signal warrant (such as the 4-hour or 8-hour warrants).

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Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Alternative)
Existing AM +P

Intersection #3: Mill Rd/Arroyo Grande Way & Lark Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module:												
Base Vol:	21	0	36	6	0	4	1	557	15	20	1233	9
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	21	0	36	6	0	4	1	557	15	20	1233	9
Added Vol:	0	0	0	0	0	0	0	6	0	0	17	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	21	0	36	6	0	4	1	563	15	20	1250	9
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	21	0	36	6	0	4	1	563	15	20	1250	9
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	21	0	36	6	0	4	1	563	15	20	1250	9
Critical Gap Module:												
Critical Gp:	7.5	6.5	6.9	7.5	6.5	6.9	4.1	xxxx	xxxxx	4.1	xxxx	xxxxx
FollowUpTim:	3.5	4.0	3.3	3.5	4.0	3.3	2.2	xxxx	xxxxx	2.2	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	1238	1872	289	1574	1870	625	1259	xxxx	xxxxx	578	xxxx	xxxxx
Potent Cap.:	134	73	714	76	73	433	559	xxxx	xxxxx	1006	xxxx	xxxxx
Move Cap.:	131	71	714	71	71	433	559	xxxx	xxxxx	1006	xxxx	xxxxx
Volume/Cap:	0.16	0.00	0.05	0.08	0.00	0.01	0.00	xxxx	xxxx	0.02	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.0	xxxx	xxxxx	0.1	xxxx	xxxxx
Control Del:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	11.4	xxxx	xxxxx	8.7	xxxx	xxxxx
LOS by Move:	*	*	*	*	*	*	B	*	*	A	*	*
Movement:	LT - LTR - RT			LT - LTR - RT			LT - LTR - RT			LT - LTR - RT		
Shared Cap.:	xxxx	270	xxxxx	xxxx	106	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	0.8	xxxxx	xxxxx	0.3	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	21.9	xxxxx	xxxxx	42.4	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	C	*	*	E	*	*	*	*	*	*	*
ApproachDel:		21.9			42.4		xxxxxx			xxxxxx		
ApproachLOS:		C			E		*			*		

Note: Queue reported is the number of cars per lane.

Peak Hour Delay Signal Warrant Report

****

Intersection #3 Mill Rd/Arroyo Grande Way & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 1!	0	0	0 0 1!	0	0	1 0	1	1 0	1 0	2	0 1
Initial Vol:	21	0	36	6	0	4	1	563	15	20	1250	9
ApproachDel:	21.9			42.4			xxxxxx			xxxxxx		

Approach[northbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.3]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=57]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=1925]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[southbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=10]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=1925]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER
This peak hour signal warrant analysis should be considered solely as an "indicator" of the likelihood of an unsignalized intersection warranting a traffic signal in the future. Intersections that exceed this warrant are probably more likely to meet one or more of the other volume based signal warrant (such as the 4-hour or 8-hour warrants).

The peak hour warrant analysis in this report is not intended to replace a rigorous and complete traffic signal warrant analysis by the responsible jurisdiction. Consideration of the other signal warrants, which is beyond the scope of this software, may yield different results.

Peak Hour Volume Signal Warrant Report [Urban]

****

Intersection #3 Mill Rd/Arroyo Grande Way & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 1!	0	0	0 0 1!	0	0	1 0	1	1 0	1 0	2	0 1
Initial Vol:	21	0	36	6	0	4	1	563	15	20	1250	9

Major Street Volume: 1858
Minor Approach Volume: 57
Minor Approach Volume Threshold: 71 [less than minimum of 100]

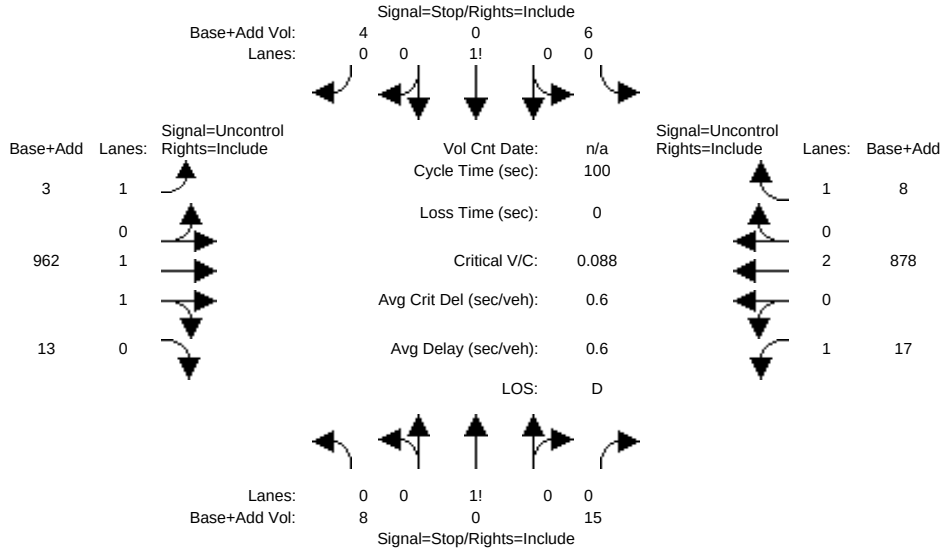
SIGNAL WARRANT DISCLAIMER
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Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Alternative)
Existing PM +P

Intersection #3: Mill Rd/Arroyo Grande Way & Lark Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module:												
Base Vol:	8	0	15	6	0	4	3	946	13	17	867	8
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	8	0	15	6	0	4	3	946	13	17	867	8
Added Vol:	0	0	0	0	0	0	0	16	0	0	11	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	8	0	15	6	0	4	3	962	13	17	878	8
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	8	0	15	6	0	4	3	962	13	17	878	8
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	8	0	15	6	0	4	3	962	13	17	878	8
Critical Gap Module:												
Critical Gp:	7.5	6.5	6.9	7.5	6.5	6.9	4.1	xxxx	xxxxx	4.1	xxxx	xxxxx
FollowUpTim:	3.5	4.0	3.3	3.5	4.0	3.3	2.2	xxxx	xxxxx	2.2	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	1448	1895	488	1399	1893	439	886	xxxx	xxxxx	975	xxxx	xxxxx
Potent Cap.:	94	71	531	102	71	571	773	xxxx	xxxxx	716	xxxx	xxxxx
Move Cap.:	91	69	531	97	69	571	773	xxxx	xxxxx	716	xxxx	xxxxx
Volume/Cap:	0.09	0.00	0.03	0.06	0.00	0.01	0.00	xxxx	xxxx	0.02	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.0	xxxx	xxxxx	0.1	xxxx	xxxxx
Control Del:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	9.7	xxxx	xxxxx	10.2	xxxx	xxxxx
LOS by Move:	*	*	*	*	*	*	A	*	*	B	*	*
Movement:	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT
Shared Cap.:	xxxx	199	xxxxx	xxxx	145	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	0.4	xxxxx	xxxxx	0.2	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	25.5	xxxxx	xxxxx	31.6	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	D	*	*	D	*	*	*	*	*	*	*
ApproachDel:		25.5			31.6		xxxxxx			xxxxxx		
ApproachLOS:		D			D		*			*		

Note: Queue reported is the number of cars per lane.

Peak Hour Delay Signal Warrant Report

****

Intersection #3 Mill Rd/Arroyo Grande Way & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 1!	0	0	0 0 1!	0	0	1 0 1	1	0	1 0 2	0	1
Initial Vol:	8	0	15	6	0	4	3	962	13	17	878	8
ApproachDel:	25.5			31.6			xxxxxx			xxxxxx		

Approach[northbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.2]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=23]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=1914]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[southbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=10]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=1914]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER
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Peak Hour Volume Signal Warrant Report [Urban]

****

Intersection #3 Mill Rd/Arroyo Grande Way & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 1!	0	0	0 0 1!	0	0	1 0 1	1	0	1 0 2	0	1
Initial Vol:	8	0	15	6	0	4	3	962	13	17	878	8

Major Street Volume: 1881
Minor Approach Volume: 23
Minor Approach Volume Threshold: 67 [less than minimum of 100]

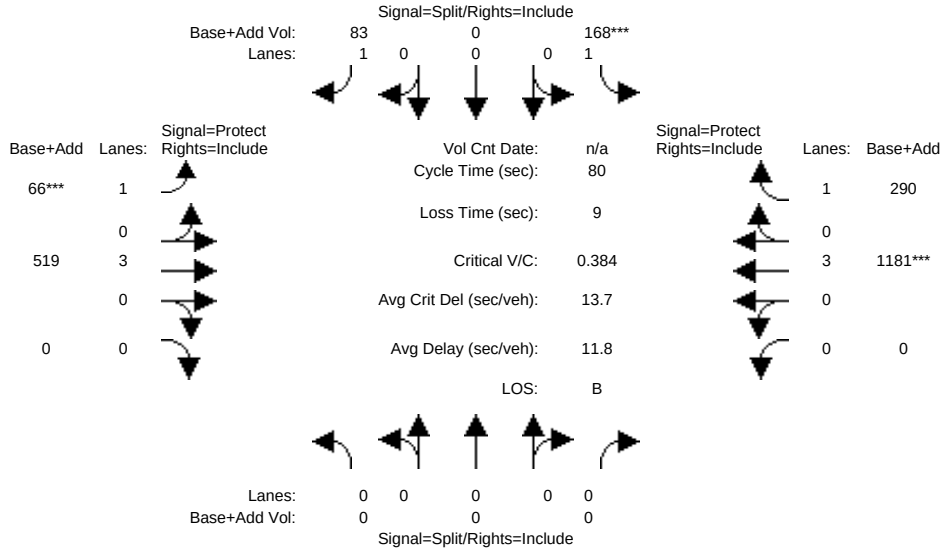
SIGNAL WARRANT DISCLAIMER
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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing AM

Intersection #4: Oka Rd & Lark Ave



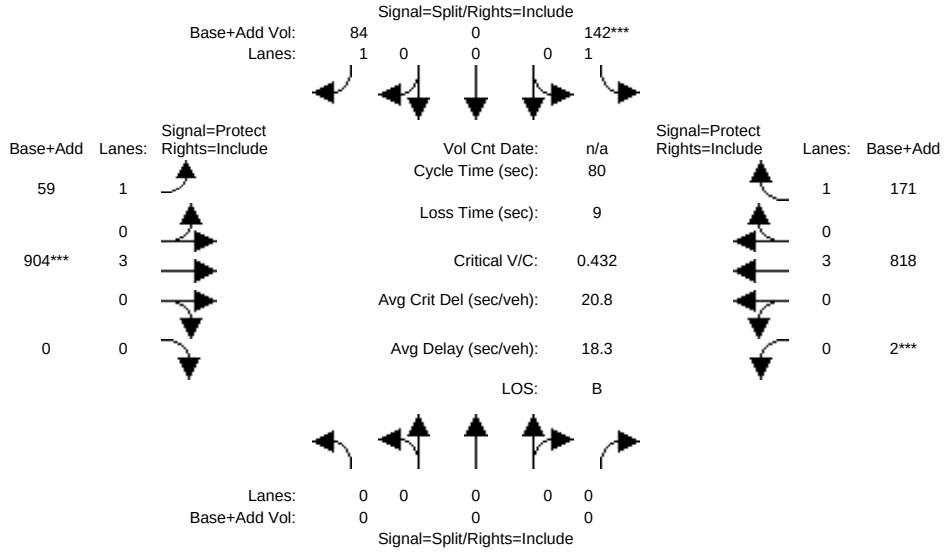
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	0	0	168	0	83	66	519	0	0	1181	290
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	168	0	83	66	519	0	0	1181	290
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	168	0	83	66	519	0	0	1181	290
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	168	0	83	66	519	0	0	1181	290
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	168	0	83	66	519	0	0	1181	290
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	168	0	83	66	519	0	0	1181	290
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	3.00	0.00	0.00	3.00	1.00
Final Sat.:	0	0	0	1750	0	1750	1750	5700	0	0	5700	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.10	0.00	0.05	0.04	0.09	0.00	0.00	0.21	0.17
Crit Moves:				****			****				****	
Green/Cycle:	0.00	0.00	0.00	0.25	0.00	0.25	0.10	0.64	0.00	0.00	0.54	0.54
Volume/Cap:	0.00	0.00	0.00	0.38	0.00	0.19	0.38	0.14	0.00	0.00	0.38	0.31
Uniform Del:	0.0	0.0	0.0	24.9	0.0	23.6	33.8	5.8	0.0	0.0	10.7	10.2
IncremntDel:	0.0	0.0	0.0	0.6	0.0	0.2	1.4	0.0	0.0	0.0	0.1	0.2
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Delay/Veh:	0.0	0.0	0.0	25.5	0.0	23.8	35.2	5.8	0.0	0.0	10.8	10.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	25.5	0.0	23.8	35.2	5.8	0.0	0.0	10.8	10.4
LOS by Move:	A	A	A	C	A	C	D	A	A	A	B	B
HCM2kAvgQ:	0	0	0	4	0	2	2	2	0	0	5	4

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing PM

Intersection #4: Oka Rd & Lark Ave



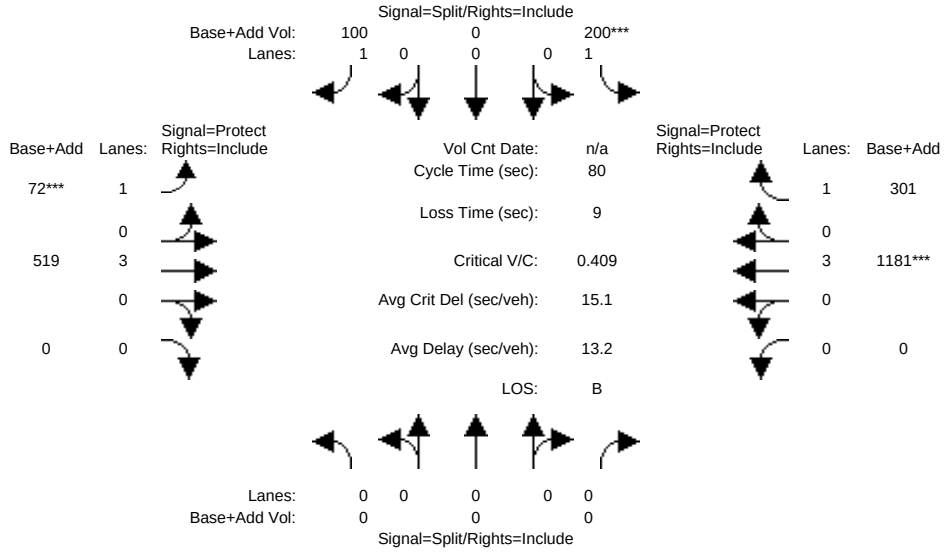
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	0	0	142	0	84	59	904	0	2	818	171
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	142	0	84	59	904	0	2	818	171
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	142	0	84	59	904	0	2	818	171
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	142	0	84	59	904	0	2	818	171
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	142	0	84	59	904	0	2	818	171
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	142	0	84	59	904	0	2	818	171
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	3.00	0.00	0.01	2.99	1.00
Final Sat.:	0	0	0	1750	0	1750	1750	5700	0	14	5685	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.08	0.00	0.05	0.03	0.16	0.00	0.14	0.14	0.10
Crit Moves:				****				****		****		
Green/Cycle:	0.00	0.00	0.00	0.19	0.00	0.19	0.26	0.37	0.00	0.33	0.44	0.44
Volume/Cap:	0.00	0.00	0.00	0.43	0.00	0.26	0.13	0.43	0.00	0.43	0.33	0.22
Uniform Del:	0.0	0.0	0.0	28.7	0.0	27.7	22.4	19.1	0.0	20.8	14.9	14.1
IncremntDel:	0.0	0.0	0.0	0.9	0.0	0.4	0.1	0.1	0.0	0.2	0.1	0.2
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Delay/Veh:	0.0	0.0	0.0	29.6	0.0	28.1	22.5	19.2	0.0	21.0	15.0	14.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	29.6	0.0	28.1	22.5	19.2	0.0	21.0	15.0	14.3
LOS by Move:	A	A	A	C	A	C	C	B	A	C	B	B
HCM2kAvgQ:	0	0	0	4	0	2	1	5	0	5	4	3

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing AM +P

Intersection #4: Oka Rd & Lark Ave



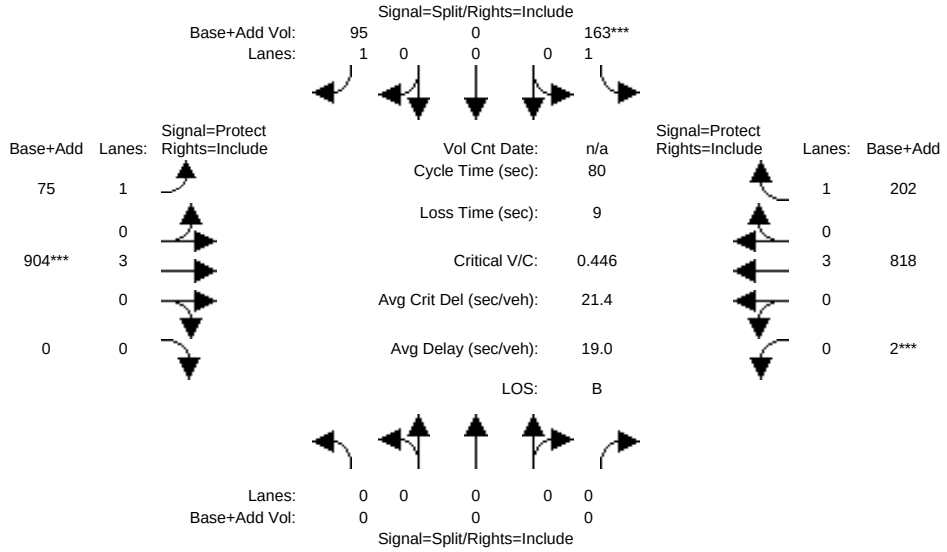
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	0	0	168	0	83	66	519	0	0	1181	290
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	168	0	83	66	519	0	0	1181	290
Added Vol:	0	0	0	32	0	17	6	0	0	0	0	11
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	200	0	100	72	519	0	0	1181	301
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	200	0	100	72	519	0	0	1181	301
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	200	0	100	72	519	0	0	1181	301
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	200	0	100	72	519	0	0	1181	301
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	3.00	0.00	0.00	3.00	1.00
Final Sat.:	0	0	0	1750	0	1750	1750	5700	0	0	5700	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.11	0.00	0.06	0.04	0.09	0.00	0.00	0.21	0.17
Crit Moves:				****			****				****	
Green/Cycle:	0.00	0.00	0.00	0.28	0.00	0.28	0.10	0.61	0.00	0.00	0.51	0.51
Volume/Cap:	0.00	0.00	0.00	0.41	0.00	0.20	0.41	0.15	0.00	0.00	0.41	0.34
Uniform Del:	0.0	0.0	0.0	23.4	0.0	22.0	33.7	6.8	0.0	0.0	12.3	11.7
IncremntDel:	0.0	0.0	0.0	0.6	0.0	0.2	1.5	0.0	0.0	0.0	0.1	0.2
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Delay/Veh:	0.0	0.0	0.0	24.0	0.0	22.2	35.3	6.8	0.0	0.0	12.4	12.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	24.0	0.0	22.2	35.3	6.8	0.0	0.0	12.4	12.0
LOS by Move:	A	A	A	C	A	C	D	A	A	A	B	B
HCM2kAvgQ:	0	0	0	5	0	2	2	2	0	0	6	5

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing PM +P

Intersection #4: Oka Rd & Lark Ave



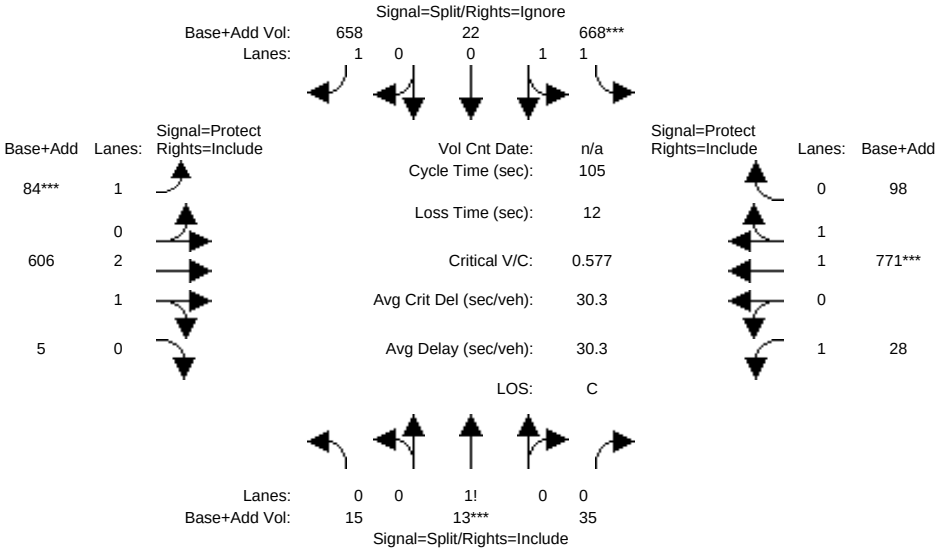
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	0	0	142	0	84	59	904	0	2	818	171
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	142	0	84	59	904	0	2	818	171
Added Vol:	0	0	0	21	0	11	16	0	0	0	0	31
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	163	0	95	75	904	0	2	818	202
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	163	0	95	75	904	0	2	818	202
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	163	0	95	75	904	0	2	818	202
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	163	0	95	75	904	0	2	818	202
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	3.00	0.00	0.01	2.99	1.00
Final Sat.:	0	0	0	1750	0	1750	1750	5700	0	14	5685	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.09	0.00	0.05	0.04	0.16	0.00	0.14	0.14	0.12
Crit Moves:				****				****		****		
Green/Cycle:	0.00	0.00	0.00	0.21	0.00	0.21	0.26	0.36	0.00	0.32	0.42	0.42
Volume/Cap:	0.00	0.00	0.00	0.45	0.00	0.26	0.17	0.45	0.00	0.45	0.34	0.27
Uniform Del:	0.0	0.0	0.0	27.6	0.0	26.5	23.1	19.7	0.0	21.4	15.6	15.1
IncremntDel:	0.0	0.0	0.0	0.9	0.0	0.4	0.2	0.2	0.0	0.2	0.1	0.2
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Delay/Veh:	0.0	0.0	0.0	28.5	0.0	26.8	23.3	19.9	0.0	21.6	15.7	15.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	28.5	0.0	26.8	23.3	19.9	0.0	21.6	15.7	15.3
LOS by Move:	A	A	A	C	A	C	C	B	A	C	B	B
HCM2kAvgQ:	0	0	0	4	0	2	1	5	0	5	4	3

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing AM

Intersection #5: SB 17 Ramp & Lark Ave



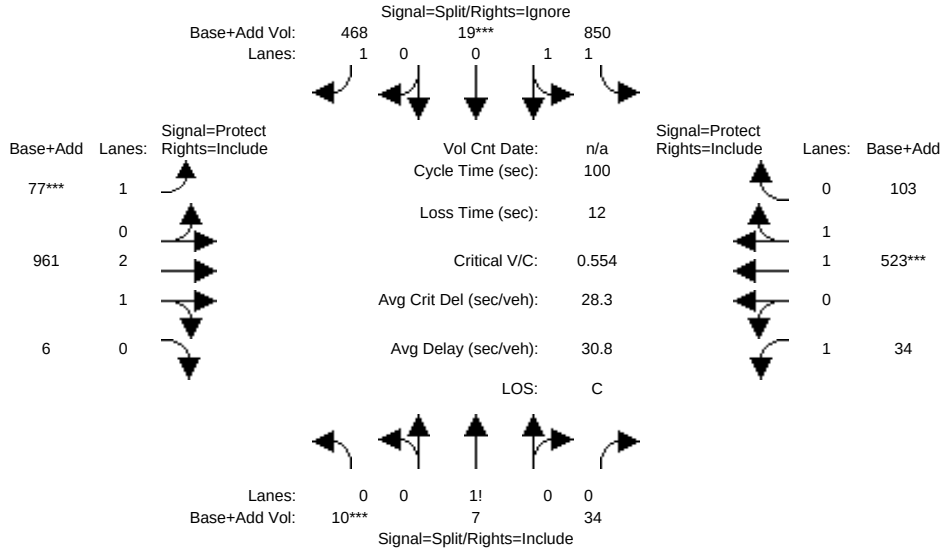
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	15	13	35	668	22	658	84	606	5	28	771	98
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	15	13	35	668	22	658	84	606	5	28	771	98
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	15	13	35	668	22	658	84	606	5	28	771	98
User Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	15	13	35	668	22	0	84	606	5	28	771	98
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	15	13	35	668	22	0	84	606	5	28	771	98
PCE Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	15	13	35	668	22	0	84	606	5	28	771	98
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.24	0.19	0.57	1.94	0.06	1.00	1.00	2.97	0.03	1.00	1.76	0.24
Final Sat.:	424	367	988	3397	112	1750	1750	5649	47	1750	3339	424
Capacity Analysis Module:												
Vol/Sat:	0.04	0.04	0.04	0.20	0.20	0.00	0.05	0.11	0.11	0.02	0.23	0.23
Crit Moves:		****		****			****				****	
Green/Cycle:	0.10	0.10	0.10	0.33	0.33	0.00	0.08	0.29	0.29	0.18	0.38	0.38
Volume/Cap:	0.37	0.37	0.37	0.60	0.60	0.00	0.60	0.38	0.38	0.09	0.60	0.60
Uniform Del:	44.6	44.6	44.6	29.6	29.6	0.0	46.7	30.0	30.0	36.1	25.9	25.9
IncremntDel:	1.4	1.4	1.4	0.9	0.9	0.0	7.2	0.1	0.1	0.1	0.7	0.7
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	45.9	45.9	45.9	30.5	30.5	0.0	53.9	30.1	30.1	36.2	26.6	26.6
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	45.9	45.9	45.9	30.5	30.5	0.0	53.9	30.1	30.1	36.2	26.6	26.6
LOS by Move:	D	D	D	C	C	A	D	C	C	D	C	C
HCM2kAvgQ:	2	2	2	11	11	0	3	5	5	1	11	11

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing PM

Intersection #5: SB 17 Ramp & Lark Ave



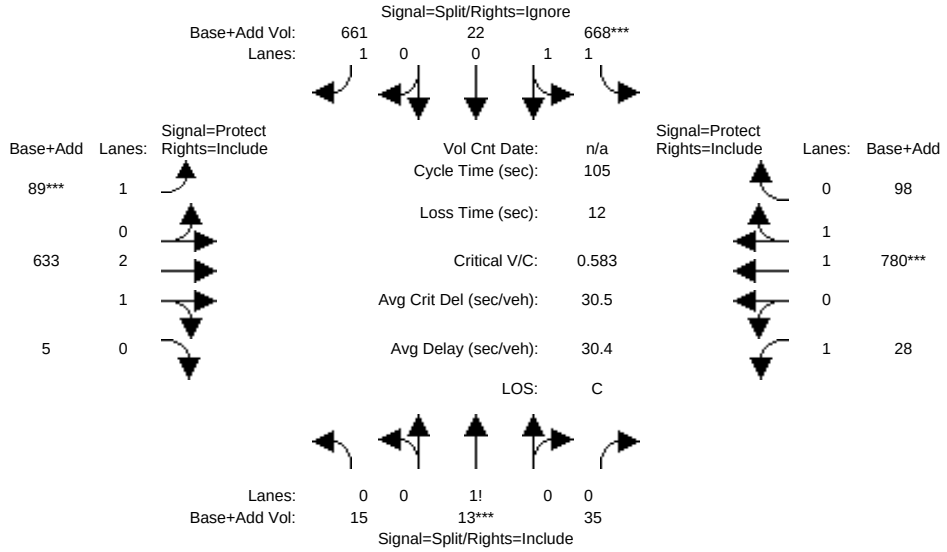
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	10	7	34	850	19	468	77	961	6	34	523	103
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	10	7	34	850	19	468	77	961	6	34	523	103
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	10	7	34	850	19	468	77	961	6	34	523	103
User Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	10	7	34	850	19	0	77	961	6	34	523	103
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	10	7	34	850	19	0	77	961	6	34	523	103
PCE Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	10	7	34	850	19	0	77	961	6	34	523	103
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.20	0.13	0.67	1.96	0.04	1.00	1.00	2.98	0.02	1.00	1.65	0.35
Final Sat.:	347	243	1179	3429	77	1750	1750	5662	35	1750	3131	617
Capacity Analysis Module:												
Vol/Sat:	0.03	0.03	0.03	0.25	0.25	0.00	0.04	0.17	0.17	0.02	0.17	0.17
Crit Moves:	****				****		****				****	
Green/Cycle:	0.10	0.10	0.10	0.42	0.42	0.00	0.07	0.25	0.25	0.10	0.28	0.28
Volume/Cap:	0.29	0.29	0.29	0.59	0.59	0.00	0.59	0.67	0.67	0.19	0.59	0.59
Uniform Del:	41.7	41.7	41.7	22.3	22.3	0.0	44.8	33.5	33.5	40.9	30.8	30.8
IncremntDel:	0.9	0.9	0.9	0.6	0.6	0.0	6.9	1.2	1.2	0.5	0.9	0.9
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	42.6	42.6	42.6	22.9	22.9	0.0	51.6	34.7	34.7	41.4	31.6	31.6
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	42.6	42.6	42.6	22.9	22.9	0.0	51.6	34.7	34.7	41.4	31.6	31.6
LOS by Move:	D	D	D	C	C	A	D	C	C	D	C	C
HCM2kAvgQ:	2	2	2	11	11	0	3	9	9	1	8	8

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing AM +P

Intersection #5: SB 17 Ramp & Lark Ave



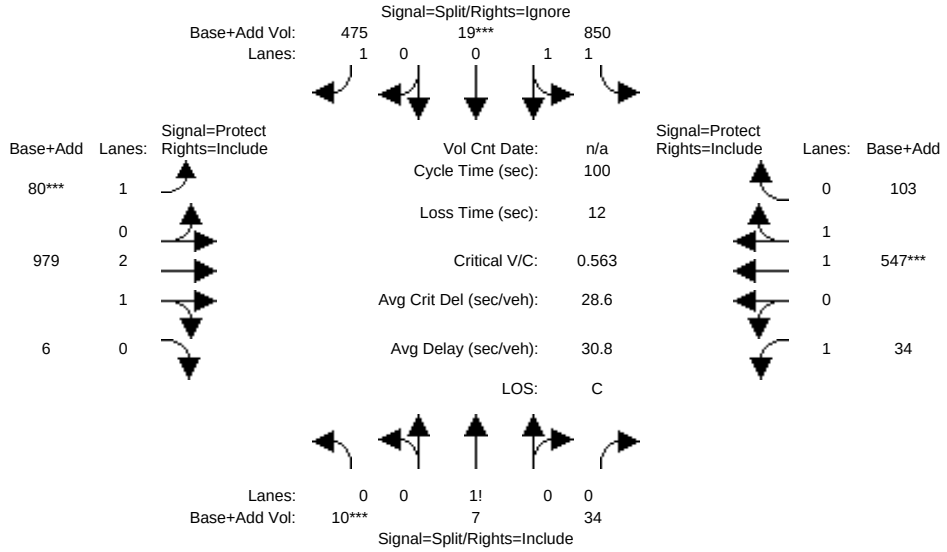
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	15	13	35	668	22	658	84	606	5	28	771	98
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	15	13	35	668	22	658	84	606	5	28	771	98
Added Vol:	0	0	0	0	0	3	5	27	0	0	9	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	15	13	35	668	22	661	89	633	5	28	780	98
User Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	15	13	35	668	22	0	89	633	5	28	780	98
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	15	13	35	668	22	0	89	633	5	28	780	98
PCE Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	15	13	35	668	22	0	89	633	5	28	780	98
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.24	0.19	0.57	1.94	0.06	1.00	1.00	2.97	0.03	1.00	1.76	0.24
Final Sat.:	424	367	988	3397	112	1750	1750	5652	45	1750	3344	420
Capacity Analysis Module:												
Vol/Sat:	0.04	0.04	0.04	0.20	0.20	0.00	0.05	0.11	0.11	0.02	0.23	0.23
Crit Moves:		****		****			****				****	
Green/Cycle:	0.10	0.10	0.10	0.32	0.32	0.00	0.08	0.29	0.29	0.17	0.38	0.38
Volume/Cap:	0.37	0.37	0.37	0.61	0.61	0.00	0.61	0.38	0.38	0.09	0.61	0.61
Uniform Del:	44.6	44.6	44.6	29.9	29.9	0.0	46.4	29.6	29.6	36.4	26.0	26.0
IncremntDel:	1.4	1.4	1.4	1.0	1.0	0.0	7.2	0.1	0.1	0.1	0.8	0.8
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	45.9	45.9	45.9	30.9	30.9	0.0	53.7	29.7	29.7	36.5	26.8	26.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	45.9	45.9	45.9	30.9	30.9	0.0	53.7	29.7	29.7	36.5	26.8	26.8
LOS by Move:	D	D	D	C	C	A	D	C	C	D	C	C
HCM2kAvgQ:	2	2	2	11	11	0	3	5	5	1	11	11

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing PM +P

Intersection #5: SB 17 Ramp & Lark Ave



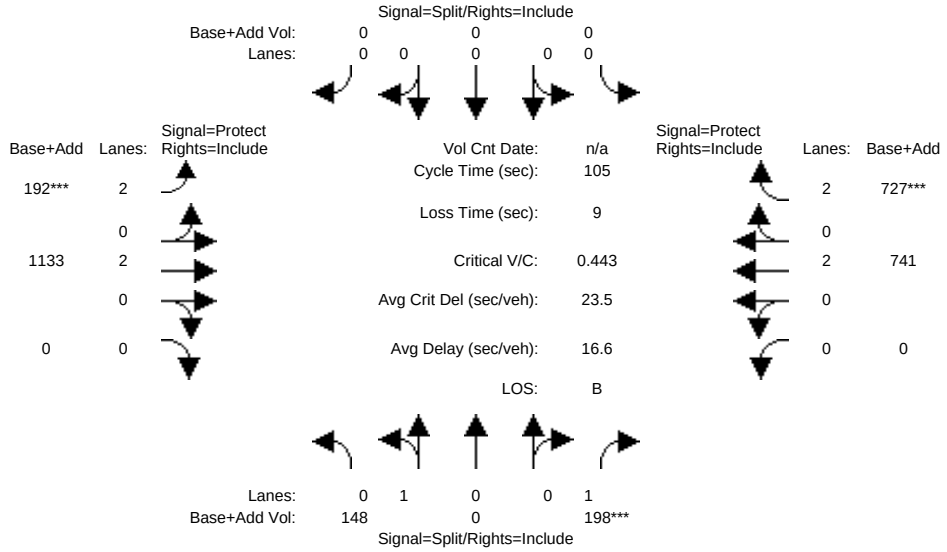
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	10	7	34	850	19	468	77	961	6	34	523	103
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	10	7	34	850	19	468	77	961	6	34	523	103
Added Vol:	0	0	0	0	0	7	3	18	0	0	24	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	10	7	34	850	19	475	80	979	6	34	547	103
User Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	10	7	34	850	19	0	80	979	6	34	547	103
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	10	7	34	850	19	0	80	979	6	34	547	103
PCE Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	10	7	34	850	19	0	80	979	6	34	547	103
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.20	0.13	0.67	1.96	0.04	1.00	1.00	2.98	0.02	1.00	1.66	0.34
Final Sat.:	347	243	1179	3429	77	1750	1750	5662	35	1750	3155	594
Capacity Analysis Module:												
Vol/Sat:	0.03	0.03	0.03	0.25	0.25	0.00	0.05	0.17	0.17	0.02	0.17	0.17
Crit Moves:	****				****		****				****	
Green/Cycle:	0.10	0.10	0.10	0.41	0.41	0.00	0.08	0.26	0.26	0.11	0.29	0.29
Volume/Cap:	0.29	0.29	0.29	0.60	0.60	0.00	0.60	0.66	0.66	0.18	0.60	0.60
Uniform Del:	41.7	41.7	41.7	22.8	22.8	0.0	44.7	33.1	33.1	40.8	30.5	30.5
IncremntDel:	0.9	0.9	0.9	0.7	0.7	0.0	7.3	1.1	1.1	0.5	0.9	0.9
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	42.6	42.6	42.6	23.5	23.5	0.0	52.0	34.2	34.2	41.3	31.5	31.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	42.6	42.6	42.6	23.5	23.5	0.0	52.0	34.2	34.2	41.3	31.5	31.5
LOS by Move:	D	D	D	C	C	A	D	C	C	D	C	C
HCM2kAvgQ:	2	2	2	12	12	0	3	9	9	1	9	9

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing AM

Intersection #6: NB 17 Ramp & Lark Ave



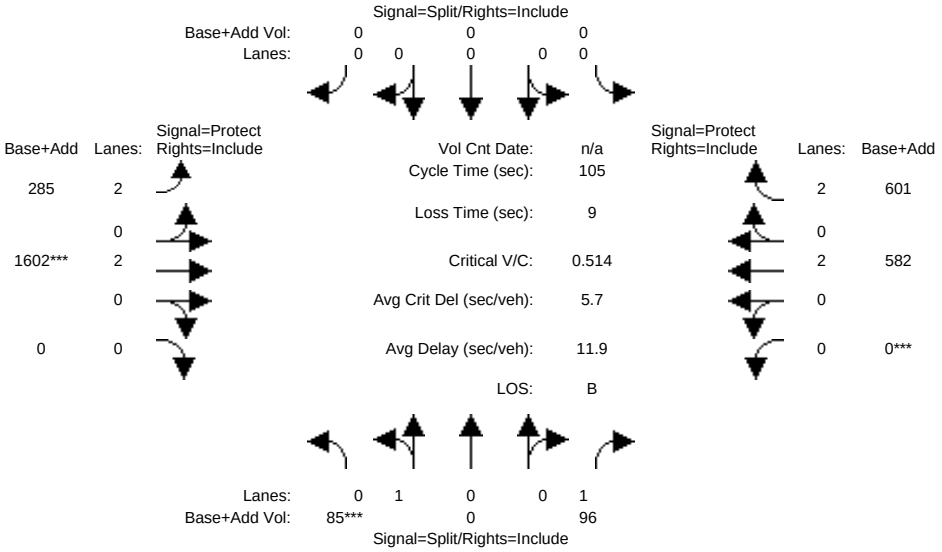
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	0	0	0	7	10	0	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	148	0	198	0	0	0	192	1133	0	0	741	727
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	148	0	198	0	0	0	192	1133	0	0	741	727
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	148	0	198	0	0	0	192	1133	0	0	741	727
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	148	0	198	0	0	0	192	1133	0	0	741	727
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	148	0	198	0	0	0	192	1133	0	0	741	727
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	148	0	198	0	0	0	192	1133	0	0	741	727
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.83
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00	2.00	2.00
Final Sat.:	1750	0	1750	0	0	0	3150	3800	0	0	3800	3150
Capacity Analysis Module:												
Vol/Sat:	0.08	0.00	0.11	0.00	0.00	0.00	0.06	0.30	0.00	0.00	0.20	0.23
Crit Moves:			****				****					****
Green/Cycle:	0.26	0.00	0.26	0.00	0.00	0.00	0.14	0.66	0.00	0.00	0.52	0.52
Volume/Cap:	0.33	0.00	0.44	0.00	0.00	0.00	0.44	0.45	0.00	0.00	0.37	0.44
Uniform Del:	31.8	0.0	32.8	0.0	0.0	0.0	41.6	8.7	0.0	0.0	15.0	15.6
IncremntDel:	0.4	0.0	0.7	0.0	0.0	0.0	0.7	0.1	0.0	0.0	0.1	0.2
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00
Delay/Veh:	32.2	0.0	33.5	0.0	0.0	0.0	42.3	8.8	0.0	0.0	15.1	15.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	32.2	0.0	33.5	0.0	0.0	0.0	42.3	8.8	0.0	0.0	15.1	15.8
LOS by Move:	C	A	C	A	A	A	D	A	A	A	B	B
HCM2kAvgQ:	4	0	6	0	0	0	3	9	0	0	7	9

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing PM

Intersection #6: NB 17 Ramp & Lark Ave



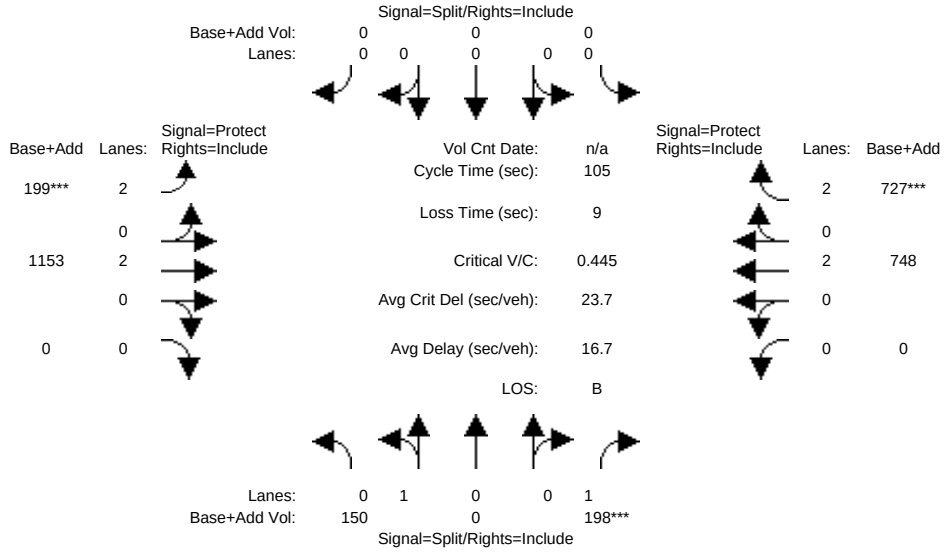
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	0	0	0	7	10	10	0	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	85	0	96	0	0	0	285	1602	0	0	582	601
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	85	0	96	0	0	0	285	1602	0	0	582	601
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	85	0	96	0	0	0	285	1602	0	0	582	601
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	85	0	96	0	0	0	285	1602	0	0	582	601
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	85	0	96	0	0	0	285	1602	0	0	582	601
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	85	0	96	0	0	0	285	1602	0	0	582	601
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.83
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00	2.00	2.00
Final Sat.:	1750	0	1750	0	0	0	3150	3800	0	0	3800	3150
Capacity Analysis Module:												
Vol/Sat:	0.05	0.00	0.05	0.00	0.00	0.00	0.09	0.42	0.00	0.00	0.15	0.19
Crit Moves:	****							****		****		
Green/Cycle:	0.11	0.00	0.11	0.00	0.00	0.00	0.26	0.81	0.00	0.00	0.55	0.55
Volume/Cap:	0.46	0.00	0.51	0.00	0.00	0.00	0.35	0.52	0.00	0.00	0.28	0.35
Uniform Del:	44.0	0.0	44.3	0.0	0.0	0.0	31.6	3.4	0.0	0.0	12.7	13.3
IncremntDel:	1.8	0.0	2.5	0.0	0.0	0.0	0.3	0.2	0.0	0.0	0.1	0.1
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00
Delay/Veh:	45.8	0.0	46.8	0.0	0.0	0.0	31.9	3.5	0.0	0.0	12.7	13.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	45.8	0.0	46.8	0.0	0.0	0.0	31.9	3.5	0.0	0.0	12.7	13.4
LOS by Move:	D	A	D	A	A	A	C	A	A	A	B	B
HCM2kAvgQ:	3	0	4	0	0	0	4	9	0	0	5	6

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing AM +P

Intersection #6: NB 17 Ramp & Lark Ave



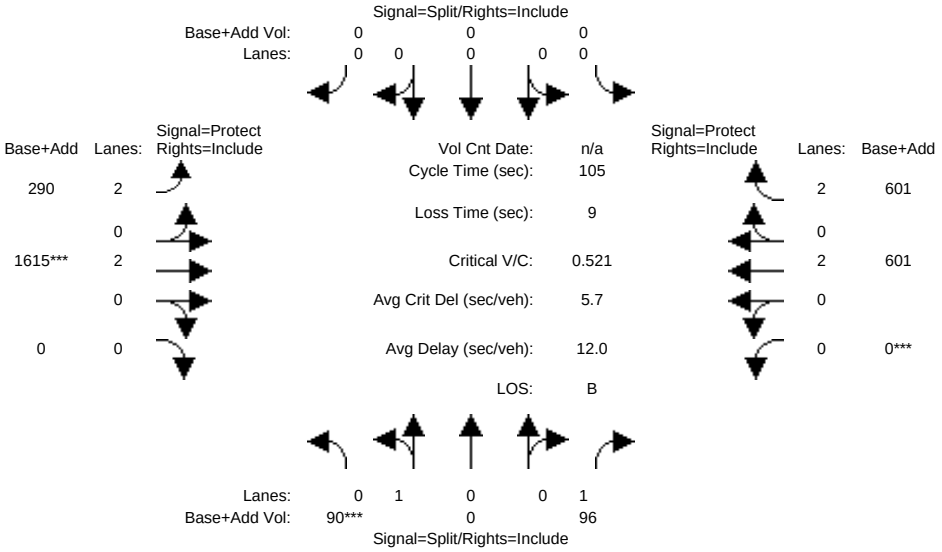
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	0	0	0	7	10	0	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	148	0	198	0	0	0	192	1133	0	0	741	727
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	148	0	198	0	0	0	192	1133	0	0	741	727
Added Vol:	2	0	0	0	0	0	7	20	0	0	7	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	150	0	198	0	0	0	199	1153	0	0	748	727
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	150	0	198	0	0	0	199	1153	0	0	748	727
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	150	0	198	0	0	0	199	1153	0	0	748	727
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	150	0	198	0	0	0	199	1153	0	0	748	727
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.83
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00	2.00	2.00
Final Sat.:	1750	0	1750	0	0	0	3150	3800	0	0	3800	3150
Capacity Analysis Module:												
Vol/Sat:	0.09	0.00	0.11	0.00	0.00	0.00	0.06	0.30	0.00	0.00	0.20	0.23
Crit Moves:			****				****					****
Green/Cycle:	0.25	0.00	0.25	0.00	0.00	0.00	0.14	0.66	0.00	0.00	0.52	0.52
Volume/Cap:	0.34	0.00	0.45	0.00	0.00	0.00	0.45	0.46	0.00	0.00	0.38	0.45
Uniform Del:	31.9	0.0	32.9	0.0	0.0	0.0	41.3	8.7	0.0	0.0	15.2	15.8
IncremntDel:	0.5	0.0	0.7	0.0	0.0	0.0	0.7	0.1	0.0	0.0	0.1	0.2
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00
Delay/Veh:	32.4	0.0	33.6	0.0	0.0	0.0	42.0	8.8	0.0	0.0	15.3	16.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	32.4	0.0	33.6	0.0	0.0	0.0	42.0	8.8	0.0	0.0	15.3	16.0
LOS by Move:	C	A	C	A	A	A	D	A	A	A	B	B
HCM2kAvgQ:	4	0	6	0	0	0	3	9	0	0	7	9

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing PM +P

Intersection #6: NB 17 Ramp & Lark Ave



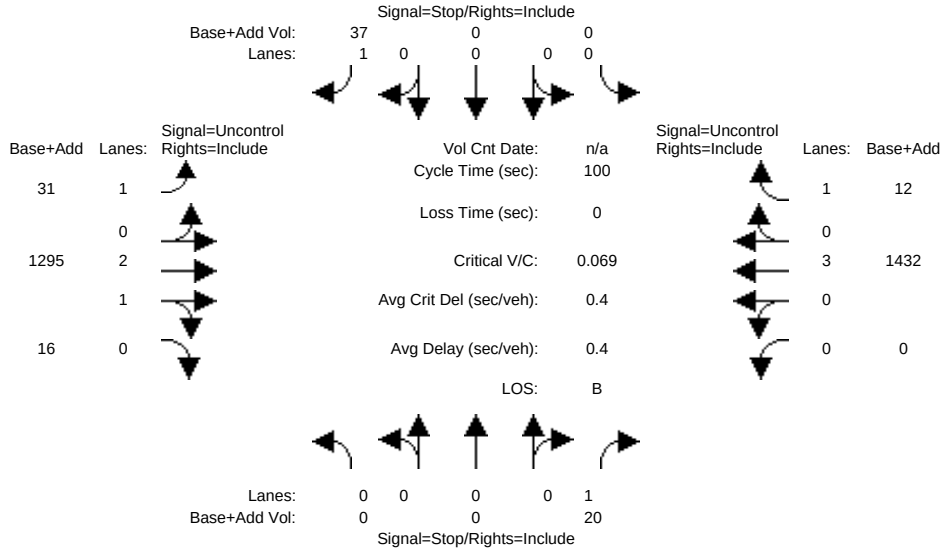
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	0	0	0	7	10	10	0	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	85	0	96	0	0	0	285	1602	0	0	582	601
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	85	0	96	0	0	0	285	1602	0	0	582	601
Added Vol:	5	0	0	0	0	0	5	13	0	0	19	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	90	0	96	0	0	0	290	1615	0	0	601	601
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	90	0	96	0	0	0	290	1615	0	0	601	601
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	90	0	96	0	0	0	290	1615	0	0	601	601
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	90	0	96	0	0	0	290	1615	0	0	601	601
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.83
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00	2.00	2.00
Final Sat.:	1750	0	1750	0	0	0	3150	3800	0	0	3800	3150
Capacity Analysis Module:												
Vol/Sat:	0.05	0.00	0.05	0.00	0.00	0.00	0.09	0.43	0.00	0.00	0.16	0.19
Crit Moves:	****							****		****		
Green/Cycle:	0.10	0.00	0.10	0.00	0.00	0.00	0.26	0.81	0.00	0.00	0.55	0.55
Volume/Cap:	0.49	0.00	0.52	0.00	0.00	0.00	0.35	0.52	0.00	0.00	0.29	0.35
Uniform Del:	44.4	0.0	44.5	0.0	0.0	0.0	31.4	3.3	0.0	0.0	12.8	13.4
IncremntDel:	2.1	0.0	2.8	0.0	0.0	0.0	0.3	0.2	0.0	0.0	0.1	0.1
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00
Delay/Veh:	46.5	0.0	47.3	0.0	0.0	0.0	31.6	3.5	0.0	0.0	12.9	13.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	46.5	0.0	47.3	0.0	0.0	0.0	31.6	3.5	0.0	0.0	12.9	13.5
LOS by Move:	D	A	D	A	A	A	C	A	A	A	B	B
HCM2kAvgQ:	4	0	4	0	0	0	4	9	0	0	5	6

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Alternative)
Existing AM

Intersection #7: Turner St/Highland Oaks Dr & Lark Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module:												
Base Vol:	0	0	20	0	0	37	31	1295	16	0	1432	12
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	20	0	0	37	31	1295	16	0	1432	12
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	20	0	0	37	31	1295	16	0	1432	12
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	20	0	0	37	31	1295	16	0	1432	12
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	0	20	0	0	37	31	1295	16	0	1432	12
Critical Gap Module:												
Critical Gp:	xxxxx	xxxx	6.9	xxxxx	xxxx	6.9	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx
FollowUpTim:	xxxxx	xxxx	3.3	xxxxx	xxxx	3.3	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	xxxx	xxxx	440	xxxx	xxxx	477	1444	xxxx	xxxxx	xxxx	xxxx	xxxxx
Potent Cap.:	xxxx	xxxx	571	xxxx	xxxx	540	476	xxxx	xxxxx	xxxx	xxxx	xxxxx
Move Cap.:	xxxx	xxxx	571	xxxx	xxxx	540	476	xxxx	xxxxx	xxxx	xxxx	xxxxx
Volume/Cap:	xxxx	xxxx	0.04	xxxx	xxxx	0.07	0.07	xxxx	xxxx	xxxx	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	0.1	xxxx	xxxx	0.2	0.2	xxxx	xxxxx	xxxx	xxxx	xxxxx
Control Del:	xxxxx	xxxx	11.5	xxxxx	xxxx	12.2	13.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx
LOS by Move:	*	*	B	*	*	B	B	*	*	*	*	*
Movement:	LT - LTR - RT			LT - LTR - RT			LT - LTR - RT			LT - LTR - RT		
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*
ApproachDel:	11.5			12.2			xxxxxx			xxxxxx		
ApproachLOS:	B			B			*			*		

Note: Queue reported is the number of cars per lane.

Peak Hour Delay Signal Warrant Report

****

Intersection #7 Turner St/Highland Oaks Dr & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 0	0	1	0 0 0	0	1	1 0 2	1	0	0 0 3	0	1
Initial Vol:	0	0	20	0	0	37	31	1295	16	0	1432	12
ApproachDel:	11.5			12.2			xxxxxx			xxxxxx		

Approach[northbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=20]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=2843]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[southbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=37]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=2843]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER
This peak hour signal warrant analysis should be considered solely as an "indicator" of the likelihood of an unsignalized intersection warranting a traffic signal in the future. Intersections that exceed this warrant are probably more likely to meet one or more of the other volume based signal warrant (such as the 4-hour or 8-hour warrants).

The peak hour warrant analysis in this report is not intended to replace a rigorous and complete traffic signal warrant analysis by the responsible jurisdiction. Consideration of the other signal warrants, which is beyond the scope of this software, may yield different results.

Peak Hour Volume Signal Warrant Report [Urban]

****

Intersection #7 Turner St/Highland Oaks Dr & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 0	0	1	0 0 0	0	1	1 0 2	1	0	0 0 3	0	1
Initial Vol:	0	0	20	0	0	37	31	1295	16	0	1432	12

Major Street Volume: 2786
Minor Approach Volume: 37
Minor Approach Volume Threshold: -68 [less than minimum of 100]

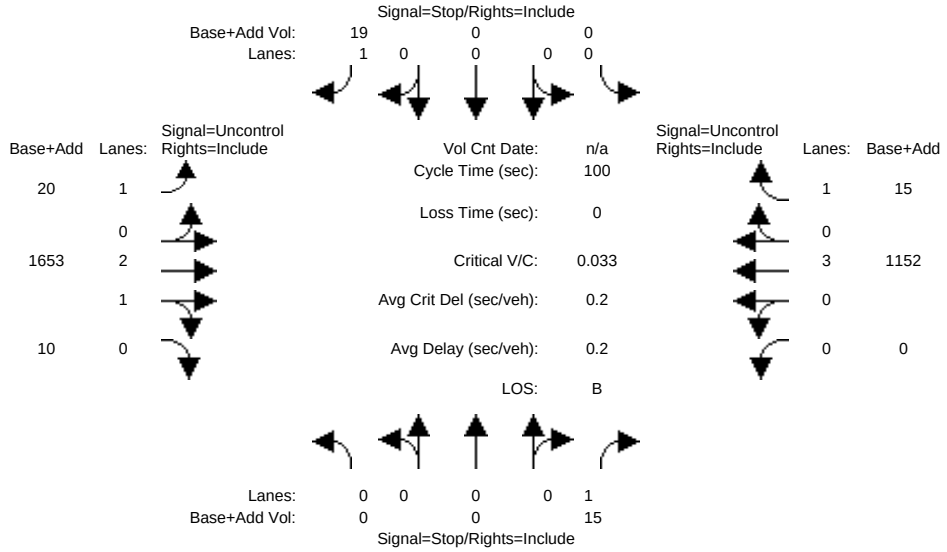
SIGNAL WARRANT DISCLAIMER
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Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Alternative)
Existing PM

Intersection #7: Turner St/Highland Oaks Dr & Lark Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module:												
Base Vol:	0	0	15	0	0	19	20	1653	10	0	1152	15
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	15	0	0	19	20	1653	10	0	1152	15
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	15	0	0	19	20	1653	10	0	1152	15
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	15	0	0	19	20	1653	10	0	1152	15
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	0	15	0	0	19	20	1653	10	0	1152	15
Critical Gap Module:												
Critical Gp:	xxxxx	xxxx	6.9	xxxxx	xxxx	6.9	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx
FollowUpTim:	xxxxx	xxxx	3.3	xxxxx	xxxx	3.3	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	xxxx	xxxx	556	xxxx	xxxx	384	1167	xxxx	xxxxx	xxxx	xxxx	xxxxx
Potent Cap.:	xxxx	xxxx	480	xxxx	xxxx	620	606	xxxx	xxxxx	xxxx	xxxx	xxxxx
Move Cap.:	xxxx	xxxx	480	xxxx	xxxx	620	606	xxxx	xxxxx	xxxx	xxxx	xxxxx
Volume/Cap:	xxxx	xxxx	0.03	xxxx	xxxx	0.03	0.03	xxxx	xxxx	xxxx	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	0.1	xxxx	xxxx	0.1	0.1	xxxx	xxxxx	xxxx	xxxx	xxxxx
Control Del:	xxxxx	xxxx	12.7	xxxxx	xxxx	11.0	11.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx
LOS by Move:	*	*	B	*	*	B	B	*	*	*	*	*
Movement:	LT - LTR - RT			LT - LTR - RT			LT - LTR - RT			LT - LTR - RT		
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*
ApproachDel:	12.7			11.0			xxxxxx			xxxxxx		
ApproachLOS:	B			B			*			*		

Note: Queue reported is the number of cars per lane.

Peak Hour Delay Signal Warrant Report

****

Intersection #7 Turner St/Highland Oaks Dr & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 0	0	1	0 0 0	0	1	1 0 2	1	0	0 0 3	0	1
Initial Vol:	0	0	15	0	0	19	20	1653	10	0	1152	15
ApproachDel:	12.7			11.0			xxxxxx			xxxxxx		

Approach[northbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=15]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=2884]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[southbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=19]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=2884]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER
This peak hour signal warrant analysis should be considered solely as an "indicator" of the likelihood of an unsignalized intersection warranting a traffic signal in the future. Intersections that exceed this warrant are probably more likely to meet one or more of the other volume based signal warrant (such as the 4-hour or 8-hour warrants).

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Peak Hour Volume Signal Warrant Report [Urban]

****

Intersection #7 Turner St/Highland Oaks Dr & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 0	0	1	0 0 0	0	1	1 0 2	1	0	0 0 3	0	1
Initial Vol:	0	0	15	0	0	19	20	1653	10	0	1152	15

Major Street Volume: 2850
Minor Approach Volume: 19
Minor Approach Volume Threshold: -76 [less than minimum of 100]

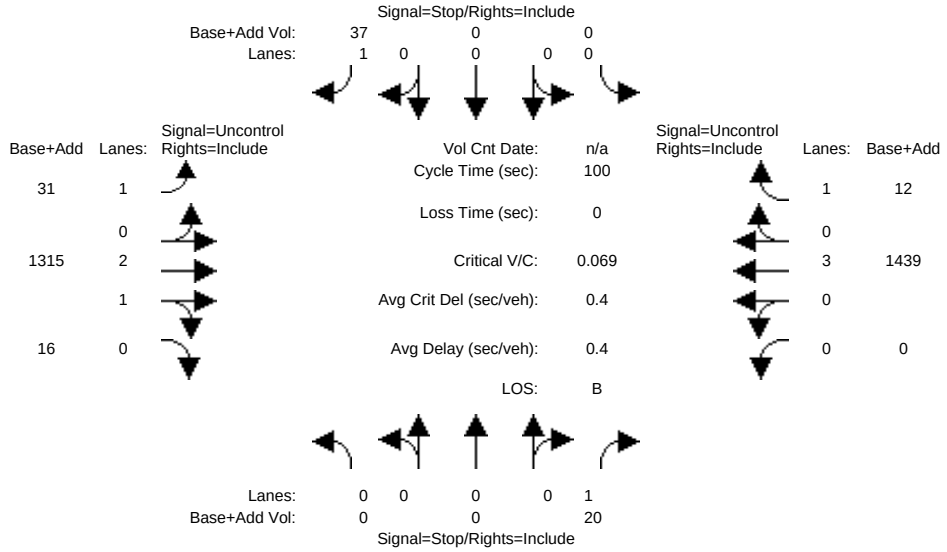
SIGNAL WARRANT DISCLAIMER
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Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Alternative)
Existing AM +P

Intersection #7: Turner St/Highland Oaks Dr & Lark Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module:												
Base Vol:	0	0	20	0	0	37	31	1295	16	0	1432	12
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	20	0	0	37	31	1295	16	0	1432	12
Added Vol:	0	0	0	0	0	0	0	20	0	0	7	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	20	0	0	37	31	1315	16	0	1439	12
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	20	0	0	37	31	1315	16	0	1439	12
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	0	20	0	0	37	31	1315	16	0	1439	12
Critical Gap Module:												
Critical Gp:	xxxxx	xxxx	6.9	xxxxx	xxxx	6.9	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx
FollowUpTim:	xxxxx	xxxx	3.3	xxxxx	xxxx	3.3	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	xxxx	xxxx	446	xxxx	xxxx	480	1451	xxxx	xxxxx	xxxx	xxxx	xxxxx
Potent Cap.:	xxxx	xxxx	565	xxxx	xxxx	538	473	xxxx	xxxxx	xxxx	xxxx	xxxxx
Move Cap.:	xxxx	xxxx	565	xxxx	xxxx	538	473	xxxx	xxxxx	xxxx	xxxx	xxxxx
Volume/Cap:	xxxx	xxxx	0.04	xxxx	xxxx	0.07	0.07	xxxx	xxxx	xxxx	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	0.1	xxxx	xxxx	0.2	0.2	xxxx	xxxxx	xxxx	xxxx	xxxxx
Control Del:	xxxxx	xxxx	11.6	xxxxx	xxxx	12.2	13.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx
LOS by Move:	*	*	B	*	*	B	B	*	*	*	*	*
Movement:	LT - LTR - RT			LT - LTR - RT			LT - LTR - RT			LT - LTR - RT		
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*
ApproachDel:	11.6			12.2			xxxxxx			xxxxxx		
ApproachLOS:	B			B			*			*		

Note: Queue reported is the number of cars per lane.

Peak Hour Delay Signal Warrant Report

****

Intersection #7 Turner St/Highland Oaks Dr & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0	0 0	1	0 0	0 0	1	1 0	2 1	0	0 0	3 0	1
Initial Vol:	0	0	20	0	0	37	31	1315	16	0	1439	12
ApproachDel:	11.6			12.2			xxxxxx			xxxxxx		

Approach[northbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=20]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=2870]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[southbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=37]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=2870]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER
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Peak Hour Volume Signal Warrant Report [Urban]

****

Intersection #7 Turner St/Highland Oaks Dr & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0	0 0	1	0 0	0 0	1	1 0	2 1	0	0 0	3 0	1
Initial Vol:	0	0	20	0	0	37	31	1315	16	0	1439	12

Major Street Volume: 2813
Minor Approach Volume: 37
Minor Approach Volume Threshold: -71 [less than minimum of 100]

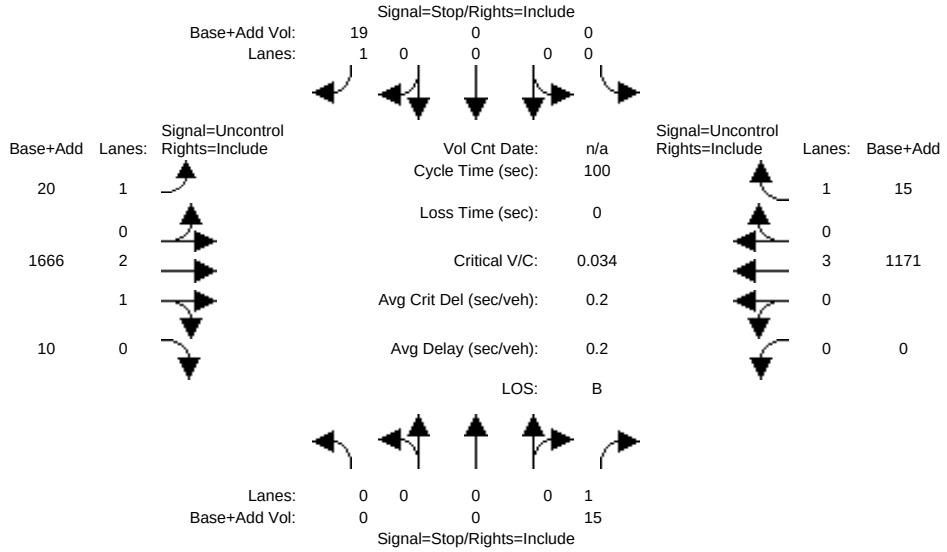
SIGNAL WARRANT DISCLAIMER
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Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Alternative)
Existing PM +P

Intersection #7: Turner St/Highland Oaks Dr & Lark Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module:												
Base Vol:	0	0	15	0	0	19	20	1653	10	0	1152	15
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	15	0	0	19	20	1653	10	0	1152	15
Added Vol:	0	0	0	0	0	0	0	13	0	0	19	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	15	0	0	19	20	1666	10	0	1171	15
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	15	0	0	19	20	1666	10	0	1171	15
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	0	15	0	0	19	20	1666	10	0	1171	15
Critical Gap Module:												
Critical Gp:	xxxxx	xxxx	6.9	xxxxx	xxxx	6.9	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx
FollowUpTim:	xxxxx	xxxx	3.3	xxxxx	xxxx	3.3	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	xxxx	xxxx	560	xxxx	xxxx	390	1186	xxxx	xxxxx	xxxx	xxxx	xxxxx
Potent Cap.:	xxxx	xxxx	477	xxxx	xxxx	614	596	xxxx	xxxxx	xxxx	xxxx	xxxxx
Move Cap.:	xxxx	xxxx	477	xxxx	xxxx	614	596	xxxx	xxxxx	xxxx	xxxx	xxxxx
Volume/Cap:	xxxx	xxxx	0.03	xxxx	xxxx	0.03	0.03	xxxx	xxxx	xxxx	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	0.1	xxxx	xxxx	0.1	0.1	xxxx	xxxxx	xxxx	xxxx	xxxxx
Control Del:	xxxxx	xxxx	12.8	xxxxx	xxxx	11.0	11.3	xxxx	xxxxx	xxxxx	xxxx	xxxxx
LOS by Move:	*	*	B	*	*	B	B	*	*	*	*	*
Movement:	LT - LTR - RT			LT - LTR - RT			LT - LTR - RT			LT - LTR - RT		
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*
ApproachDel:	12.8			11.0			xxxxxx			xxxxxx		
ApproachLOS:	B			B			*			*		

Note: Queue reported is the number of cars per lane.

Peak Hour Delay Signal Warrant Report

****

Intersection #7 Turner St/Highland Oaks Dr & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 0	0	1	0 0 0	0	1	1 0 2	1	0	0 0 3	0	1
Initial Vol:	0	0	15	0	0	19	20	1666	10	0	1171	15
ApproachDel:	12.8			11.0			xxxxxx			xxxxxx		

Approach[northbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=15]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=2916]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[southbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=19]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=2916]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER
This peak hour signal warrant analysis should be considered solely as an "indicator" of the likelihood of an unsignalized intersection warranting a traffic signal in the future. Intersections that exceed this warrant are probably more likely to meet one or more of the other volume based signal warrant (such as the 4-hour or 8-hour warrants).

The peak hour warrant analysis in this report is not intended to replace a rigorous and complete traffic signal warrant analysis by the responsible jurisdiction. Consideration of the other signal warrants, which is beyond the scope of this software, may yield different results.

Peak Hour Volume Signal Warrant Report [Urban]

****

Intersection #7 Turner St/Highland Oaks Dr & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 0	0	1	0 0 0	0	1	1 0 2	1	0	0 0 3	0	1
Initial Vol:	0	0	15	0	0	19	20	1666	10	0	1171	15

Major Street Volume: 2882
Minor Approach Volume: 19
Minor Approach Volume Threshold: -80 [less than minimum of 100]

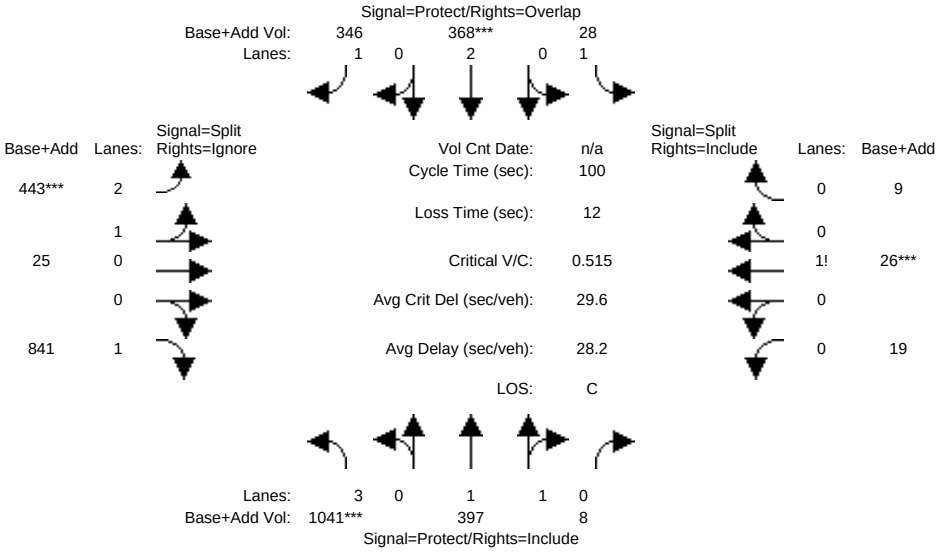
SIGNAL WARRANT DISCLAIMER
This peak hour signal warrant analysis should be considered solely as an "indicator" of the likelihood of an unsignalized intersection warranting a traffic signal in the future. Intersections that exceed this warrant are probably more likely to meet one or more of the other volume based signal warrant (such as the 4-hour or 8-hour warrants).

The peak hour warrant analysis in this report is not intended to replace a rigorous and complete traffic signal warrant analysis by the responsible jurisdiction. Consideration of the other signal warrants, which is beyond the scope of this software, may yield different results.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing AM

Intersection #8: Los Gatos Blvd & Lark Ave



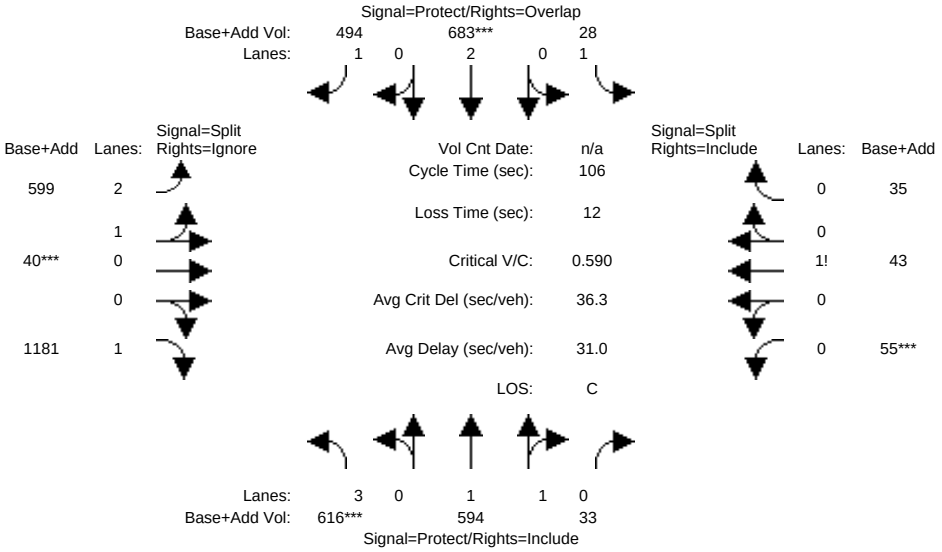
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	1041	397	8	28	368	346	443	25	841	19	26	9
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	1041	397	8	28	368	346	443	25	841	19	26	9
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	1041	397	8	28	368	346	443	25	841	19	26	9
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	1041	397	8	28	368	346	443	25	0	19	26	9
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	1041	397	8	28	368	346	443	25	0	19	26	9
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	1041	397	8	28	368	346	443	25	0	19	26	9
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.80	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92
Lanes:	3.00	1.96	0.04	1.00	2.00	1.00	2.87	0.13	1.00	0.37	0.46	0.17
Final Sat.:	4551	3719	75	1750	3800	1750	4514	255	1750	640	876	303
Capacity Analysis Module:												
Vol/Sat:	0.23	0.11	0.11	0.02	0.10	0.20	0.10	0.10	0.00	0.03	0.03	0.03
Crit Moves:	****				****		****				****	
Green/Cycle:	0.42	0.36	0.36	0.24	0.18	0.36	0.18	0.18	0.00	0.10	0.10	0.10
Volume/Cap:	0.54	0.29	0.29	0.07	0.54	0.55	0.54	0.54	0.00	0.30	0.30	0.30
Uniform Del:	21.7	22.8	22.8	29.6	37.4	25.6	37.2	37.2	0.0	41.7	41.7	41.7
IncremntDel:	0.3	0.1	0.1	0.1	0.9	1.1	0.7	0.7	0.0	0.9	0.9	0.9
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Delay/Veh:	22.1	22.9	22.9	29.6	38.3	26.7	37.9	37.9	0.0	42.7	42.7	42.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	22.1	22.9	22.9	29.6	38.3	26.7	37.9	37.9	0.0	42.7	42.7	42.7
LOS by Move:	C	C	C	C	D	C	D	D	A	D	D	D
HCM2kAvgQ:	10	4	4	1	6	10	5	5	0	2	2	2

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing PM

Intersection #8: Los Gatos Blvd & Lark Ave



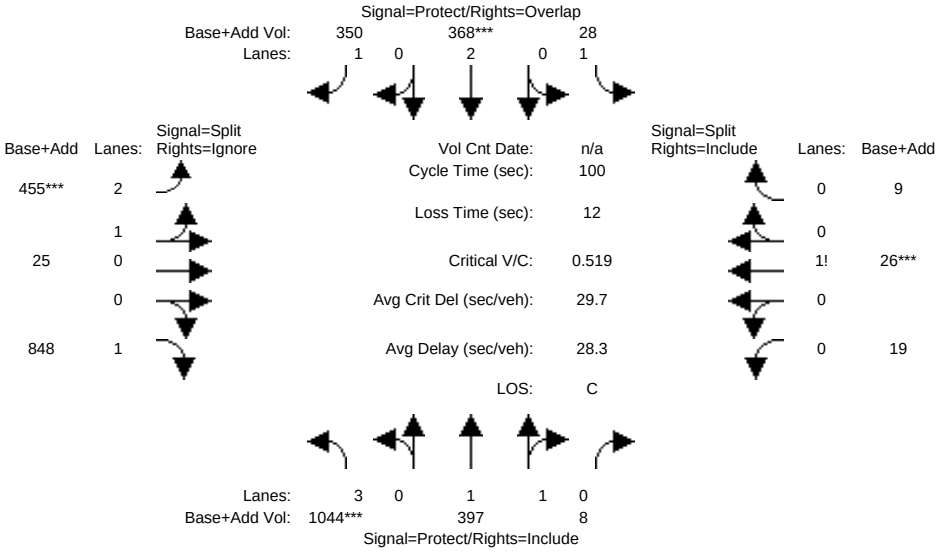
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	616	594	33	28	683	494	599	40	1181	55	43	35
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	616	594	33	28	683	494	599	40	1181	55	43	35
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	616	594	33	28	683	494	599	40	1181	55	43	35
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	616	594	33	28	683	494	599	40	0	55	43	35
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	616	594	33	28	683	494	599	40	0	55	43	35
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	616	594	33	28	683	494	599	40	0	55	43	35
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.80	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92
Lanes:	3.00	1.89	0.11	1.00	2.00	1.00	2.84	0.16	1.00	0.42	0.31	0.27
Final Sat.:	4551	3584	199	1750	3800	1750	4477	299	1750	743	581	473
Capacity Analysis Module:												
Vol/Sat:	0.14	0.17	0.17	0.02	0.18	0.28	0.13	0.13	0.00	0.07	0.07	0.07
Crit Moves:	****				****			****			****	
Green/Cycle:	0.23	0.38	0.38	0.15	0.30	0.53	0.23	0.23	0.00	0.13	0.13	0.13
Volume/Cap:	0.59	0.43	0.43	0.11	0.59	0.53	0.59	0.59	0.00	0.59	0.59	0.59
Uniform Del:	36.4	24.3	24.3	38.7	31.2	16.2	36.6	36.6	0.0	43.8	43.8	43.8
IncremntDel:	0.9	0.2	0.2	0.2	0.8	0.6	0.9	0.9	0.0	4.1	4.1	4.1
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Delay/Veh:	37.3	24.5	24.5	38.9	32.0	16.8	37.4	37.4	0.0	47.8	47.8	47.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	37.3	24.5	24.5	38.9	32.0	16.8	37.4	37.4	0.0	47.8	47.8	47.8
LOS by Move:	D	C	C	D	C	B	D	D	A	D	D	D
HCM2kAvgQ:	8	8	8	1	10	11	7	7	0	5	5	5

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing AM +P

Intersection #8: Los Gatos Blvd & Lark Ave



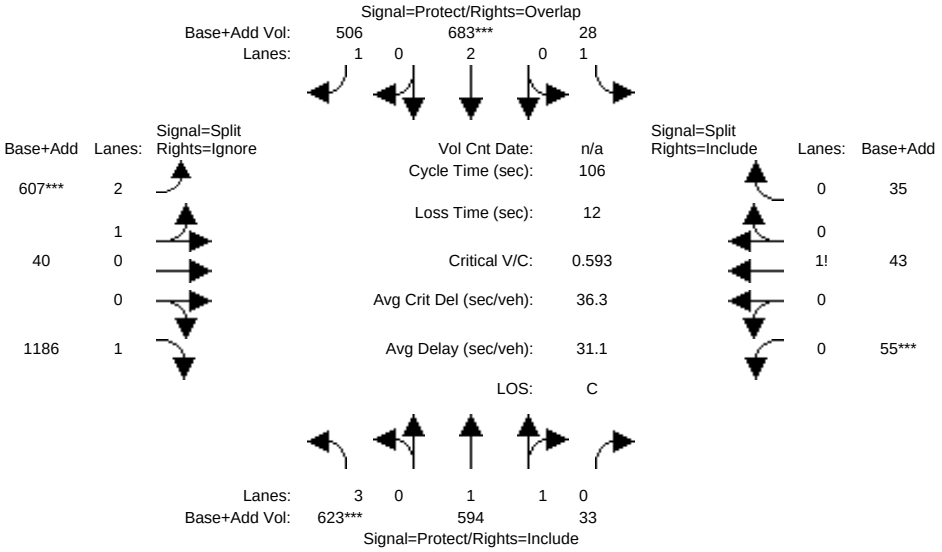
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	1041	397	8	28	368	346	443	25	841	19	26	9
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	1041	397	8	28	368	346	443	25	841	19	26	9
Added Vol:	3	0	0	0	0	4	12	0	7	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	1044	397	8	28	368	350	455	25	848	19	26	9
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	1044	397	8	28	368	350	455	25	0	19	26	9
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	1044	397	8	28	368	350	455	25	0	19	26	9
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	1044	397	8	28	368	350	455	25	0	19	26	9
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.80	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92
Lanes:	3.00	1.96	0.04	1.00	2.00	1.00	2.87	0.13	1.00	0.37	0.46	0.17
Final Sat.:	4551	3719	75	1750	3800	1750	4519	248	1750	640	876	303
Capacity Analysis Module:												
Vol/Sat:	0.23	0.11	0.11	0.02	0.10	0.20	0.10	0.10	0.00	0.03	0.03	0.03
Crit Moves:	****				****		****				****	
Green/Cycle:	0.42	0.36	0.36	0.24	0.18	0.36	0.18	0.18	0.00	0.10	0.10	0.10
Volume/Cap:	0.55	0.30	0.30	0.07	0.55	0.55	0.55	0.55	0.00	0.30	0.30	0.30
Uniform Del:	21.9	22.9	22.9	29.7	37.5	25.5	37.0	37.0	0.0	41.7	41.7	41.7
IncremntDel:	0.3	0.1	0.1	0.1	1.0	1.1	0.7	0.7	0.0	0.9	0.9	0.9
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Delay/Veh:	22.2	23.0	23.0	29.7	38.5	26.6	37.8	37.8	0.0	42.7	42.7	42.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	22.2	23.0	23.0	29.7	38.5	26.6	37.8	37.8	0.0	42.7	42.7	42.7
LOS by Move:	C	C	C	C	D	C	D	D	A	D	D	D
HCM2kAvgQ:	10	4	4	1	6	10	5	5	0	2	2	2

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Existing PM +P

Intersection #8: Los Gatos Blvd & Lark Ave



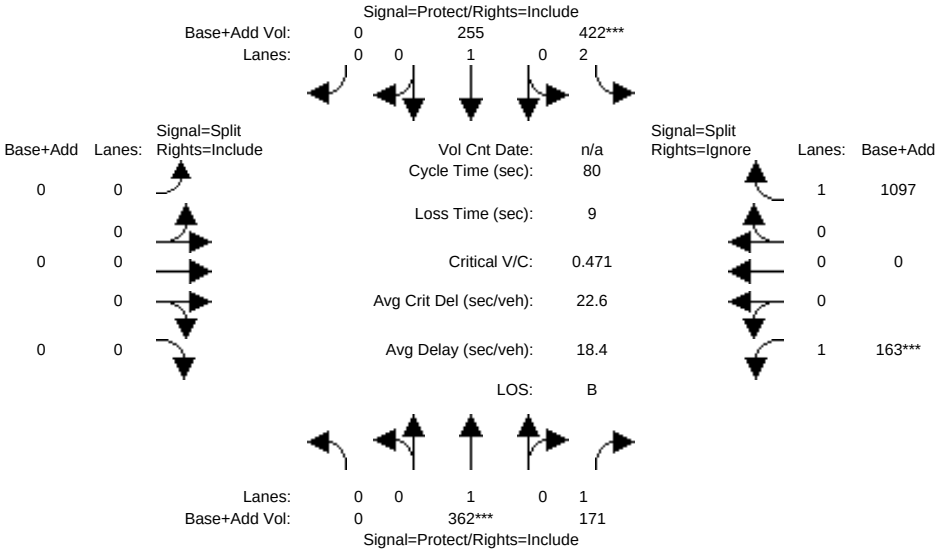
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	616	594	33	28	683	494	599	40	1181	55	43	35
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	616	594	33	28	683	494	599	40	1181	55	43	35
Added Vol:	7	0	0	0	0	12	8	0	5	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	623	594	33	28	683	506	607	40	1186	55	43	35
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	623	594	33	28	683	506	607	40	0	55	43	35
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	623	594	33	28	683	506	607	40	0	55	43	35
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	623	594	33	28	683	506	607	40	0	55	43	35
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.80	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92
Lanes:	3.00	1.89	0.11	1.00	2.00	1.00	2.84	0.16	1.00	0.42	0.31	0.27
Final Sat.:	4551	3584	199	1750	3800	1750	4480	295	1750	743	581	473
Capacity Analysis Module:												
Vol/Sat:	0.14	0.17	0.17	0.02	0.18	0.29	0.14	0.14	0.00	0.07	0.07	0.07
Crit Moves:	****				****		****			****		
Green/Cycle:	0.23	0.38	0.38	0.15	0.30	0.53	0.23	0.23	0.00	0.12	0.12	0.12
Volume/Cap:	0.59	0.43	0.43	0.11	0.59	0.54	0.59	0.59	0.00	0.59	0.59	0.59
Uniform Del:	36.3	24.3	24.3	38.7	31.4	16.4	36.5	36.5	0.0	43.8	43.8	43.8
IncremntDel:	0.9	0.2	0.2	0.2	0.8	0.7	0.9	0.9	0.0	4.2	4.2	4.2
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Delay/Veh:	37.3	24.5	24.5	38.9	32.2	17.1	37.4	37.4	0.0	48.1	48.1	48.1
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	37.3	24.5	24.5	38.9	32.2	17.1	37.4	37.4	0.0	48.1	48.1	48.1
LOS by Move:	D	C	C	D	C	B	D	D	A	D	D	D
HCM2kAvgQ:	8	8	8	1	10	12	7	7	0	5	5	5

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background AM

Intersection #1: Winchester Blvd & Lark Ave



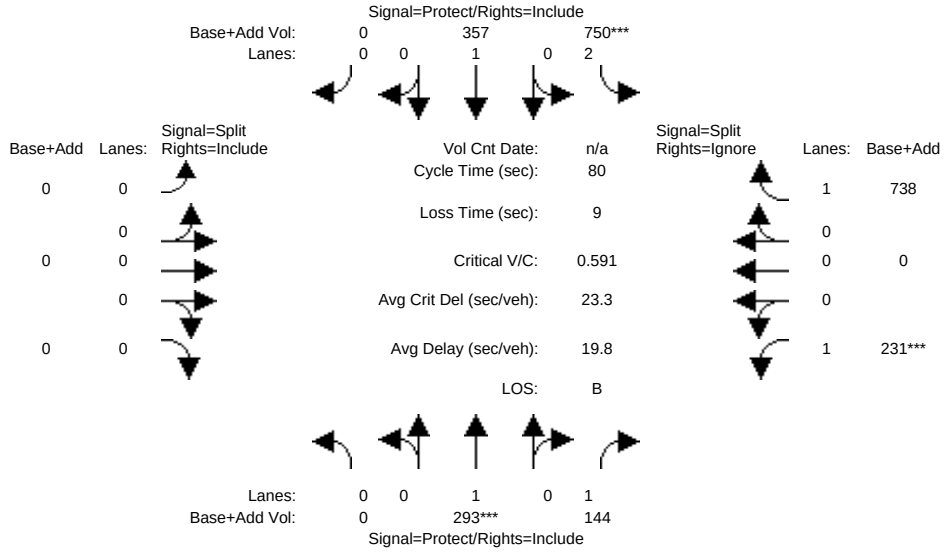
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	362	171	422	255	0	0	0	0	163	0	1097
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	362	171	422	255	0	0	0	0	163	0	1097
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	362	171	422	255	0	0	0	0	163	0	1097
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	362	171	422	255	0	0	0	0	163	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	362	171	422	255	0	0	0	0	163	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
FinalVolume:	0	362	171	422	255	0	0	0	0	163	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	1.00	1.00	2.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	1900	1750	3150	1900	0	0	0	0	1750	0	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.19	0.10	0.13	0.13	0.00	0.00	0.00	0.00	0.09	0.00	0.00
Crit Moves:		****		****						****		
Green/Cycle:	0.00	0.40	0.40	0.28	0.69	0.00	0.00	0.00	0.00	0.20	0.00	0.00
Volume/Cap:	0.00	0.47	0.24	0.47	0.19	0.00	0.00	0.00	0.00	0.47	0.00	0.00
Uniform Del:	0.0	17.5	15.7	23.6	4.5	0.0	0.0	0.0	0.0	28.4	0.0	0.0
IncremntDel:	0.0	0.5	0.2	0.4	0.1	0.0	0.0	0.0	0.0	1.0	0.0	0.0
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	0.00	1.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
Delay/Veh:	0.0	18.0	15.9	24.0	4.5	0.0	0.0	0.0	0.0	29.4	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	18.0	15.9	24.0	4.5	0.0	0.0	0.0	0.0	29.4	0.0	0.0
LOS by Move:	A	B	B	C	A	A	A	A	A	C	A	A
HCM2kAvgQ:	0	7	3	6	2	0	0	0	0	4	0	0

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background PM

Intersection #1: Winchester Blvd & Lark Ave



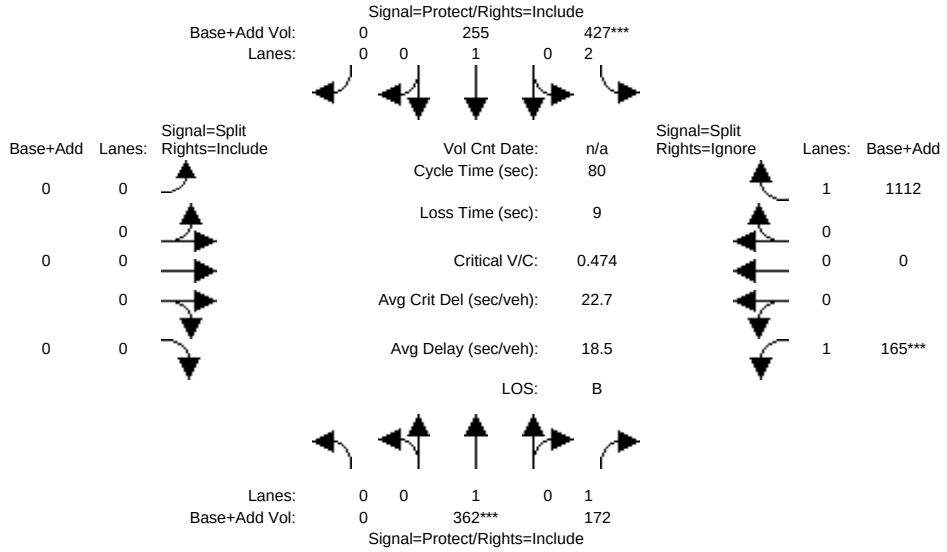
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	293	144	750	357	0	0	0	0	231	0	738
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	293	144	750	357	0	0	0	0	231	0	738
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	293	144	750	357	0	0	0	0	231	0	738
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	293	144	750	357	0	0	0	0	231	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	293	144	750	357	0	0	0	0	231	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
FinalVolume:	0	293	144	750	357	0	0	0	0	231	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	1.00	1.00	2.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	1900	1750	3150	1900	0	0	0	0	1750	0	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.15	0.08	0.24	0.19	0.00	0.00	0.00	0.00	0.13	0.00	0.00
Crit Moves:		****		****						****		
Green/Cycle:	0.00	0.26	0.26	0.40	0.66	0.00	0.00	0.00	0.00	0.22	0.00	0.00
Volume/Cap:	0.00	0.59	0.32	0.59	0.28	0.00	0.00	0.00	0.00	0.59	0.00	0.00
Uniform Del:	0.0	25.8	23.8	18.7	5.6	0.0	0.0	0.0	0.0	27.8	0.0	0.0
IncremntDel:	0.0	1.9	0.4	0.7	0.1	0.0	0.0	0.0	0.0	2.4	0.0	0.0
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	0.00	1.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
Delay/Veh:	0.0	27.7	24.2	19.5	5.7	0.0	0.0	0.0	0.0	30.2	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	27.7	24.2	19.5	5.7	0.0	0.0	0.0	0.0	30.2	0.0	0.0
LOS by Move:	A	C	C	B	A	A	A	A	A	C	A	A
HCM2kAvgQ:	0	7	3	9	4	0	0	0	0	5	0	0

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background AM+P

Intersection #1: Winchester Blvd & Lark Ave



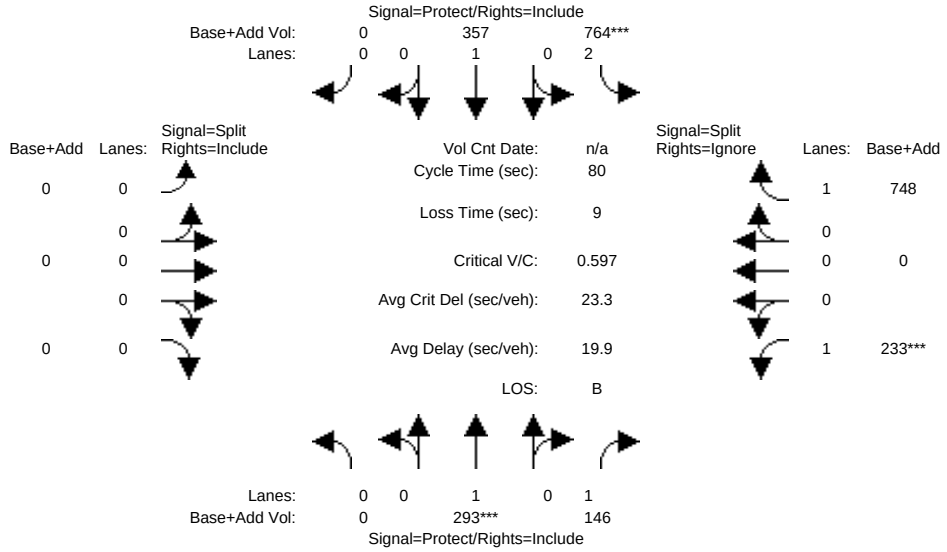
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	362	171	422	255	0	0	0	0	163	0	1097
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	362	171	422	255	0	0	0	0	163	0	1097
Added Vol:	0	0	1	5	0	0	0	0	0	2	0	15
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	362	172	427	255	0	0	0	0	165	0	1112
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	362	172	427	255	0	0	0	0	165	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	362	172	427	255	0	0	0	0	165	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
FinalVolume:	0	362	172	427	255	0	0	0	0	165	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	1.00	1.00	2.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	1900	1750	3150	1900	0	0	0	0	1750	0	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.19	0.10	0.14	0.13	0.00	0.00	0.00	0.00	0.09	0.00	0.00
Crit Moves:		****		****						****		
Green/Cycle:	0.00	0.40	0.40	0.29	0.69	0.00	0.00	0.00	0.00	0.20	0.00	0.00
Volume/Cap:	0.00	0.47	0.24	0.47	0.19	0.00	0.00	0.00	0.00	0.47	0.00	0.00
Uniform Del:	0.0	17.7	15.9	23.6	4.5	0.0	0.0	0.0	0.0	28.3	0.0	0.0
IncremntDel:	0.0	0.5	0.2	0.4	0.1	0.0	0.0	0.0	0.0	1.0	0.0	0.0
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	0.00	1.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
Delay/Veh:	0.0	18.1	16.0	24.0	4.6	0.0	0.0	0.0	0.0	29.4	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	18.1	16.0	24.0	4.6	0.0	0.0	0.0	0.0	29.4	0.0	0.0
LOS by Move:	A	B	B	C	A	A	A	A	A	C	A	A
HCM2kAvgQ:	0	7	3	6	2	0	0	0	0	4	0	0

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background PM +P

Intersection #1: Winchester Blvd & Lark Ave



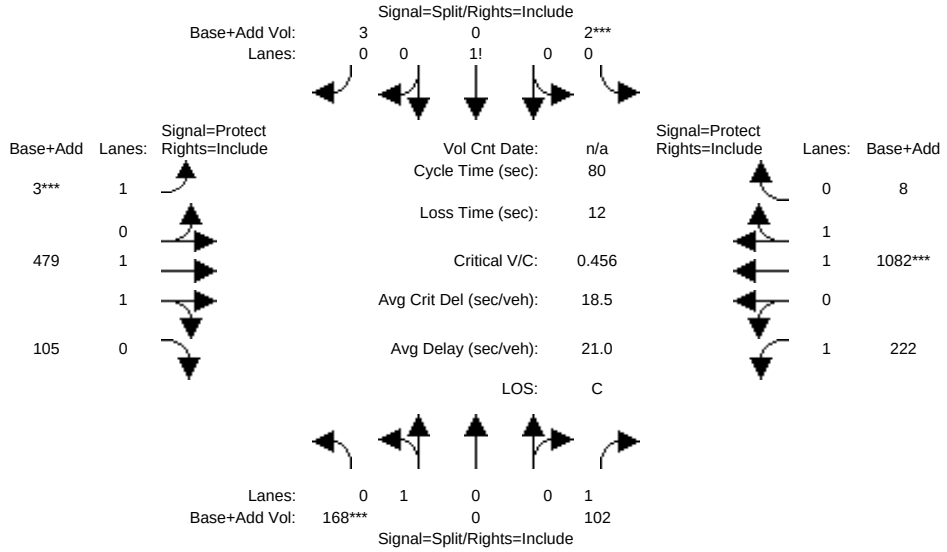
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	293	144	750	357	0	0	0	0	231	0	738
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	293	144	750	357	0	0	0	0	231	0	738
Added Vol:	0	0	2	14	0	0	0	0	0	2	0	10
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	293	146	764	357	0	0	0	0	233	0	748
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	293	146	764	357	0	0	0	0	233	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	293	146	764	357	0	0	0	0	233	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
FinalVolume:	0	293	146	764	357	0	0	0	0	233	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	1.00	1.00	2.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	1900	1750	3150	1900	0	0	0	0	1750	0	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.15	0.08	0.24	0.19	0.00	0.00	0.00	0.00	0.13	0.00	0.00
Crit Moves:		****		****						****		
Green/Cycle:	0.00	0.26	0.26	0.41	0.66	0.00	0.00	0.00	0.00	0.22	0.00	0.00
Volume/Cap:	0.00	0.60	0.32	0.60	0.28	0.00	0.00	0.00	0.00	0.60	0.00	0.00
Uniform Del:	0.0	26.0	24.0	18.6	5.5	0.0	0.0	0.0	0.0	27.9	0.0	0.0
IncremntDel:	0.0	2.0	0.4	0.8	0.1	0.0	0.0	0.0	0.0	2.5	0.0	0.0
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	0.00	1.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
Delay/Veh:	0.0	28.0	24.4	19.4	5.7	0.0	0.0	0.0	0.0	30.4	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	28.0	24.4	19.4	5.7	0.0	0.0	0.0	0.0	30.4	0.0	0.0
LOS by Move:	A	C	C	B	A	A	A	A	A	C	A	A
HCM2kAvgQ:	0	7	3	9	4	0	0	0	0	5	0	0

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background AM

Intersection #2: University Ave & Lark Ave



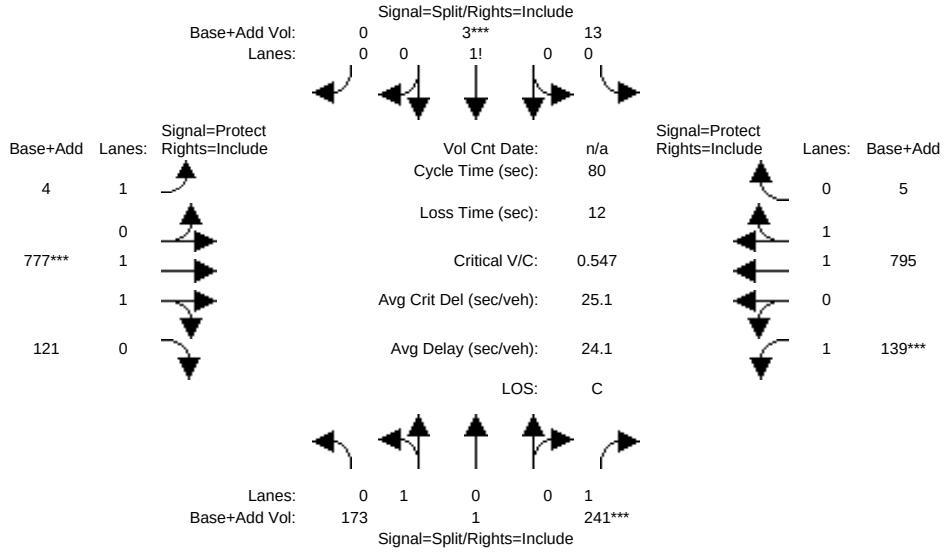
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	168	0	102	2	0	3	3	479	105	222	1082	8
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	168	0	102	2	0	3	3	479	105	222	1082	8
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	168	0	102	2	0	3	3	479	105	222	1082	8
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	168	0	102	2	0	3	3	479	105	222	1082	8
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	168	0	102	2	0	3	3	479	105	222	1082	8
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	168	0	102	2	0	3	3	479	105	222	1082	8
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	1.00	0.00	1.00	0.40	0.00	0.60	1.00	1.62	0.38	1.00	1.98	0.02
Final Sat.:	1750	0	1750	700	0	1050	1750	3069	673	1750	3770	28
Capacity Analysis Module:												
Vol/Sat:	0.10	0.00	0.06	0.00	0.00	0.00	0.00	0.16	0.16	0.13	0.29	0.29
Crit Moves:	****			****			****				****	
Green/Cycle:	0.16	0.00	0.16	0.13	0.00	0.13	0.09	0.31	0.31	0.25	0.48	0.48
Volume/Cap:	0.60	0.00	0.36	0.02	0.00	0.02	0.02	0.50	0.50	0.50	0.60	0.60
Uniform Del:	31.2	0.0	30.0	30.7	0.0	30.7	33.4	22.4	22.4	25.5	15.3	15.3
IncremntDel:	3.6	0.0	0.8	0.0	0.0	0.0	0.1	0.3	0.3	0.9	0.6	0.6
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	34.9	0.0	30.8	30.8	0.0	30.8	33.4	22.8	22.8	26.4	15.9	15.9
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	34.9	0.0	30.8	30.8	0.0	30.8	33.4	22.8	22.8	26.4	15.9	15.9
LOS by Move:	C	A	C	C	A	C	C	C	C	C	B	B
HCM2kAvgQ:	5	0	3	0	0	0	0	6	6	5	10	10

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background PM

Intersection #2: University Ave & Lark Ave



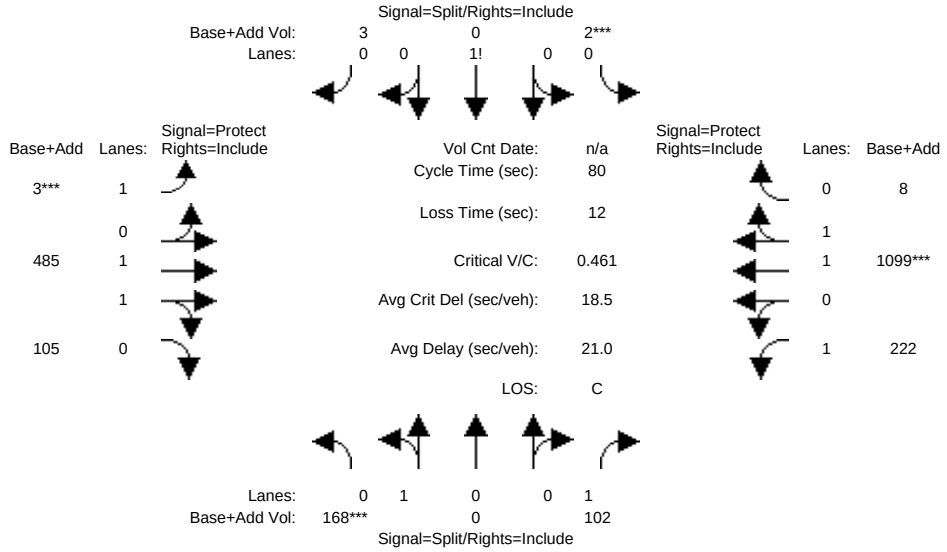
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	173	1	241	13	3	0	4	777	121	139	795	5
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	173	1	241	13	3	0	4	777	121	139	795	5
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	173	1	241	13	3	0	4	777	121	139	795	5
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	173	1	241	13	3	0	4	777	121	139	795	5
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	173	1	241	13	3	0	4	777	121	139	795	5
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	173	1	241	13	3	0	4	777	121	139	795	5
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.99	0.01	1.00	0.82	0.18	0.00	1.00	1.71	0.29	1.00	1.99	0.01
Final Sat.:	1741	10	1750	1443	333	0	1750	3250	506	1750	3774	24
Capacity Analysis Module:												
Vol/Sat:	0.10	0.10	0.14	0.01	0.01	0.00	0.00	0.24	0.24	0.08	0.21	0.21
Crit Moves:			****		****			****		****		
Green/Cycle:	0.22	0.22	0.22	0.13	0.13	0.00	0.15	0.38	0.38	0.13	0.36	0.36
Volume/Cap:	0.45	0.45	0.63	0.07	0.07	0.00	0.02	0.63	0.63	0.63	0.59	0.59
Uniform Del:	27.1	27.1	28.3	30.9	30.9	0.0	29.1	20.2	20.2	33.2	20.9	20.9
IncremntDel:	0.9	0.9	3.3	0.1	0.1	0.0	0.0	0.9	0.9	5.7	0.7	0.7
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	28.0	28.0	31.6	31.0	31.0	0.0	29.1	21.1	21.1	38.9	21.6	21.6
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	28.0	28.0	31.6	31.0	31.0	0.0	29.1	21.1	21.1	38.9	21.6	21.6
LOS by Move:	C	C	C	C	C	A	C	C	C	D	C	C
HCM2kAvgQ:	4	4	7	0	0	0	0	9	9	4	8	8

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background AM+P

Intersection #2: University Ave & Lark Ave



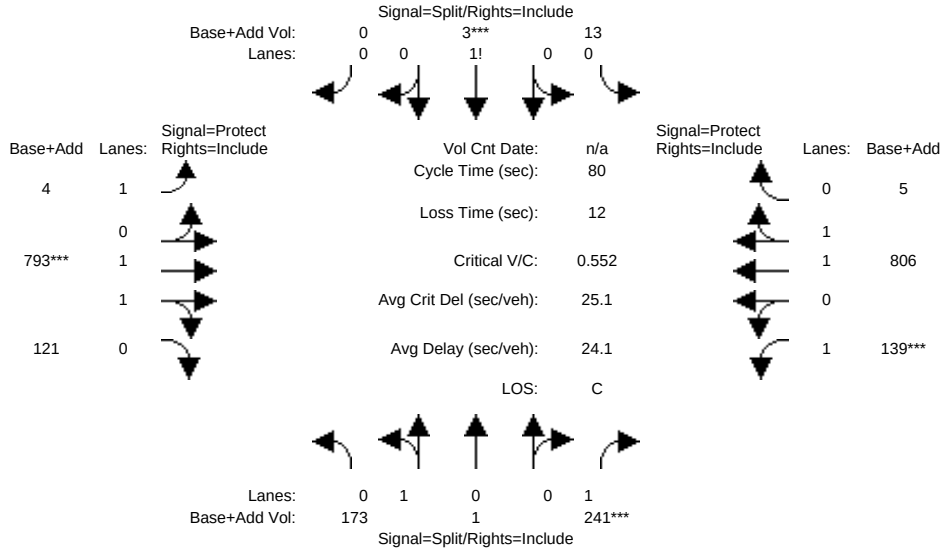
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	168	0	102	2	0	3	3	479	105	222	1082	8
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	168	0	102	2	0	3	3	479	105	222	1082	8
Added Vol:	0	0	0	0	0	0	0	6	0	0	17	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	168	0	102	2	0	3	3	485	105	222	1099	8
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	168	0	102	2	0	3	3	485	105	222	1099	8
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	168	0	102	2	0	3	3	485	105	222	1099	8
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	168	0	102	2	0	3	3	485	105	222	1099	8
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	1.00	0.00	1.00	0.40	0.00	0.60	1.00	1.62	0.38	1.00	1.98	0.02
Final Sat.:	1750	0	1750	700	0	1050	1750	3077	666	1750	3770	27
Capacity Analysis Module:												
Vol/Sat:	0.10	0.00	0.06	0.00	0.00	0.00	0.00	0.16	0.16	0.13	0.29	0.29
Crit Moves:	****			****			****				****	
Green/Cycle:	0.16	0.00	0.16	0.13	0.00	0.13	0.09	0.31	0.31	0.25	0.48	0.48
Volume/Cap:	0.61	0.00	0.37	0.02	0.00	0.02	0.02	0.50	0.50	0.50	0.61	0.61
Uniform Del:	31.4	0.0	30.1	30.7	0.0	30.7	33.4	22.3	22.3	25.6	15.3	15.3
IncremntDel:	3.9	0.0	0.8	0.0	0.0	0.0	0.1	0.3	0.3	0.9	0.6	0.6
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	35.3	0.0	31.0	30.8	0.0	30.8	33.4	22.7	22.7	26.5	15.9	15.9
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	35.3	0.0	31.0	30.8	0.0	30.8	33.4	22.7	22.7	26.5	15.9	15.9
LOS by Move:	D	A	C	C	A	C	C	C	C	C	B	B
HCM2kAvgQ:	5	0	3	0	0	0	0	6	6	5	10	10

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background PM +P

Intersection #2: University Ave & Lark Ave



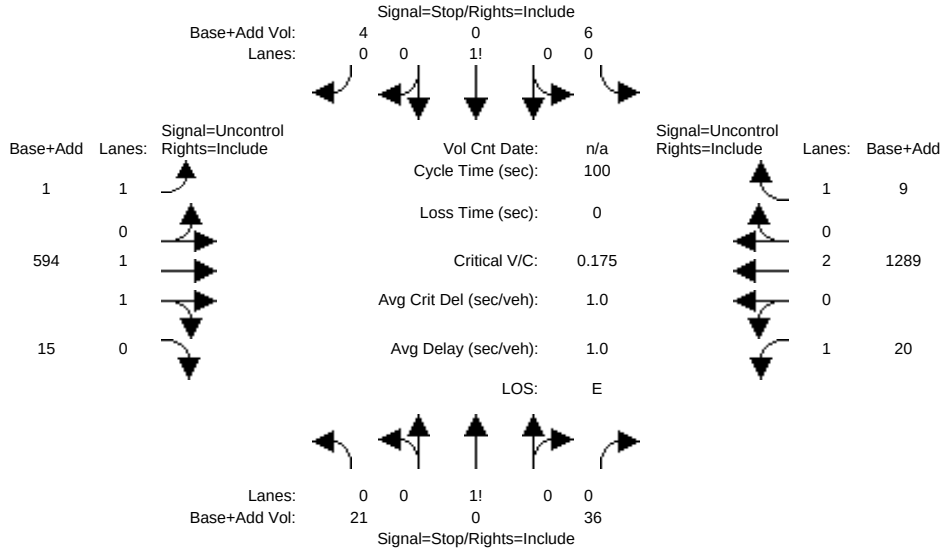
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	173	1	241	13	3	0	4	777	121	139	795	5
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	173	1	241	13	3	0	4	777	121	139	795	5
Added Vol:	0	0	0	0	0	0	0	16	0	0	11	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	173	1	241	13	3	0	4	793	121	139	806	5
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	173	1	241	13	3	0	4	793	121	139	806	5
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	173	1	241	13	3	0	4	793	121	139	806	5
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	173	1	241	13	3	0	4	793	121	139	806	5
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.99	0.01	1.00	0.82	0.18	0.00	1.00	1.72	0.28	1.00	1.99	0.01
Final Sat.:	1741	10	1750	1443	333	0	1750	3260	497	1750	3775	23
Capacity Analysis Module:												
Vol/Sat:	0.10	0.10	0.14	0.01	0.01	0.00	0.00	0.24	0.24	0.08	0.21	0.21
Crit Moves:			****		****			****		****		
Green/Cycle:	0.22	0.22	0.22	0.13	0.13	0.00	0.15	0.38	0.38	0.13	0.36	0.36
Volume/Cap:	0.46	0.46	0.64	0.07	0.07	0.00	0.02	0.64	0.64	0.64	0.59	0.59
Uniform Del:	27.2	27.2	28.5	30.9	30.9	0.0	29.1	20.1	20.1	33.3	20.8	20.8
IncremntDel:	0.9	0.9	3.5	0.1	0.1	0.0	0.0	0.9	0.9	6.0	0.7	0.7
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	28.1	28.1	32.0	31.0	31.0	0.0	29.1	21.1	21.1	39.3	21.5	21.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	28.1	28.1	32.0	31.0	31.0	0.0	29.1	21.1	21.1	39.3	21.5	21.5
LOS by Move:	C	C	C	C	C	A	C	C	C	D	C	C
HCM2kAvgQ:	4	4	7	0	0	0	0	9	9	4	8	8

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Alternative)
Background AM

Intersection #3: Mill Rd/Arroyo Grande Way & Lark Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module:												
Base Vol:	21	0	36	6	0	4	1	594	15	20	1289	9
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	21	0	36	6	0	4	1	594	15	20	1289	9
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	21	0	36	6	0	4	1	594	15	20	1289	9
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	21	0	36	6	0	4	1	594	15	20	1289	9
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	21	0	36	6	0	4	1	594	15	20	1289	9
Critical Gap Module:												
Critical Gp:	7.5	6.5	6.9	7.5	6.5	6.9	4.1	xxxx	xxxxx	4.1	xxxx	xxxxx
FollowUpTim:	3.5	4.0	3.3	3.5	4.0	3.3	2.2	xxxx	xxxxx	2.2	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	1288	1942	305	1628	1940	645	1298	xxxx	xxxxx	609	xxxx	xxxxx
Potent Cap.:	123	66	697	69	66	420	540	xxxx	xxxxx	979	xxxx	xxxxx
Move Cap.:	120	64	697	64	65	420	540	xxxx	xxxxx	979	xxxx	xxxxx
Volume/Cap:	0.17	0.00	0.05	0.09	0.00	0.01	0.00	xxxx	xxxx	0.02	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.0	xxxx	xxxxx	0.1	xxxx	xxxxx
Control Del:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	11.7	xxxx	xxxxx	8.8	xxxx	xxxxx
LOS by Move:	*	*	*	*	*	*	B	*	*	A	*	*
Movement:	LT - LTR - RT			LT - LTR - RT			LT - LTR - RT			LT - LTR - RT		
Shared Cap.:	xxxx	252	xxxxx	xxxx	97	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	0.8	xxxxx	xxxxx	0.3	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	23.5	xxxxx	xxxxx	46.2	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	C	*	*	E	*	*	*	*	*	*	*
ApproachDel:		23.5			46.2		xxxxxx			xxxxxx		
ApproachLOS:		C			E		*			*		

Note: Queue reported is the number of cars per lane.

Peak Hour Delay Signal Warrant Report

****

Intersection #3 Mill Rd/Arroyo Grande Way & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 1!	0	0	0 0 1!	0	0	1 0	1	1 0	1 0	2	0 1
Initial Vol:	21	0	36	6	0	4	1	594	15	20	1289	9
ApproachDel:	23.5			46.2			xxxxxx			xxxxxx		

Approach[northbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.4]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=57]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=1995]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[southbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=10]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=1995]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER
This peak hour signal warrant analysis should be considered solely as an "indicator" of the likelihood of an unsignalized intersection warranting a traffic signal in the future. Intersections that exceed this warrant are probably more likely to meet one or more of the other volume based signal warrant (such as the 4-hour or 8-hour warrants).

The peak hour warrant analysis in this report is not intended to replace a rigorous and complete traffic signal warrant analysis by the responsible jurisdiction. Consideration of the other signal warrants, which is beyond the scope of this software, may yield different results.

Peak Hour Volume Signal Warrant Report [Urban]

****

Intersection #3 Mill Rd/Arroyo Grande Way & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 1!	0	0	0 0 1!	0	0	1 0	1	1 0	1 0	2	0 1
Initial Vol:	21	0	36	6	0	4	1	594	15	20	1289	9

Major Street Volume: 1928
Minor Approach Volume: 57
Minor Approach Volume Threshold: 59 [less than minimum of 100]

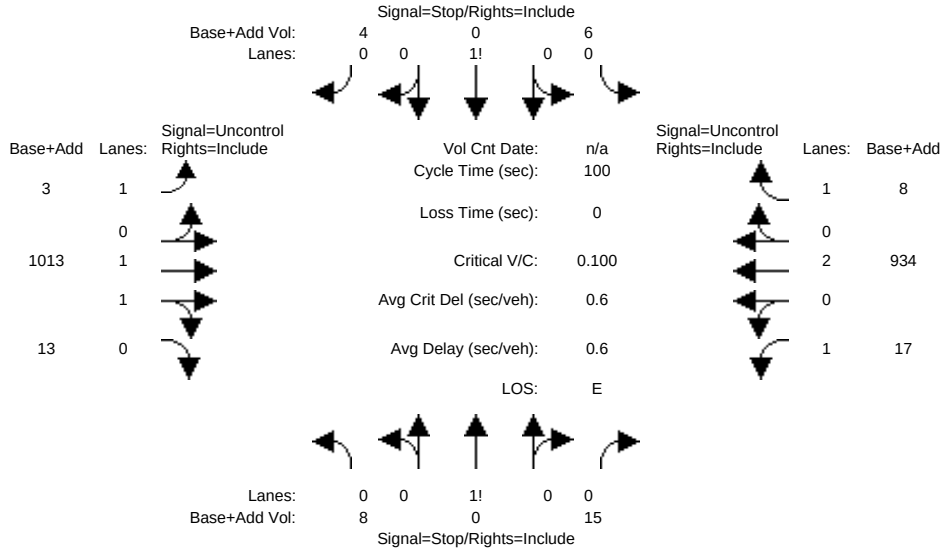
SIGNAL WARRANT DISCLAIMER
This peak hour signal warrant analysis should be considered solely as an "indicator" of the likelihood of an unsignalized intersection warranting a traffic signal in the future. Intersections that exceed this warrant are probably more likely to meet one or more of the other volume based signal warrant (such as the 4-hour or 8-hour warrants).

The peak hour warrant analysis in this report is not intended to replace a rigorous and complete traffic signal warrant analysis by the responsible jurisdiction. Consideration of the other signal warrants, which is beyond the scope of this software, may yield different results.

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Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Alternative)
Background PM

Intersection #3: Mill Rd/Arroyo Grande Way & Lark Ave



Approach:	North Bound			South Bound			East Bound				West Bound			
Movement:	L	T	R	L	T	R	L	T	R		L	T	R	
Volume Module:														
Base Vol:	8	0	15	6	0	4	3	1013	13		17	934	8	
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	
Initial Bse:	8	0	15	6	0	4	3	1013	13		17	934	8	
Added Vol:	0	0	0	0	0	0	0	0	0		0	0	0	
PasserByVol:	0	0	0	0	0	0	0	0	0		0	0	0	
Initial Fut:	8	0	15	6	0	4	3	1013	13		17	934	8	
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	
PHF Volume:	8	0	15	6	0	4	3	1013	13		17	934	8	
Reduct Vol:	0	0	0	0	0	0	0	0	0		0	0	0	
FinalVolume:	8	0	15	6	0	4	3	1013	13		17	934	8	
Critical Gap Module:														
Critical Gp:	7.5	6.5	6.9	7.5	6.5	6.9	4.1	xxxx	xxxxx		4.1	xxxx	xxxxx	
FollowUpTim:	3.5	4.0	3.3	3.5	4.0	3.3	2.2	xxxx	xxxxx		2.2	xxxx	xxxxx	
Capacity Module:														
Cnflict Vol:	1527	2002	513	1481	2000	467	942	xxxx	xxxxx		1026	xxxx	xxxxx	
Potent Cap.:	82	60	512	89	61	548	736	xxxx	xxxxx		685	xxxx	xxxxx	
Move Cap.:	80	59	512	84	59	548	736	xxxx	xxxxx		685	xxxx	xxxxx	
Volume/Cap:	0.10	0.00	0.03	0.07	0.00	0.01	0.00	xxxx	xxxx		0.02	xxxx	xxxx	
Level Of Service Module:														
2Way95thQ:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.0	xxxx	xxxxx		0.1	xxxx	xxxxx	
Control Del:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	9.9	xxxx	xxxxx		10.4	xxxx	xxxxx	
LOS by Move:	*	*	*	*	*	*	A	*	*		B	*	*	
Movement:	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT		LT	LTR	RT	
Shared Cap.:	xxxx	177	xxxxx	xxxx	127	xxxxx	xxxx	xxxx	xxxxx		xxxx	xxxx	xxxxx	
SharedQueue:	xxxxx	0.4	xxxxx	xxxxx	0.3	xxxxx	xxxxx	xxxx	xxxxx		xxxxx	xxxx	xxxxx	
Shrd ConDel:	xxxxx	28.3	xxxxx	xxxxx	35.6	xxxxx	xxxxx	xxxx	xxxxx		xxxxx	xxxx	xxxxx	
Shared LOS:	*	D	*	*	E	*	*	*	*		*	*	*	
ApproachDel:		28.3			35.6		xxxxxx				xxxxxx			
ApproachLOS:		D			E		*				*			

Note: Queue reported is the number of cars per lane.

Peak Hour Delay Signal Warrant Report

****

Intersection #3 Mill Rd/Arroyo Grande Way & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 1!	0	0	0 0 1!	0	0	1 0 1	1	0	1 0 2	0	1
Initial Vol:	8	0	15	6	0	4	3	1013	13	17	934	8
ApproachDel:	28.3			35.6			xxxxxx			xxxxxx		

Approach[northbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.2]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=23]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=2021]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[southbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=10]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=2021]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER
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Peak Hour Volume Signal Warrant Report [Urban]

****

Intersection #3 Mill Rd/Arroyo Grande Way & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 1!	0	0	0 0 1!	0	0	1 0 1	1	0	1 0 2	0	1
Initial Vol:	8	0	15	6	0	4	3	1013	13	17	934	8

Major Street Volume: 1988
Minor Approach Volume: 23
Minor Approach Volume Threshold: 48 [less than minimum of 100]

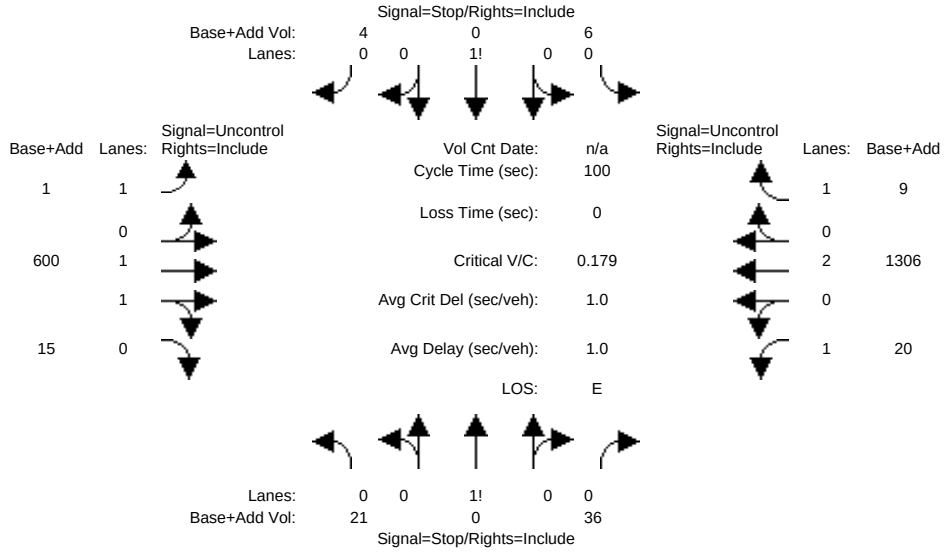
SIGNAL WARRANT DISCLAIMER
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Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Alternative)
Background AM+P

Intersection #3: Mill Rd/Arroyo Grande Way & Lark Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module:												
Base Vol:	21	0	36	6	0	4	1	594	15	20	1289	9
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	21	0	36	6	0	4	1	594	15	20	1289	9
Added Vol:	0	0	0	0	0	0	0	6	0	0	17	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	21	0	36	6	0	4	1	600	15	20	1306	9
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	21	0	36	6	0	4	1	600	15	20	1306	9
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	21	0	36	6	0	4	1	600	15	20	1306	9
Critical Gap Module:												
Critical Gp:	7.5	6.5	6.9	7.5	6.5	6.9	4.1	xxxx	xxxxx	4.1	xxxx	xxxxx
FollowUpTim:	3.5	4.0	3.3	3.5	4.0	3.3	2.2	xxxx	xxxxx	2.2	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	1303	1965	308	1648	1963	653	1315	xxxx	xxxxx	615	xxxx	xxxxx
Potent Cap.:	120	64	694	67	64	415	533	xxxx	xxxxx	974	xxxx	xxxxx
Move Cap.:	117	62	694	62	62	415	533	xxxx	xxxxx	974	xxxx	xxxxx
Volume/Cap:	0.18	0.00	0.05	0.10	0.00	0.01	0.00	xxxx	xxxx	0.02	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.0	xxxx	xxxxx	0.1	xxxx	xxxxx
Control Del:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	11.8	xxxx	xxxxx	8.8	xxxx	xxxxx
LOS by Move:	*	*	*	*	*	*	B	*	*	A	*	*
Movement:	LT - LTR		RT	LT - LTR		RT	LT - LTR		RT	LT - LTR		RT
Shared Cap.:	xxxx	246	xxxxx	xxxx	94	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	0.9	xxxxx	xxxxx	0.3	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	23.9	xxxxx	xxxxx	47.8	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	C	*	*	E	*	*	*	*	*	*	*
ApproachDel:		23.9			47.8		xxxxxx			xxxxxx		
ApproachLOS:		C			E		*			*		

Note: Queue reported is the number of cars per lane.

Peak Hour Delay Signal Warrant Report

****

Intersection #3 Mill Rd/Arroyo Grande Way & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 1!	0	0	0 0 1!	0	0	1 0 1	1	0	1 0 2	0	1
Initial Vol:	21	0	36	6	0	4	1	600	15	20	1306	9
ApproachDel:	23.9			47.8			xxxxxx			xxxxxx		

Approach[northbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.4]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=57]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=2018]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[southbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=10]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=2018]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER
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Peak Hour Volume Signal Warrant Report [Urban]

****

Intersection #3 Mill Rd/Arroyo Grande Way & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 1!	0	0	0 0 1!	0	0	1 0 1	1	0	1 0 2	0	1
Initial Vol:	21	0	36	6	0	4	1	600	15	20	1306	9

Major Street Volume: 1951
Minor Approach Volume: 57
Minor Approach Volume Threshold: 55 [less than minimum of 100]

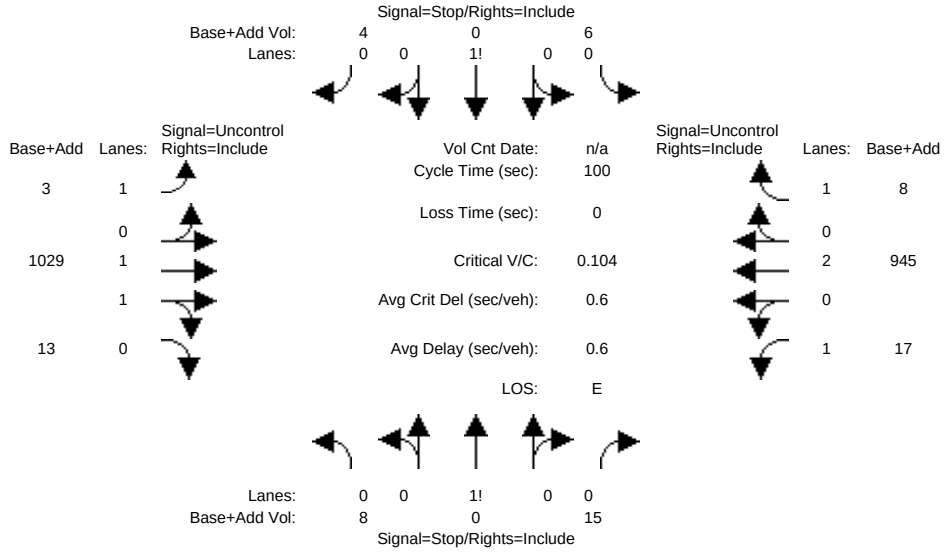
SIGNAL WARRANT DISCLAIMER
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Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Alternative)
Background PM +P

Intersection #3: Mill Rd/Arroyo Grande Way & Lark Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module:												
Base Vol:	8	0	15	6	0	4	3	1013	13	17	934	8
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	8	0	15	6	0	4	3	1013	13	17	934	8
Added Vol:	0	0	0	0	0	0	0	16	0	0	11	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	8	0	15	6	0	4	3	1029	13	17	945	8
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	8	0	15	6	0	4	3	1029	13	17	945	8
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	8	0	15	6	0	4	3	1029	13	17	945	8
Critical Gap Module:												
Critical Gp:	7.5	6.5	6.9	7.5	6.5	6.9	4.1	xxxx	xxxxx	4.1	xxxx	xxxxx
FollowUpTim:	3.5	4.0	3.3	3.5	4.0	3.3	2.2	xxxx	xxxxx	2.2	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	1548	2029	521	1500	2027	473	953	xxxx	xxxxx	1042	xxxx	xxxxx
Potent Cap.:	79	58	505	86	58	543	729	xxxx	xxxxx	675	xxxx	xxxxx
Move Cap.:	77	56	505	82	57	543	729	xxxx	xxxxx	675	xxxx	xxxxx
Volume/Cap:	0.10	0.00	0.03	0.07	0.00	0.01	0.00	xxxx	xxxx	0.03	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.0	xxxx	xxxxx	0.1	xxxx	xxxxx
Control Del:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	10.0	xxxx	xxxxx	10.5	xxxx	xxxxx
LOS by Move:	*	*	*	*	*	*	A	*	*	B	*	*
Movement:	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT
Shared Cap.:	xxxx	172	xxxxx	xxxx	124	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	0.5	xxxxx	xxxxx	0.3	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	29.2	xxxxx	xxxxx	36.7	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	D	*	*	E	*	*	*	*	*	*	*
ApproachDel:		29.2			36.7		xxxxxx			xxxxxx		
ApproachLOS:		D			E		*			*		

Note: Queue reported is the number of cars per lane.

Peak Hour Delay Signal Warrant Report

****

Intersection #3 Mill Rd/Arroyo Grande Way & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 1!	0	0	0 0 1!	0	0	1 0 1	1	0	1 0 2	0	1
Initial Vol:	8	0	15	6	0	4	3	1029	13	17	945	8
ApproachDel:	29.2			36.7			xxxxxx			xxxxxx		

Approach[northbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.2]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=23]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=2048]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[southbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=10]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=2048]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER
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Peak Hour Volume Signal Warrant Report [Urban]

****

Intersection #3 Mill Rd/Arroyo Grande Way & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 1!	0	0	0 0 1!	0	0	1 0 1	1	0	1 0 2	0	1
Initial Vol:	8	0	15	6	0	4	3	1029	13	17	945	8

Major Street Volume: 2015
Minor Approach Volume: 23
Minor Approach Volume Threshold: 43 [less than minimum of 100]

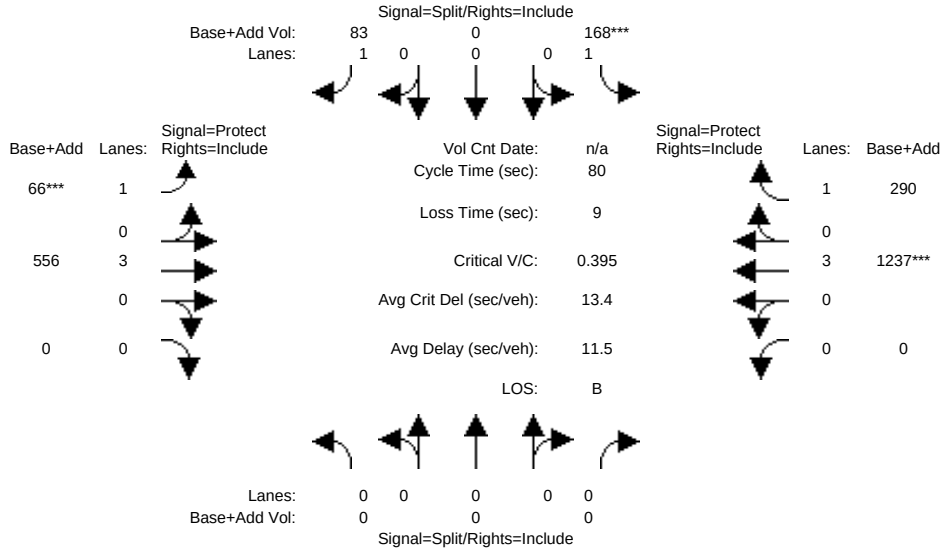
SIGNAL WARRANT DISCLAIMER
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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background AM

Intersection #4: Oka Rd & Lark Ave



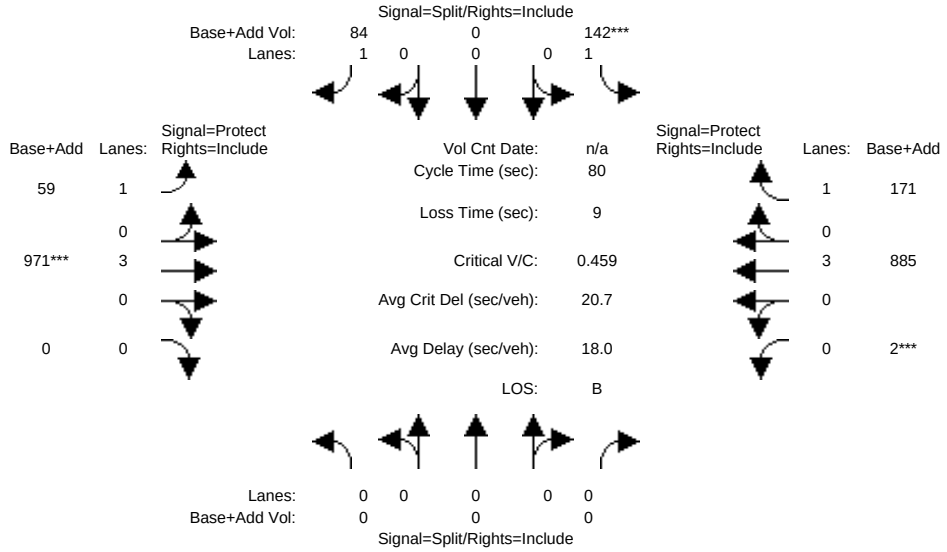
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	0	0	168	0	83	66	556	0	0	1237	290
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	168	0	83	66	556	0	0	1237	290
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	168	0	83	66	556	0	0	1237	290
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	168	0	83	66	556	0	0	1237	290
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	168	0	83	66	556	0	0	1237	290
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	168	0	83	66	556	0	0	1237	290
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	3.00	0.00	0.00	3.00	1.00
Final Sat.:	0	0	0	1750	0	1750	1750	5700	0	0	5700	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.10	0.00	0.05	0.04	0.10	0.00	0.00	0.22	0.17
Crit Moves:				****			****				****	
Green/Cycle:	0.00	0.00	0.00	0.24	0.00	0.24	0.10	0.64	0.00	0.00	0.55	0.55
Volume/Cap:	0.00	0.00	0.00	0.40	0.00	0.20	0.40	0.15	0.00	0.00	0.40	0.30
Uniform Del:	0.0	0.0	0.0	25.4	0.0	24.1	34.0	5.6	0.0	0.0	10.4	9.7
IncremntDel:	0.0	0.0	0.0	0.6	0.0	0.2	1.5	0.0	0.0	0.0	0.1	0.2
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Delay/Veh:	0.0	0.0	0.0	26.0	0.0	24.3	35.6	5.6	0.0	0.0	10.5	9.9
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	26.0	0.0	24.3	35.6	5.6	0.0	0.0	10.5	9.9
LOS by Move:	A	A	A	C	A	C	D	A	A	A	B	A
HCM2kAvgQ:	0	0	0	4	0	2	2	2	0	0	6	4

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background PM

Intersection #4: Oka Rd & Lark Ave



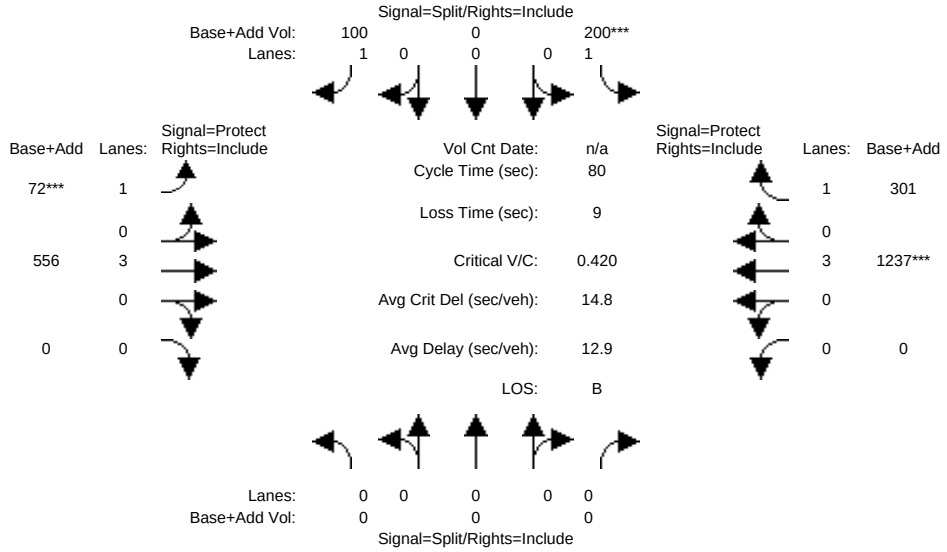
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	0	0	142	0	84	59	971	0	2	885	171
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	142	0	84	59	971	0	2	885	171
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	142	0	84	59	971	0	2	885	171
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	142	0	84	59	971	0	2	885	171
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	142	0	84	59	971	0	2	885	171
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	142	0	84	59	971	0	2	885	171
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	3.00	0.00	0.01	2.99	1.00
Final Sat.:	0	0	0	1750	0	1750	1750	5700	0	13	5686	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.08	0.00	0.05	0.03	0.17	0.00	0.16	0.16	0.10
Crit Moves:				****				****		****		
Green/Cycle:	0.00	0.00	0.00	0.18	0.00	0.18	0.26	0.37	0.00	0.34	0.45	0.45
Volume/Cap:	0.00	0.00	0.00	0.46	0.00	0.27	0.13	0.46	0.00	0.46	0.34	0.21
Uniform Del:	0.0	0.0	0.0	29.5	0.0	28.5	22.9	19.1	0.0	20.7	14.1	13.2
IncremntDel:	0.0	0.0	0.0	1.1	0.0	0.5	0.1	0.2	0.0	0.2	0.1	0.1
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Delay/Veh:	0.0	0.0	0.0	30.6	0.0	28.9	23.1	19.2	0.0	20.9	14.2	13.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	30.6	0.0	28.9	23.1	19.2	0.0	20.9	14.2	13.3
LOS by Move:	A	A	A	C	A	C	C	B	A	C	B	B
HCM2kAvgQ:	0	0	0	4	0	2	1	6	0	5	4	3

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background AM+P

Intersection #4: Oka Rd & Lark Ave



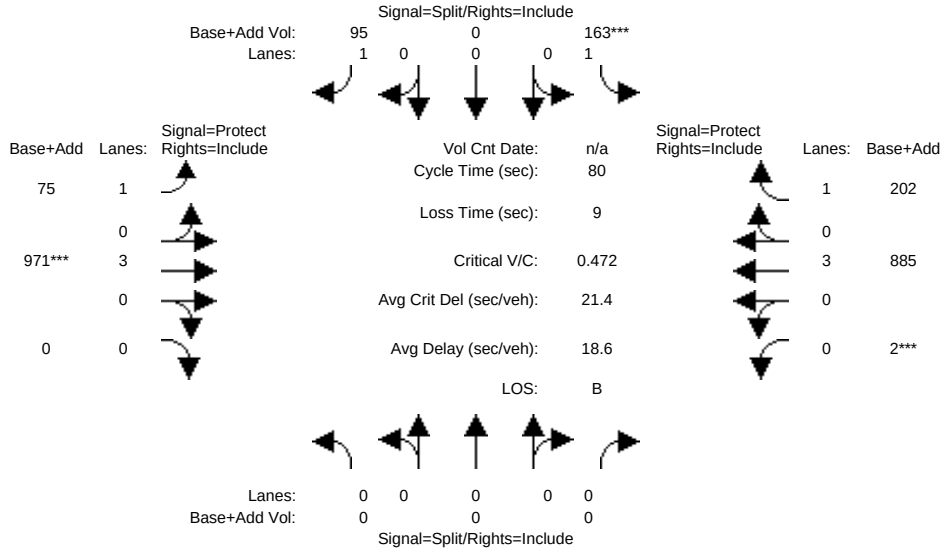
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	0	0	168	0	83	66	556	0	0	1237	290
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	168	0	83	66	556	0	0	1237	290
Added Vol:	0	0	0	32	0	17	6	0	0	0	0	11
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	200	0	100	72	556	0	0	1237	301
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	200	0	100	72	556	0	0	1237	301
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	200	0	100	72	556	0	0	1237	301
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	200	0	100	72	556	0	0	1237	301
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	3.00	0.00	0.00	3.00	1.00
Final Sat.:	0	0	0	1750	0	1750	1750	5700	0	0	5700	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.11	0.00	0.06	0.04	0.10	0.00	0.00	0.22	0.17
Crit Moves:				****			****				****	
Green/Cycle:	0.00	0.00	0.00	0.27	0.00	0.27	0.10	0.62	0.00	0.00	0.52	0.52
Volume/Cap:	0.00	0.00	0.00	0.42	0.00	0.21	0.42	0.16	0.00	0.00	0.42	0.33
Uniform Del:	0.0	0.0	0.0	23.9	0.0	22.5	33.9	6.6	0.0	0.0	11.9	11.3
IncremntDel:	0.0	0.0	0.0	0.6	0.0	0.2	1.7	0.0	0.0	0.0	0.1	0.2
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Delay/Veh:	0.0	0.0	0.0	24.5	0.0	22.7	35.6	6.6	0.0	0.0	12.0	11.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	24.5	0.0	22.7	35.6	6.6	0.0	0.0	12.0	11.5
LOS by Move:	A	A	A	C	A	C	D	A	A	A	B	B
HCM2kAvgQ:	0	0	0	5	0	2	2	2	0	0	6	4

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background PM +P

Intersection #4: Oka Rd & Lark Ave



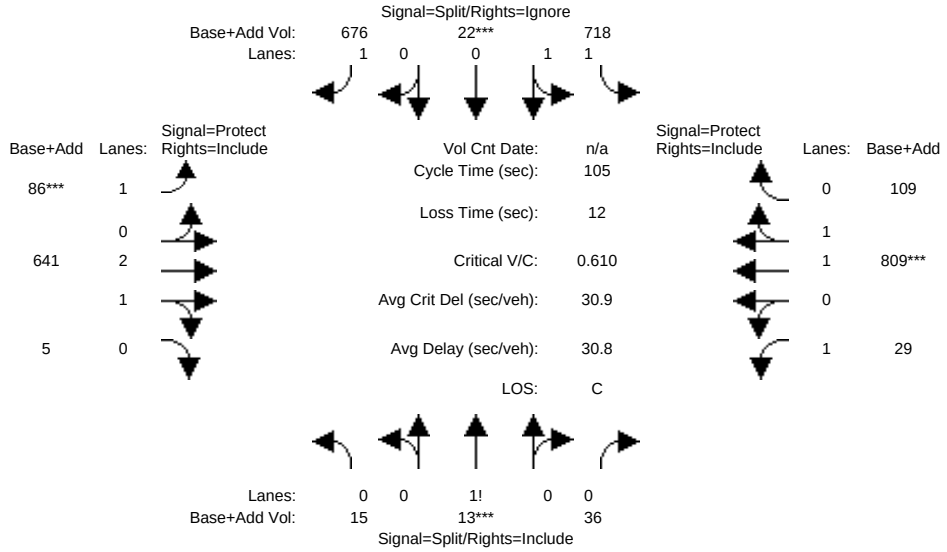
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	0	0	142	0	84	59	971	0	2	885	171
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	142	0	84	59	971	0	2	885	171
Added Vol:	0	0	0	21	0	11	16	0	0	0	0	31
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	163	0	95	75	971	0	2	885	202
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	163	0	95	75	971	0	2	885	202
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	163	0	95	75	971	0	2	885	202
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	163	0	95	75	971	0	2	885	202
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	3.00	0.00	0.01	2.99	1.00
Final Sat.:	0	0	0	1750	0	1750	1750	5700	0	13	5686	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.09	0.00	0.05	0.04	0.17	0.00	0.16	0.16	0.12
Crit Moves:				****				****		****		
Green/Cycle:	0.00	0.00	0.00	0.20	0.00	0.20	0.25	0.36	0.00	0.33	0.44	0.44
Volume/Cap:	0.00	0.00	0.00	0.47	0.00	0.28	0.17	0.47	0.00	0.47	0.35	0.26
Uniform Del:	0.0	0.0	0.0	28.4	0.0	27.3	23.6	19.7	0.0	21.3	14.8	14.1
IncremntDel:	0.0	0.0	0.0	1.0	0.0	0.4	0.2	0.2	0.0	0.2	0.1	0.2
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Delay/Veh:	0.0	0.0	0.0	29.4	0.0	27.7	23.8	19.9	0.0	21.5	14.8	14.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	29.4	0.0	27.7	23.8	19.9	0.0	21.5	14.8	14.3
LOS by Move:	A	A	A	C	A	C	C	B	A	C	B	B
HCM2kAvgQ:	0	0	0	4	0	2	1	6	0	6	5	3

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background AM

Intersection #5: SB 17 Ramp & Lark Ave



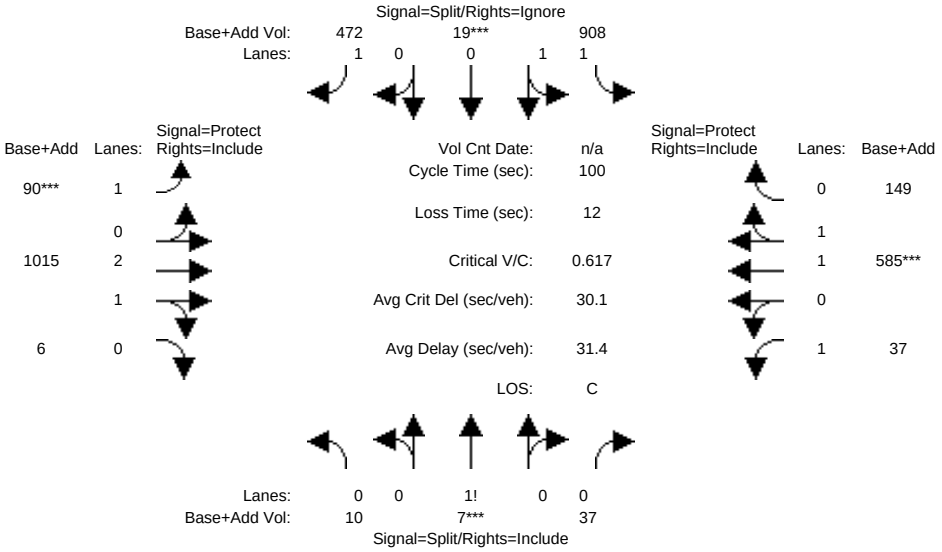
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	10	10	10	10	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	15	13	36	718	22	676	86	641	5	29	809	109
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	15	13	36	718	22	676	86	641	5	29	809	109
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	15	13	36	718	22	676	86	641	5	29	809	109
User Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	15	13	36	718	22	0	86	641	5	29	809	109
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	15	13	36	718	22	0	86	641	5	29	809	109
PCE Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	15	13	36	718	22	0	86	641	5	29	809	109
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.24	0.19	0.57	1.95	0.05	1.00	1.00	2.97	0.03	1.00	1.74	0.26
Final Sat.:	417	361	1000	3404	104	1750	1750	5652	44	1750	3315	447
Capacity Analysis Module:												
Vol/Sat:	0.04	0.04	0.04	0.21	0.21	0.00	0.05	0.11	0.11	0.02	0.24	0.24
Crit Moves:		****			****		****				****	
Green/Cycle:	0.10	0.10	0.10	0.33	0.33	0.00	0.08	0.29	0.29	0.17	0.38	0.38
Volume/Cap:	0.38	0.38	0.38	0.64	0.64	0.00	0.64	0.39	0.39	0.10	0.64	0.64
Uniform Del:	44.6	44.6	44.6	29.8	29.8	0.0	47.0	29.9	29.9	36.8	26.5	26.5
IncremntDel:	1.4	1.4	1.4	1.2	1.2	0.0	9.8	0.2	0.2	0.1	1.0	1.0
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	46.0	46.0	46.0	31.0	31.0	0.0	56.8	30.0	30.0	36.9	27.4	27.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	46.0	46.0	46.0	31.0	31.0	0.0	56.8	30.0	30.0	36.9	27.4	27.4
LOS by Move:	D	D	D	C	C	A	E	C	C	D	C	C
HCM2kAvgQ:	2	2	2	12	12	0	3	5	5	1	12	12

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background PM

Intersection #5: SB 17 Ramp & Lark Ave



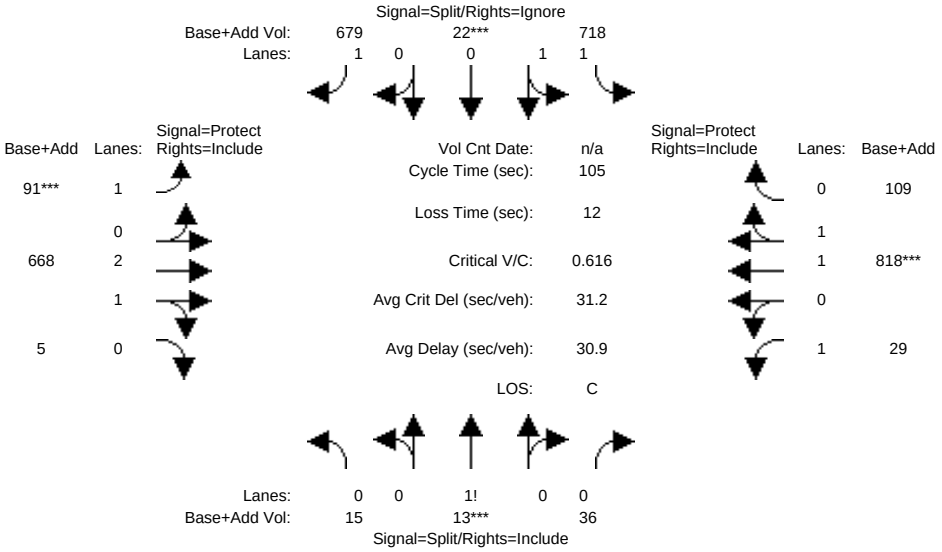
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	10	7	37	908	19	472	90	1015	6	37	585	149
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	10	7	37	908	19	472	90	1015	6	37	585	149
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	10	7	37	908	19	472	90	1015	6	37	585	149
User Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	10	7	37	908	19	0	90	1015	6	37	585	149
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	10	7	37	908	19	0	90	1015	6	37	585	149
PCE Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	10	7	37	908	19	0	90	1015	6	37	585	149
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.19	0.12	0.69	1.96	0.04	1.00	1.00	2.98	0.02	1.00	1.57	0.43
Final Sat.:	327	229	1211	3434	72	1750	1750	5664	33	1750	2977	758
Capacity Analysis Module:												
Vol/Sat:	0.03	0.03	0.03	0.26	0.26	0.00	0.05	0.18	0.18	0.02	0.20	0.20
Crit Moves:		****			****		****				****	
Green/Cycle:	0.10	0.10	0.10	0.40	0.40	0.00	0.08	0.27	0.27	0.11	0.30	0.30
Volume/Cap:	0.31	0.31	0.31	0.66	0.66	0.00	0.66	0.66	0.66	0.20	0.66	0.66
Uniform Del:	41.8	41.8	41.8	24.3	24.3	0.0	44.8	32.3	32.3	40.8	30.6	30.6
IncremntDel:	1.0	1.0	1.0	1.1	1.1	0.0	11.1	1.1	1.1	0.5	1.4	1.4
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	42.8	42.8	42.8	25.4	25.4	0.0	55.8	33.4	33.4	41.4	32.0	32.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	42.8	42.8	42.8	25.4	25.4	0.0	55.8	33.4	33.4	41.4	32.0	32.0
LOS by Move:	D	D	D	C	C	A	E	C	C	D	C	C
HCM2kAvgQ:	2	2	2	13	13	0	3	9	9	1	10	10

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background AM+P

Intersection #5: SB 17 Ramp & Lark Ave



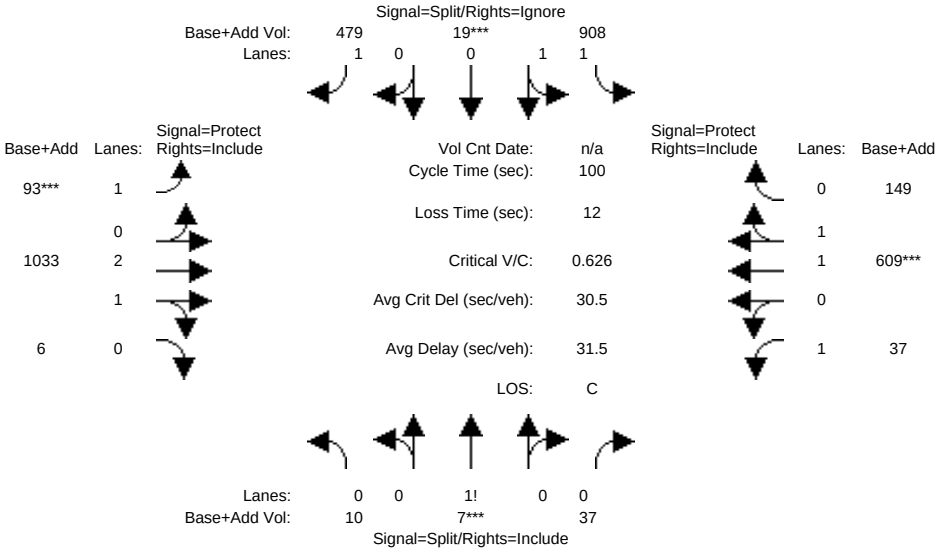
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	15	13	36	718	22	676	86	641	5	29	809	109
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	15	13	36	718	22	676	86	641	5	29	809	109
Added Vol:	0	0	0	0	0	3	5	27	0	0	9	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	15	13	36	718	22	679	91	668	5	29	818	109
User Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	15	13	36	718	22	0	91	668	5	29	818	109
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	15	13	36	718	22	0	91	668	5	29	818	109
PCE Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	15	13	36	718	22	0	91	668	5	29	818	109
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.24	0.19	0.57	1.95	0.05	1.00	1.00	2.98	0.02	1.00	1.75	0.25
Final Sat.:	417	361	1000	3404	104	1750	1750	5654	42	1750	3320	442
Capacity Analysis Module:												
Vol/Sat:	0.04	0.04	0.04	0.21	0.21	0.00	0.05	0.12	0.12	0.02	0.25	0.25
Crit Moves:		****			****		****				****	
Green/Cycle:	0.10	0.10	0.10	0.33	0.33	0.00	0.08	0.30	0.30	0.17	0.38	0.38
Volume/Cap:	0.38	0.38	0.38	0.64	0.64	0.00	0.64	0.40	0.40	0.10	0.64	0.64
Uniform Del:	44.6	44.6	44.6	30.1	30.1	0.0	46.8	29.5	29.5	37.0	26.6	26.6
IncremntDel:	1.4	1.4	1.4	1.3	1.3	0.0	9.8	0.2	0.2	0.1	1.0	1.0
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	46.0	46.0	46.0	31.4	31.4	0.0	56.6	29.7	29.7	37.2	27.6	27.6
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	46.0	46.0	46.0	31.4	31.4	0.0	56.6	29.7	29.7	37.2	27.6	27.6
LOS by Move:	D	D	D	C	C	A	E	C	C	D	C	C
HCM2kAvgQ:	2	2	2	12	12	0	3	6	6	1	12	12

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background PM +P

Intersection #5: SB 17 Ramp & Lark Ave



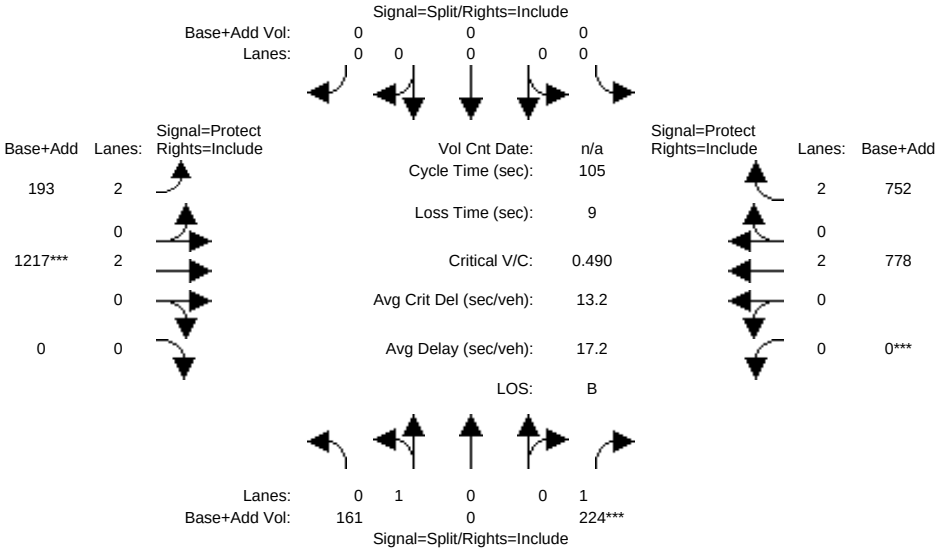
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	10	7	37	908	19	472	90	1015	6	37	585	149
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	10	7	37	908	19	472	90	1015	6	37	585	149
Added Vol:	0	0	0	0	0	7	3	18	0	0	24	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	10	7	37	908	19	479	93	1033	6	37	609	149
User Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	10	7	37	908	19	0	93	1033	6	37	609	149
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	10	7	37	908	19	0	93	1033	6	37	609	149
PCE Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	10	7	37	908	19	0	93	1033	6	37	609	149
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.19	0.12	0.69	1.96	0.04	1.00	1.00	2.98	0.02	1.00	1.58	0.42
Final Sat.:	327	229	1211	3434	72	1750	1750	5664	33	1750	3002	735
Capacity Analysis Module:												
Vol/Sat:	0.03	0.03	0.03	0.26	0.26	0.00	0.05	0.18	0.18	0.02	0.20	0.20
Crit Moves:		****			****		****				****	
Green/Cycle:	0.10	0.10	0.10	0.40	0.40	0.00	0.08	0.28	0.28	0.11	0.30	0.30
Volume/Cap:	0.31	0.31	0.31	0.67	0.67	0.00	0.67	0.66	0.66	0.20	0.67	0.67
Uniform Del:	41.8	41.8	41.8	24.8	24.8	0.0	44.7	31.9	31.9	40.8	30.4	30.4
IncremntDel:	1.0	1.0	1.0	1.3	1.3	0.0	11.7	1.0	1.0	0.5	1.5	1.5
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	42.8	42.8	42.8	26.0	26.0	0.0	56.4	33.0	33.0	41.3	31.9	31.9
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	42.8	42.8	42.8	26.0	26.0	0.0	56.4	33.0	33.0	41.3	31.9	31.9
LOS by Move:	D	D	D	C	C	A	E	C	C	D	C	C
HCM2kAvgQ:	2	2	2	13	13	0	3	9	9	1	10	10

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background AM

Intersection #6: NB 17 Ramp & Lark Ave



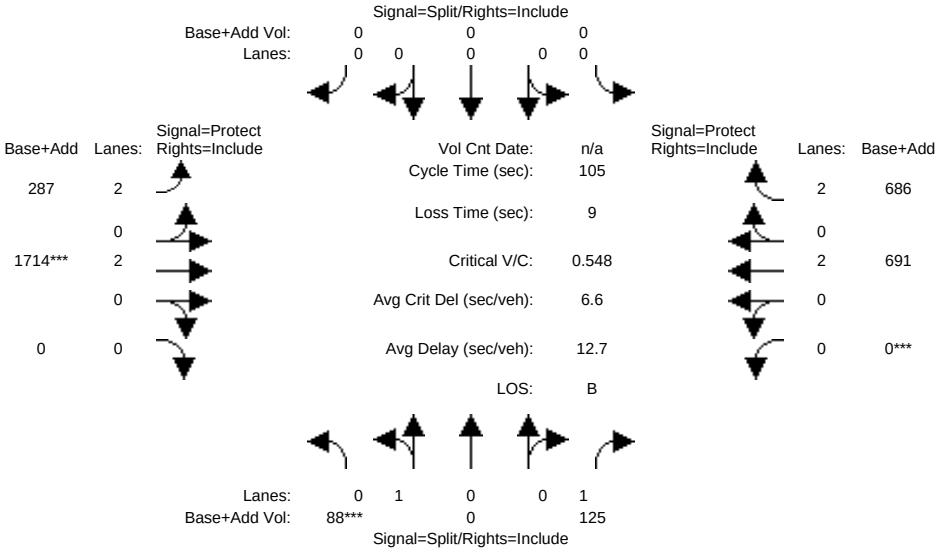
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	0	0	0	7	10	0	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	161	0	224	0	0	0	193	1217	0	0	778	752
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	161	0	224	0	0	0	193	1217	0	0	778	752
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	161	0	224	0	0	0	193	1217	0	0	778	752
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	161	0	224	0	0	0	193	1217	0	0	778	752
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	161	0	224	0	0	0	193	1217	0	0	778	752
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	161	0	224	0	0	0	193	1217	0	0	778	752
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.83
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00	2.00	2.00
Final Sat.:	1750	0	1750	0	0	0	3150	3800	0	0	3800	3150
Capacity Analysis Module:												
Vol/Sat:	0.09	0.00	0.13	0.00	0.00	0.00	0.06	0.32	0.00	0.00	0.20	0.24
Crit Moves:			****					****		****		
Green/Cycle:	0.26	0.00	0.26	0.00	0.00	0.00	0.14	0.65	0.00	0.00	0.51	0.51
Volume/Cap:	0.35	0.00	0.49	0.00	0.00	0.00	0.43	0.49	0.00	0.00	0.40	0.47
Uniform Del:	31.6	0.0	32.9	0.0	0.0	0.0	41.1	9.3	0.0	0.0	15.8	16.5
IncremntDel:	0.5	0.0	0.8	0.0	0.0	0.0	0.7	0.2	0.0	0.0	0.1	0.2
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00
Delay/Veh:	32.0	0.0	33.7	0.0	0.0	0.0	41.8	9.4	0.0	0.0	15.9	16.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	32.0	0.0	33.7	0.0	0.0	0.0	41.8	9.4	0.0	0.0	15.9	16.7
LOS by Move:	C	A	C	A	A	A	D	A	A	A	B	B
HCM2kAvgQ:	5	0	7	0	0	0	3	10	0	0	7	9

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background PM

Intersection #6: NB 17 Ramp & Lark Ave



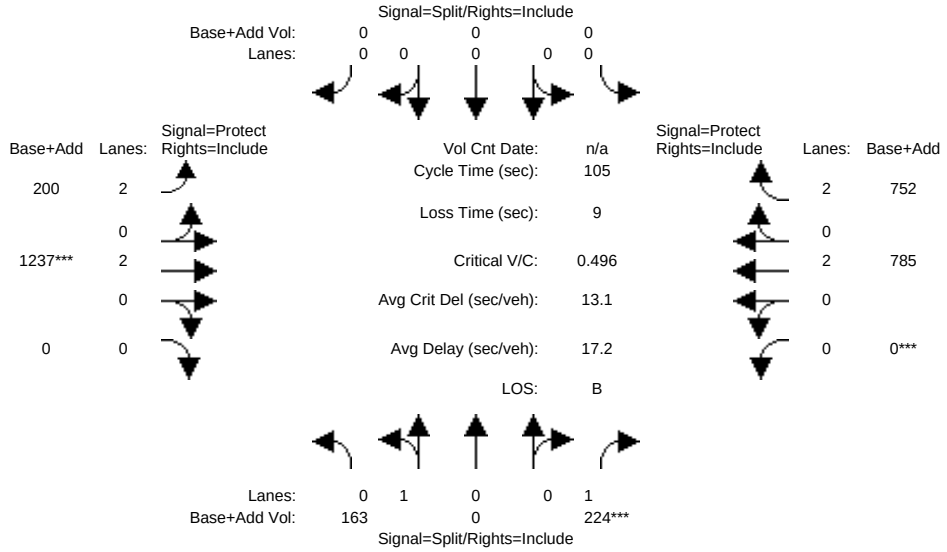
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	0	0	0	7	10	10	0	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	88	0	125	0	0	0	287	1714	0	0	691	686
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	88	0	125	0	0	0	287	1714	0	0	691	686
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	88	0	125	0	0	0	287	1714	0	0	691	686
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	88	0	125	0	0	0	287	1714	0	0	691	686
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	88	0	125	0	0	0	287	1714	0	0	691	686
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	88	0	125	0	0	0	287	1714	0	0	691	686
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.83
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00	2.00	2.00
Final Sat.:	1750	0	1750	0	0	0	3150	3800	0	0	3800	3150
Capacity Analysis Module:												
Vol/Sat:	0.05	0.00	0.07	0.00	0.00	0.00	0.09	0.45	0.00	0.00	0.18	0.22
Crit Moves:	****							****		****		
Green/Cycle:	0.13	0.00	0.13	0.00	0.00	0.00	0.23	0.78	0.00	0.00	0.55	0.55
Volume/Cap:	0.39	0.00	0.55	0.00	0.00	0.00	0.39	0.58	0.00	0.00	0.33	0.39
Uniform Del:	41.8	0.0	42.8	0.0	0.0	0.0	34.1	4.5	0.0	0.0	12.8	13.4
IncremntDel:	1.1	0.0	2.8	0.0	0.0	0.0	0.4	0.3	0.0	0.0	0.1	0.1
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00
Delay/Veh:	42.9	0.0	45.6	0.0	0.0	0.0	34.5	4.7	0.0	0.0	12.9	13.6
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	42.9	0.0	45.6	0.0	0.0	0.0	34.5	4.7	0.0	0.0	12.9	13.6
LOS by Move:	D	A	D	A	A	A	C	A	A	A	B	B
HCM2kAvgQ:	3	0	5	0	0	0	4	11	0	0	6	7

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background AM+P

Intersection #6: NB 17 Ramp & Lark Ave



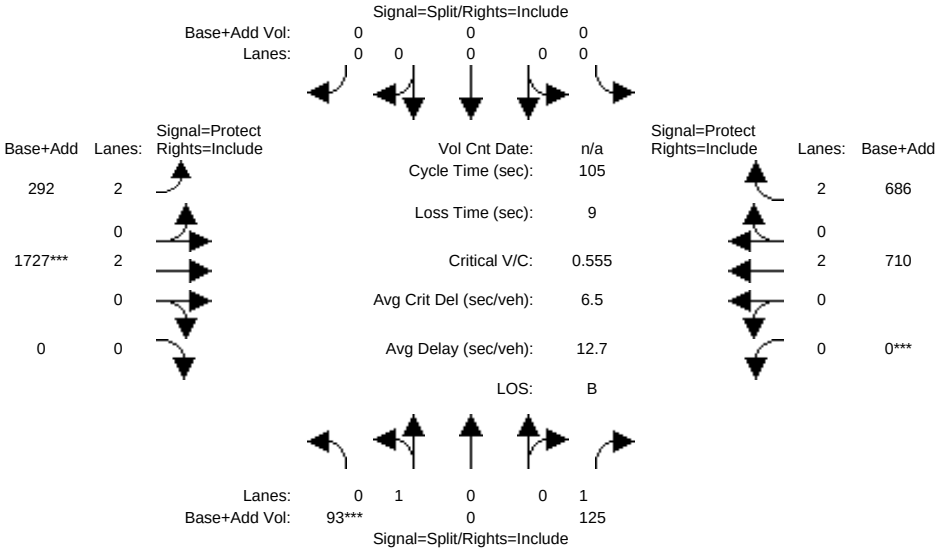
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	0	0	0	7	10	0	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	161	0	224	0	0	0	193	1217	0	0	778	752
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	161	0	224	0	0	0	193	1217	0	0	778	752
Added Vol:	2	0	0	0	0	0	7	20	0	0	7	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	163	0	224	0	0	0	200	1237	0	0	785	752
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	163	0	224	0	0	0	200	1237	0	0	785	752
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	163	0	224	0	0	0	200	1237	0	0	785	752
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	163	0	224	0	0	0	200	1237	0	0	785	752
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.83
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00	2.00	2.00
Final Sat.:	1750	0	1750	0	0	0	3150	3800	0	0	3800	3150
Capacity Analysis Module:												
Vol/Sat:	0.09	0.00	0.13	0.00	0.00	0.00	0.06	0.33	0.00	0.00	0.21	0.24
Crit Moves:			****					****		****		
Green/Cycle:	0.26	0.00	0.26	0.00	0.00	0.00	0.14	0.66	0.00	0.00	0.51	0.51
Volume/Cap:	0.36	0.00	0.50	0.00	0.00	0.00	0.44	0.50	0.00	0.00	0.40	0.47
Uniform Del:	31.9	0.0	33.1	0.0	0.0	0.0	41.1	9.2	0.0	0.0	15.7	16.4
IncremntDel:	0.5	0.0	0.9	0.0	0.0	0.0	0.7	0.2	0.0	0.0	0.1	0.2
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00
Delay/Veh:	32.4	0.0	34.0	0.0	0.0	0.0	41.8	9.4	0.0	0.0	15.8	16.6
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	32.4	0.0	34.0	0.0	0.0	0.0	41.8	9.4	0.0	0.0	15.8	16.6
LOS by Move:	C	A	C	A	A	A	D	A	A	A	B	B
HCM2kAvgQ:	5	0	7	0	0	0	3	10	0	0	8	9

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background PM +P

Intersection #6: NB 17 Ramp & Lark Ave



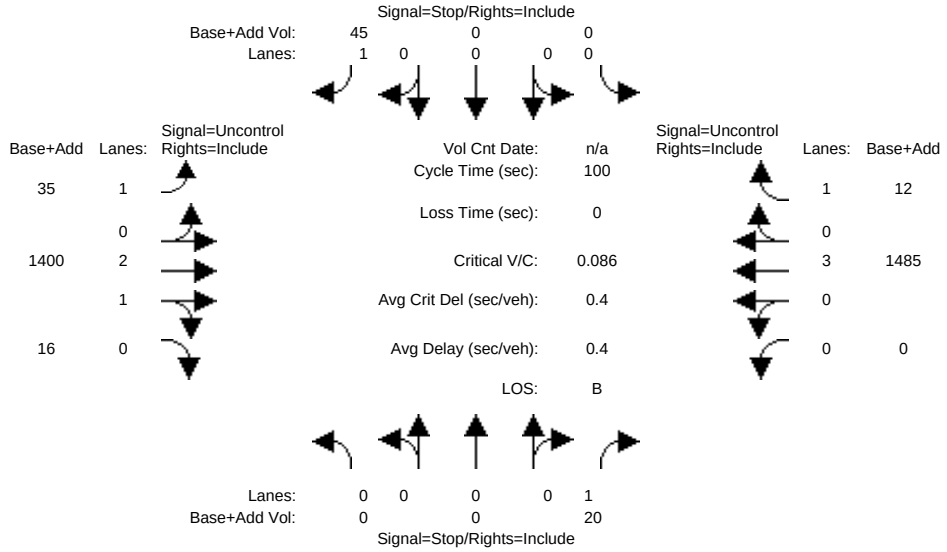
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	0	0	0	7	10	10	0	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	88	0	125	0	0	0	287	1714	0	0	691	686
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	88	0	125	0	0	0	287	1714	0	0	691	686
Added Vol:	5	0	0	0	0	0	5	13	0	0	19	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	93	0	125	0	0	0	292	1727	0	0	710	686
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	93	0	125	0	0	0	292	1727	0	0	710	686
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	93	0	125	0	0	0	292	1727	0	0	710	686
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	93	0	125	0	0	0	292	1727	0	0	710	686
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.83
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00	2.00	2.00
Final Sat.:	1750	0	1750	0	0	0	3150	3800	0	0	3800	3150
Capacity Analysis Module:												
Vol/Sat:	0.05	0.00	0.07	0.00	0.00	0.00	0.09	0.45	0.00	0.00	0.19	0.22
Crit Moves:	****							****		****		
Green/Cycle:	0.12	0.00	0.12	0.00	0.00	0.00	0.24	0.79	0.00	0.00	0.55	0.55
Volume/Cap:	0.43	0.00	0.58	0.00	0.00	0.00	0.39	0.58	0.00	0.00	0.34	0.39
Uniform Del:	42.5	0.0	43.4	0.0	0.0	0.0	33.8	4.2	0.0	0.0	12.8	13.3
IncremntDel:	1.4	0.0	3.7	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.1	0.1
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00
Delay/Veh:	43.9	0.0	47.1	0.0	0.0	0.0	34.1	4.5	0.0	0.0	12.9	13.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	43.9	0.0	47.1	0.0	0.0	0.0	34.1	4.5	0.0	0.0	12.9	13.5
LOS by Move:	D	A	D	A	A	A	C	A	A	A	B	B
HCM2kAvgQ:	3	0	5	0	0	0	5	11	0	0	6	7

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Alternative)
Background AM

Intersection #7: Turner St/Highland Oaks Dr & Lark Ave



Approach:	North Bound			South Bound			East Bound				West Bound			
Movement:	L	- T	- R	L	- T	- R	L	- T	- R		L	- T	- R	
Volume Module:														
Base Vol:	0	0	20	0	0	45	35	1400	16		0	1485	12	
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	
Initial Bse:	0	0	20	0	0	45	35	1400	16		0	1485	12	
Added Vol:	0	0	0	0	0	0	0	0	0		0	0	0	
PasserByVol:	0	0	0	0	0	0	0	0	0		0	0	0	
Initial Fut:	0	0	20	0	0	45	35	1400	16		0	1485	12	
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	
PHF Volume:	0	0	20	0	0	45	35	1400	16		0	1485	12	
Reduct Vol:	0	0	0	0	0	0	0	0	0		0	0	0	
FinalVolume:	0	0	20	0	0	45	35	1400	16		0	1485	12	
Critical Gap Module:														
Critical Gp:	xxxxx	xxxx	6.9	xxxxx	xxxx	6.9	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx		
FollowUpTim:	xxxxx	xxxx	3.3	xxxxx	xxxx	3.3	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx		
Capacity Module:														
Cnflict Vol:	xxxx	xxxx	475	xxxx	xxxx	495	1497	xxxx	xxxxx	xxxx	xxxx	xxxxx		
Potent Cap.:	xxxx	xxxx	542	xxxx	xxxx	525	454	xxxx	xxxxx	xxxx	xxxx	xxxxx		
Move Cap.:	xxxx	xxxx	542	xxxx	xxxx	525	454	xxxx	xxxxx	xxxx	xxxx	xxxxx		
Volume/Cap:	xxxx	xxxx	0.04	xxxx	xxxx	0.09	0.08	xxxx	xxxx	xxxx	xxxx	xxxx		
Level Of Service Module:														
2Way95thQ:	xxxx	xxxx	0.1	xxxx	xxxx	0.3	0.2	xxxx	xxxxx	xxxx	xxxx	xxxxx		
Control Del:	xxxxx	xxxx	11.9	xxxxx	xxxx	12.5	13.6	xxxx	xxxxx	xxxxx	xxxx	xxxxx		
LOS by Move:	*	*	B	*	*	B	B	*	*	*	*	*		
Movement:	LT -	LTR -	RT	LT -	LTR -	RT	LT -	LTR -	RT		LT -	LTR -	RT	
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx		xxxx	xxxx	xxxxx	
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx		xxxxx	xxxx	xxxxx	
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx		xxxxx	xxxx	xxxxx	
Shared LOS:	*	*	*	*	*	*	*	*	*		*	*	*	
ApproachDel:	11.9			12.5			xxxxxx				xxxxxx			
ApproachLOS:	B			B			*				*			

Note: Queue reported is the number of cars per lane.

Peak Hour Delay Signal Warrant Report

****

Intersection #7 Turner St/Highland Oaks Dr & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 0	0	1	0 0 0	0	1	1 0 2	1	0	0 0 3	0	1
Initial Vol:	0	0	20	0	0	45	35	1400	16	0	1485	12
ApproachDel:	11.9			12.5			xxxxxx			xxxxxx		

Approach[northbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=20]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=3013]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[southbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.2]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=45]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=3013]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER
This peak hour signal warrant analysis should be considered solely as an "indicator" of the likelihood of an unsignalized intersection warranting a traffic signal in the future. Intersections that exceed this warrant are probably more likely to meet one or more of the other volume based signal warrant (such as the 4-hour or 8-hour warrants).

The peak hour warrant analysis in this report is not intended to replace a rigorous and complete traffic signal warrant analysis by the responsible jurisdiction. Consideration of the other signal warrants, which is beyond the scope of this software, may yield different results.

Peak Hour Volume Signal Warrant Report [Urban]

****

Intersection #7 Turner St/Highland Oaks Dr & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 0	0	1	0 0 0	0	1	1 0 2	1	0	0 0 3	0	1
Initial Vol:	0	0	20	0	0	45	35	1400	16	0	1485	12

Major Street Volume: 2948
Minor Approach Volume: 45
Minor Approach Volume Threshold: -88 [less than minimum of 100]

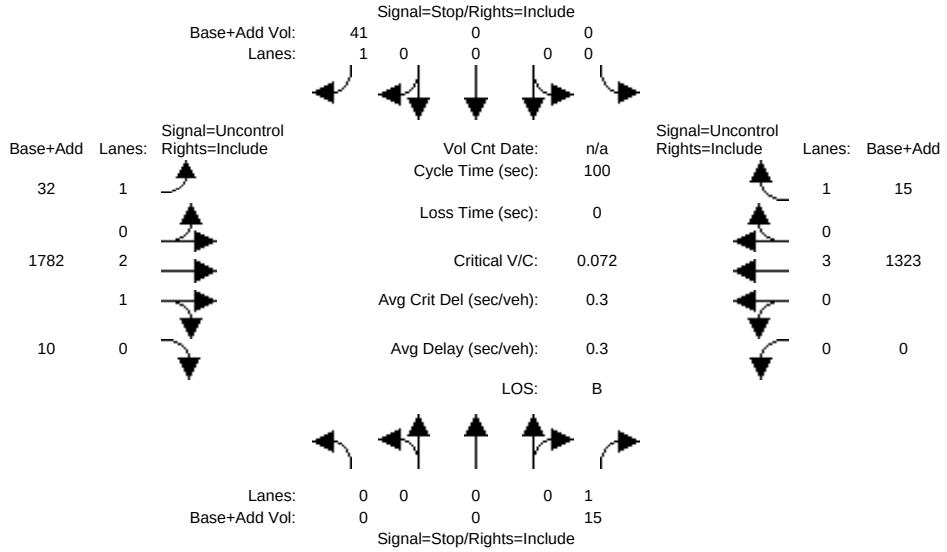
SIGNAL WARRANT DISCLAIMER
This peak hour signal warrant analysis should be considered solely as an "indicator" of the likelihood of an unsignalized intersection warranting a traffic signal in the future. Intersections that exceed this warrant are probably more likely to meet one or more of the other volume based signal warrant (such as the 4-hour or 8-hour warrants).

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Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Alternative)
Background PM

Intersection #7: Turner St/Highland Oaks Dr & Lark Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module:												
Base Vol:	0	0	15	0	0	41	32	1782	10	0	1323	15
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	15	0	0	41	32	1782	10	0	1323	15
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	15	0	0	41	32	1782	10	0	1323	15
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	15	0	0	41	32	1782	10	0	1323	15
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	0	15	0	0	41	32	1782	10	0	1323	15
Critical Gap Module:												
Critical Gp:	xxxxx	xxxx	6.9	xxxxx	xxxx	6.9	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx
FollowUpTim:	xxxxx	xxxx	3.3	xxxxx	xxxx	3.3	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	xxxx	xxxx	599	xxxx	xxxx	441	1338	xxxx	xxxxx	xxxx	xxxx	xxxxx
Potent Cap.:	xxxx	xxxx	450	xxxx	xxxx	570	522	xxxx	xxxxx	xxxx	xxxx	xxxxx
Move Cap.:	xxxx	xxxx	450	xxxx	xxxx	570	522	xxxx	xxxxx	xxxx	xxxx	xxxxx
Volume/Cap:	xxxx	xxxx	0.03	xxxx	xxxx	0.07	0.06	xxxx	xxxx	xxxx	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	0.1	xxxx	xxxx	0.2	0.2	xxxx	xxxxx	xxxx	xxxx	xxxxx
Control Del:	xxxxx	xxxx	13.3	xxxxx	xxxx	11.8	12.3	xxxx	xxxxx	xxxxx	xxxx	xxxxx
LOS by Move:	*	*	B	*	*	B	B	*	*	*	*	*
Movement:	LT - LTR - RT			LT - LTR - RT			LT - LTR - RT			LT - LTR - RT		
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*
ApproachDel:	13.3			11.8			xxxxxx			xxxxxx		
ApproachLOS:	B			B			*			*		

Note: Queue reported is the number of cars per lane.

Peak Hour Delay Signal Warrant Report

****

Intersection #7 Turner St/Highland Oaks Dr & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0	0 0	1	0 0	0 0	1	1 0	2 1	0	0 0	3 0	1
Initial Vol:	0	0	15	0	0	41	32	1782	10	0	1323	15
ApproachDel:	13.3			11.8			xxxxxx			xxxxxx		

Approach[northbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=15]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=3218]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[southbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=41]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=3218]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER
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Peak Hour Volume Signal Warrant Report [Urban]

****

Intersection #7 Turner St/Highland Oaks Dr & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0	0 0	1	0 0	0 0	1	1 0	2 1	0	0 0	3 0	1
Initial Vol:	0	0	15	0	0	41	32	1782	10	0	1323	15

Major Street Volume: 3162
Minor Approach Volume: 41
Minor Approach Volume Threshold: -112 [less than minimum of 100]

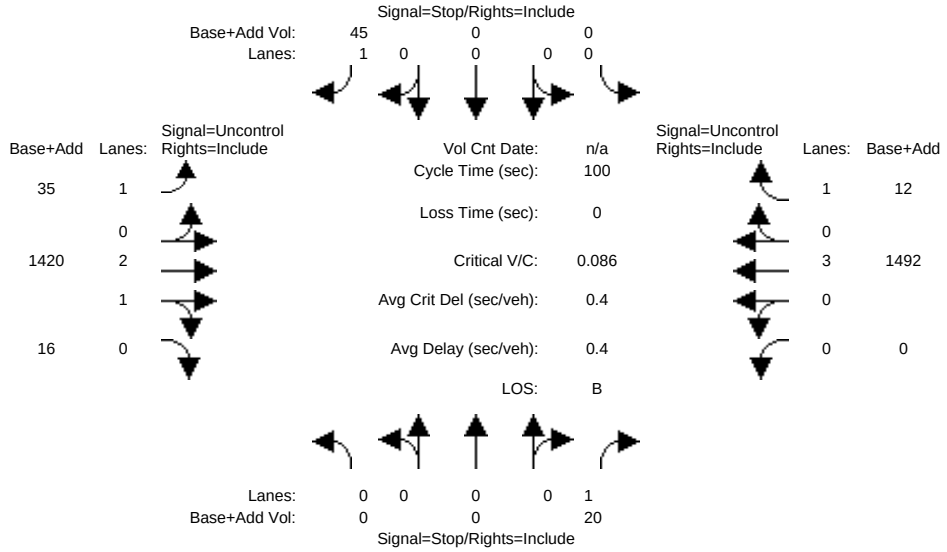
SIGNAL WARRANT DISCLAIMER
This peak hour signal warrant analysis should be considered solely as an "indicator" of the likelihood of an unsignalized intersection warranting a traffic signal in the future. Intersections that exceed this warrant are probably more likely to meet one or more of the other volume based signal warrant (such as the 4-hour or 8-hour warrants).

The peak hour warrant analysis in this report is not intended to replace a rigorous and complete traffic signal warrant analysis by the responsible jurisdiction. Consideration of the other signal warrants, which is beyond the scope of this software, may yield different results.

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Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Alternative)
Background AM+P

Intersection #7: Turner St/Highland Oaks Dr & Lark Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module:												
Base Vol:	0	0	20	0	0	45	35	1400	16	0	1485	12
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	20	0	0	45	35	1400	16	0	1485	12
Added Vol:	0	0	0	0	0	0	0	20	0	0	7	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	20	0	0	45	35	1420	16	0	1492	12
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	20	0	0	45	35	1420	16	0	1492	12
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	0	20	0	0	45	35	1420	16	0	1492	12
Critical Gap Module:												
Critical Gp:	xxxxx	xxxx	6.9	xxxxx	xxxx	6.9	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx
FollowUpTim:	xxxxx	xxxx	3.3	xxxxx	xxxx	3.3	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	xxxx	xxxx	481	xxxx	xxxx	497	1504	xxxx	xxxxx	xxxx	xxxx	xxxxx
Potent Cap.:	xxxx	xxxx	536	xxxx	xxxx	524	451	xxxx	xxxxx	xxxx	xxxx	xxxxx
Move Cap.:	xxxx	xxxx	536	xxxx	xxxx	524	451	xxxx	xxxxx	xxxx	xxxx	xxxxx
Volume/Cap:	xxxx	xxxx	0.04	xxxx	xxxx	0.09	0.08	xxxx	xxxx	xxxx	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	0.1	xxxx	xxxx	0.3	0.3	xxxx	xxxxx	xxxx	xxxx	xxxxx
Control Del:	xxxxx	xxxx	12.0	xxxxx	xxxx	12.5	13.6	xxxx	xxxxx	xxxxx	xxxx	xxxxx
LOS by Move:	*	*	B	*	*	B	B	*	*	*	*	*
Movement:	LT - LTR - RT			LT - LTR - RT			LT - LTR - RT			LT - LTR - RT		
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*
ApproachDel:	12.0			12.5			xxxxxx			xxxxxx		
ApproachLOS:	B			B			*			*		

Note: Queue reported is the number of cars per lane.

Peak Hour Delay Signal Warrant Report

****

Intersection #7 Turner St/Highland Oaks Dr & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 0	0	1	0 0 0	0	1	1 0 2	1	0	0 0 3	0	1
Initial Vol:	0	0	20	0	0	45	35	1420	16	0	1492	12
ApproachDel:	12.0			12.5			xxxxxx			xxxxxx		

Approach[northbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=20]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=3040]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[southbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.2]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=45]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=3040]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER
This peak hour signal warrant analysis should be considered solely as an "indicator" of the likelihood of an unsignalized intersection warranting a traffic signal in the future. Intersections that exceed this warrant are probably more likely to meet one or more of the other volume based signal warrant (such as the 4-hour or 8-hour warrants).

The peak hour warrant analysis in this report is not intended to replace a rigorous and complete traffic signal warrant analysis by the responsible jurisdiction. Consideration of the other signal warrants, which is beyond the scope of this software, may yield different results.

Peak Hour Volume Signal Warrant Report [Urban]

****

Intersection #7 Turner St/Highland Oaks Dr & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 0	0	1	0 0 0	0	1	1 0 2	1	0	0 0 3	0	1
Initial Vol:	0	0	20	0	0	45	35	1420	16	0	1492	12

Major Street Volume: 2975
Minor Approach Volume: 45
Minor Approach Volume Threshold: -91 [less than minimum of 100]

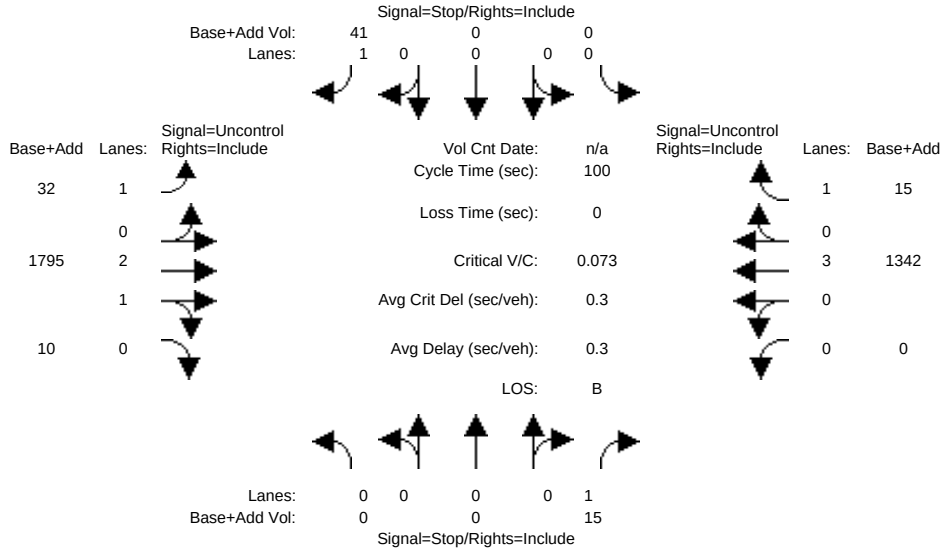
SIGNAL WARRANT DISCLAIMER
This peak hour signal warrant analysis should be considered solely as an "indicator" of the likelihood of an unsignalized intersection warranting a traffic signal in the future. Intersections that exceed this warrant are probably more likely to meet one or more of the other volume based signal warrant (such as the 4-hour or 8-hour warrants).

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Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Alternative)
Background PM +P

Intersection #7: Turner St/Highland Oaks Dr & Lark Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module:												
Base Vol:	0	0	15	0	0	41	32	1782	10	0	1323	15
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	15	0	0	41	32	1782	10	0	1323	15
Added Vol:	0	0	0	0	0	0	0	13	0	0	19	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	15	0	0	41	32	1795	10	0	1342	15
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	15	0	0	41	32	1795	10	0	1342	15
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	0	15	0	0	41	32	1795	10	0	1342	15
Critical Gap Module:												
Critical Gp:	xxxxx	xxxx	6.9	xxxxx	xxxx	6.9	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx
FollowUpTim:	xxxxx	xxxx	3.3	xxxxx	xxxx	3.3	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	xxxx	xxxx	603	xxxx	xxxx	447	1357	xxxx	xxxxx	xxxx	xxxx	xxxxx
Potent Cap.:	xxxx	xxxx	447	xxxx	xxxx	564	513	xxxx	xxxxx	xxxx	xxxx	xxxxx
Move Cap.:	xxxx	xxxx	447	xxxx	xxxx	564	513	xxxx	xxxxx	xxxx	xxxx	xxxxx
Volume/Cap:	xxxx	xxxx	0.03	xxxx	xxxx	0.07	0.06	xxxx	xxxx	xxxx	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	0.1	xxxx	xxxx	0.2	0.2	xxxx	xxxxx	xxxx	xxxx	xxxxx
Control Del:	xxxxx	xxxx	13.3	xxxxx	xxxx	11.9	12.5	xxxx	xxxxx	xxxxx	xxxx	xxxxx
LOS by Move:	*	*	B	*	*	B	B	*	*	*	*	*
Movement:	LT - LTR - RT			LT - LTR - RT			LT - LTR - RT			LT - LTR - RT		
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*
ApproachDel:	13.3			11.9			xxxxxx			xxxxxx		
ApproachLOS:	B			B			*			*		

Note: Queue reported is the number of cars per lane.

Peak Hour Delay Signal Warrant Report

****

Intersection #7 Turner St/Highland Oaks Dr & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 0	0	1	0 0 0	0	1	1 0 2	1	0	0 0 3	0	1
Initial Vol:	0	0	15	0	0	41	32	1795	10	0	1342	15
ApproachDel:	13.3			11.9			xxxxxx			xxxxxx		

Approach[northbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=15]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=3250]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[southbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=41]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=3250]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER
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Peak Hour Volume Signal Warrant Report [Urban]

****

Intersection #7 Turner St/Highland Oaks Dr & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 0	0	1	0 0 0	0	1	1 0 2	1	0	0 0 3	0	1
Initial Vol:	0	0	15	0	0	41	32	1795	10	0	1342	15

Major Street Volume: 3194
Minor Approach Volume: 41
Minor Approach Volume Threshold: -115 [less than minimum of 100]

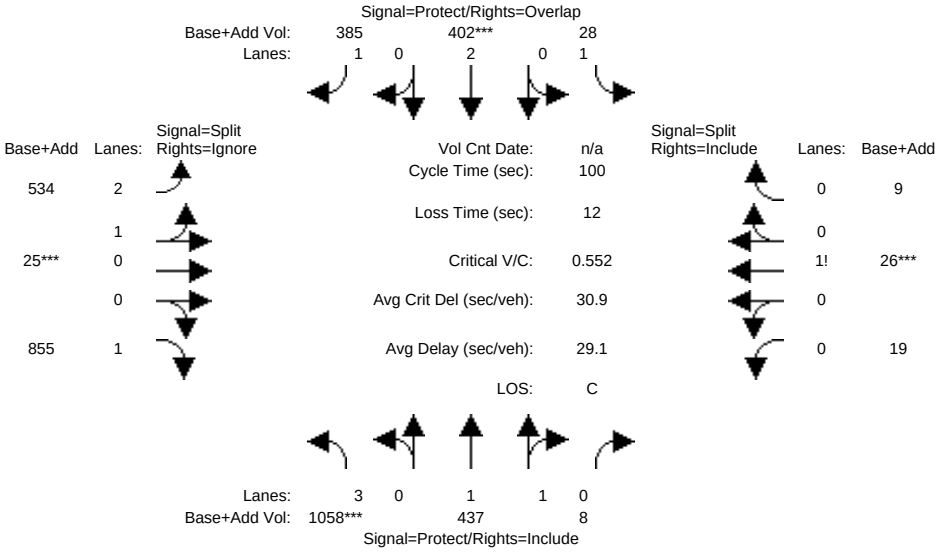
SIGNAL WARRANT DISCLAIMER
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The peak hour warrant analysis in this report is not intended to replace a rigorous and complete traffic signal warrant analysis by the responsible jurisdiction. Consideration of the other signal warrants, which is beyond the scope of this software, may yield different results.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background AM

Intersection #8: Los Gatos Blvd & Lark Ave



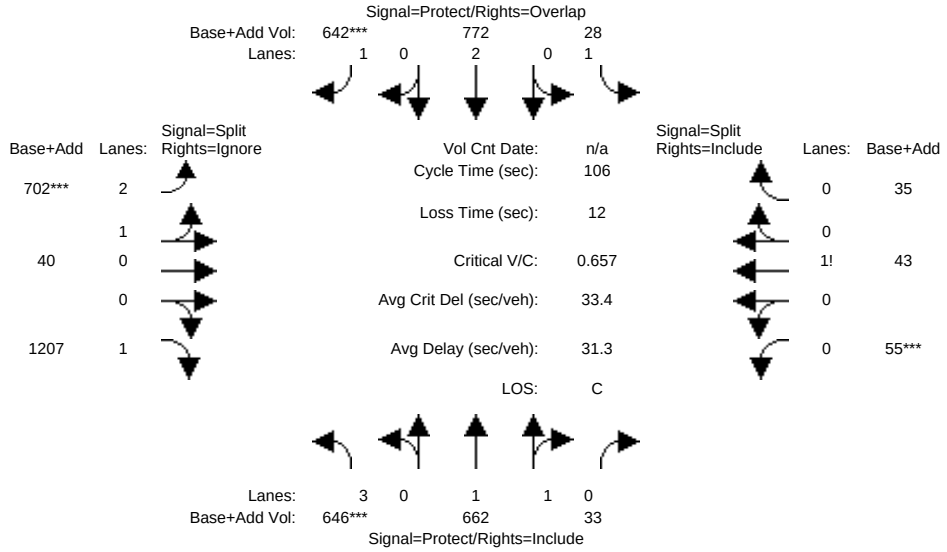
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	1058	437	8	28	402	385	534	25	855	19	26	9
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	1058	437	8	28	402	385	534	25	855	19	26	9
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	1058	437	8	28	402	385	534	25	855	19	26	9
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	1058	437	8	28	402	385	534	25	0	19	26	9
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	1058	437	8	28	402	385	534	25	0	19	26	9
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	1058	437	8	28	402	385	534	25	0	19	26	9
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.80	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92
Lanes:	3.00	1.96	0.04	1.00	2.00	1.00	2.89	0.11	1.00	0.37	0.46	0.17
Final Sat.:	4551	3726	68	1750	3800	1750	4548	213	1750	640	876	303
Capacity Analysis Module:												
Vol/Sat:	0.23	0.12	0.12	0.02	0.11	0.22	0.12	0.12	0.00	0.03	0.03	0.03
Crit Moves:	****				****			****			****	
Green/Cycle:	0.40	0.36	0.36	0.22	0.18	0.38	0.20	0.20	0.00	0.10	0.10	0.10
Volume/Cap:	0.58	0.32	0.32	0.07	0.58	0.58	0.58	0.58	0.00	0.30	0.30	0.30
Uniform Del:	23.6	23.0	23.0	31.2	37.5	24.5	36.2	36.2	0.0	41.7	41.7	41.7
IncremntDel:	0.5	0.1	0.1	0.1	1.3	1.2	0.9	0.9	0.0	0.9	0.9	0.9
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Delay/Veh:	24.1	23.1	23.1	31.3	38.8	25.7	37.1	37.1	0.0	42.7	42.7	42.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	24.1	23.1	23.1	31.3	38.8	25.7	37.1	37.1	0.0	42.7	42.7	42.7
LOS by Move:	C	C	C	C	D	C	D	D	A	D	D	D
HCM2kAvgQ:	11	5	5	1	6	11	6	6	0	2	2	2

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background PM

Intersection #8: Los Gatos Blvd & Lark Ave



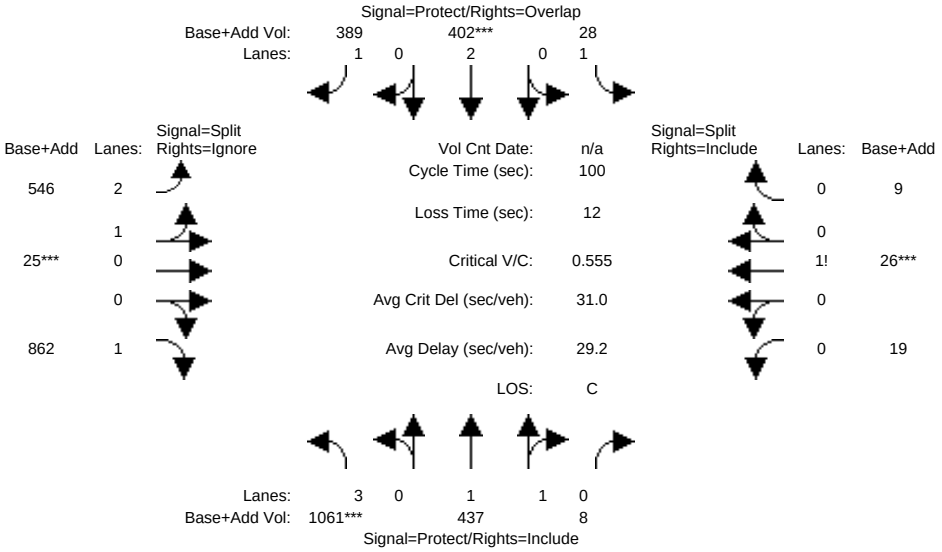
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	646	662	33	28	772	642	702	40	1207	55	43	35
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	646	662	33	28	772	642	702	40	1207	55	43	35
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	646	662	33	28	772	642	702	40	1207	55	43	35
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	646	662	33	28	772	642	702	40	0	55	43	35
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	646	662	33	28	772	642	702	40	0	55	43	35
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	646	662	33	28	772	642	702	40	0	55	43	35
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.80	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92
Lanes:	3.00	1.90	0.10	1.00	2.00	1.00	2.86	0.14	1.00	0.42	0.31	0.27
Final Sat.:	4551	3605	180	1750	3800	1750	4512	257	1750	743	581	473
Capacity Analysis Module:												
Vol/Sat:	0.14	0.18	0.18	0.02	0.20	0.37	0.16	0.16	0.00	0.07	0.07	0.07
Crit Moves:	****					****	****			****		
Green/Cycle:	0.22	0.40	0.40	0.14	0.32	0.56	0.24	0.24	0.00	0.11	0.11	0.11
Volume/Cap:	0.66	0.46	0.46	0.11	0.63	0.66	0.66	0.66	0.00	0.66	0.66	0.66
Uniform Del:	38.0	23.7	23.7	39.6	30.6	16.3	36.6	36.6	0.0	45.1	45.1	45.1
IncremntDel:	1.6	0.2	0.2	0.2	1.1	1.6	1.4	1.4	0.0	7.7	7.7	7.7
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Delay/Veh:	39.6	24.0	24.0	39.8	31.7	18.0	38.0	38.0	0.0	52.7	52.7	52.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	39.6	24.0	24.0	39.8	31.7	18.0	38.0	38.0	0.0	52.7	52.7	52.7
LOS by Move:	D	C	C	D	C	B	D	D	A	D	D	D
HCM2kAvgQ:	9	8	8	1	11	16	9	9	0	6	6	6

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background AM+P

Intersection #8: Los Gatos Blvd & Lark Ave



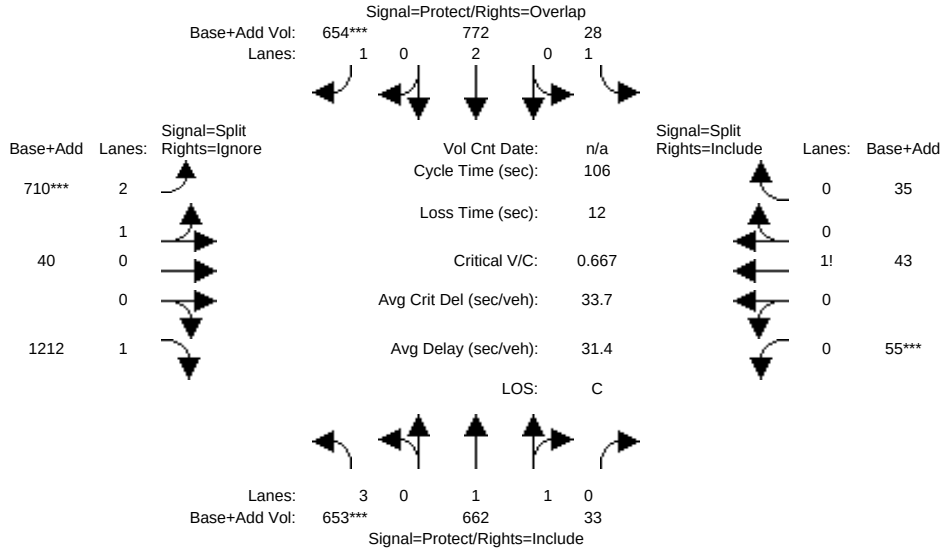
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	1058	437	8	28	402	385	534	25	855	19	26	9
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	1058	437	8	28	402	385	534	25	855	19	26	9
Added Vol:	3	0	0	0	0	4	12	0	7	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	1061	437	8	28	402	389	546	25	862	19	26	9
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	1061	437	8	28	402	389	546	25	0	19	26	9
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	1061	437	8	28	402	389	546	25	0	19	26	9
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	1061	437	8	28	402	389	546	25	0	19	26	9
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.80	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92
Lanes:	3.00	1.96	0.04	1.00	2.00	1.00	2.89	0.11	1.00	0.37	0.46	0.17
Final Sat.:	4551	3726	68	1750	3800	1750	4552	208	1750	640	876	303
Capacity Analysis Module:												
Vol/Sat:	0.23	0.12	0.12	0.02	0.11	0.22	0.12	0.12	0.00	0.03	0.03	0.03
Crit Moves:	****				****			****			****	
Green/Cycle:	0.40	0.36	0.36	0.22	0.18	0.38	0.20	0.20	0.00	0.10	0.10	0.10
Volume/Cap:	0.59	0.33	0.33	0.07	0.59	0.58	0.59	0.59	0.00	0.30	0.30	0.30
Uniform Del:	23.8	23.1	23.1	31.3	37.6	24.4	36.0	36.0	0.0	41.7	41.7	41.7
IncremntDel:	0.5	0.1	0.1	0.1	1.3	1.3	1.0	1.0	0.0	0.9	0.9	0.9
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Delay/Veh:	24.3	23.3	23.3	31.4	39.0	25.7	37.0	37.0	0.0	42.7	42.7	42.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	24.3	23.3	23.3	31.4	39.0	25.7	37.0	37.0	0.0	42.7	42.7	42.7
LOS by Move:	C	C	C	C	D	C	D	D	A	D	D	D
HCM2kAvgQ:	11	5	5	1	6	11	6	6	0	2	2	2

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Background PM +P

Intersection #8: Los Gatos Blvd & Lark Ave



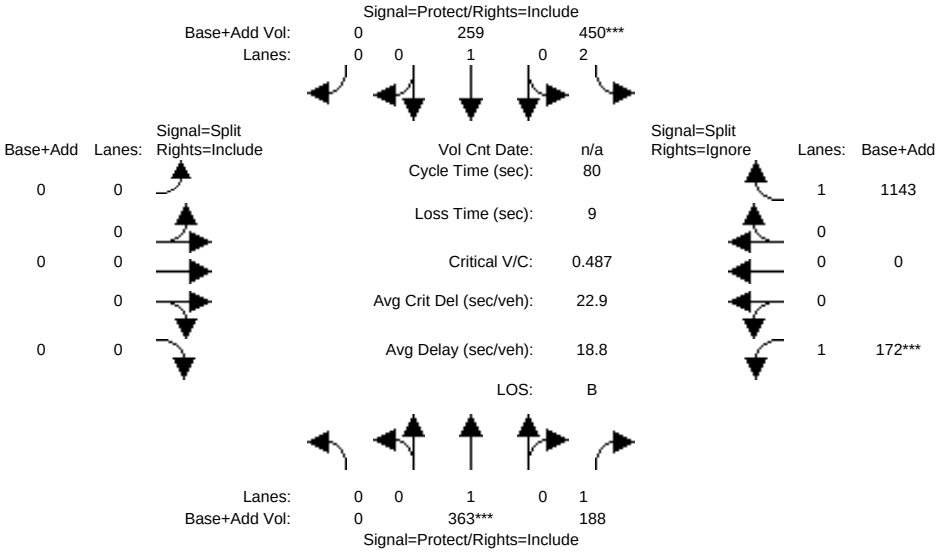
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	646	662	33	28	772	642	702	40	1207	55	43	35
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	646	662	33	28	772	642	702	40	1207	55	43	35
Added Vol:	7	0	0	0	0	12	8	0	5	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	653	662	33	28	772	654	710	40	1212	55	43	35
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	653	662	33	28	772	654	710	40	0	55	43	35
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	653	662	33	28	772	654	710	40	0	55	43	35
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	653	662	33	28	772	654	710	40	0	55	43	35
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.80	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92
Lanes:	3.00	1.90	0.10	1.00	2.00	1.00	2.87	0.13	1.00	0.42	0.31	0.27
Final Sat.:	4551	3605	180	1750	3800	1750	4514	254	1750	743	581	473
Capacity Analysis Module:												
Vol/Sat:	0.14	0.18	0.18	0.02	0.20	0.37	0.16	0.16	0.00	0.07	0.07	0.07
Crit Moves:	****					****	****			****		
Green/Cycle:	0.22	0.40	0.40	0.14	0.32	0.56	0.24	0.24	0.00	0.11	0.11	0.11
Volume/Cap:	0.67	0.46	0.46	0.11	0.63	0.67	0.67	0.67	0.00	0.67	0.67	0.67
Uniform Del:	38.1	23.6	23.6	39.6	30.3	16.3	36.7	36.7	0.0	45.2	45.2	45.2
IncremntDel:	1.8	0.2	0.2	0.2	1.0	1.8	1.5	1.5	0.0	8.3	8.3	8.3
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Delay/Veh:	39.9	23.8	23.8	39.8	31.4	18.1	38.3	38.3	0.0	53.6	53.6	53.6
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	39.9	23.8	23.8	39.8	31.4	18.1	38.3	38.3	0.0	53.6	53.6	53.6
LOS by Move:	D	C	C	D	C	B	D	D	A	D	D	D
HCM2kAvgQ:	9	8	8	1	11	17	9	9	0	6	6	6

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative AM

Intersection #1: Winchester Blvd & Lark Ave



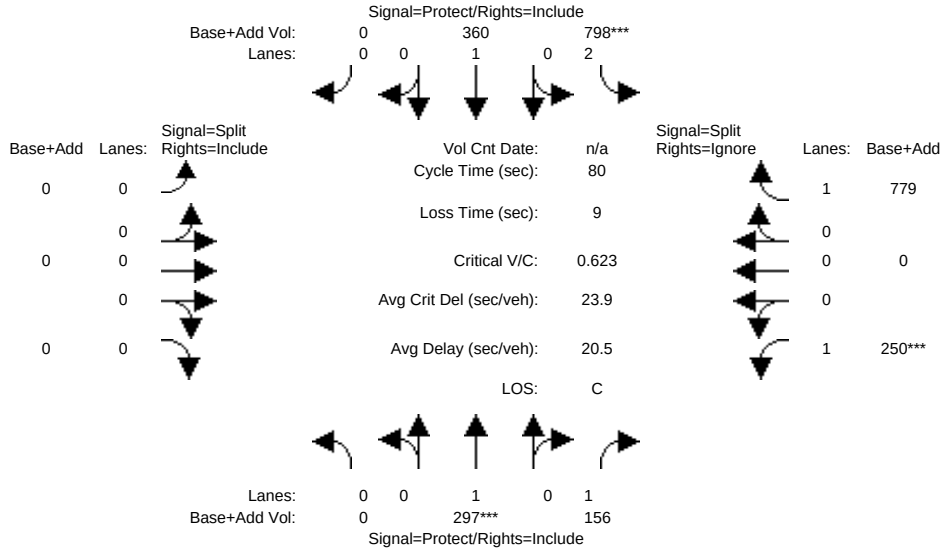
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	363	188	450	259	0	0	0	0	172	0	1143
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	363	188	450	259	0	0	0	0	172	0	1143
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	363	188	450	259	0	0	0	0	172	0	1143
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	363	188	450	259	0	0	0	0	172	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	363	188	450	259	0	0	0	0	172	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
FinalVolume:	0	363	188	450	259	0	0	0	0	172	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	1.00	1.00	2.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	1900	1750	3150	1900	0	0	0	0	1750	0	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.19	0.11	0.14	0.14	0.00	0.00	0.00	0.00	0.10	0.00	0.00
Crit Moves:		****		****						****		
Green/Cycle:	0.00	0.39	0.39	0.29	0.69	0.00	0.00	0.00	0.00	0.20	0.00	0.00
Volume/Cap:	0.00	0.49	0.27	0.49	0.20	0.00	0.00	0.00	0.00	0.49	0.00	0.00
Uniform Del:	0.0	18.3	16.5	23.3	4.6	0.0	0.0	0.0	0.0	28.3	0.0	0.0
IncremntDel:	0.0	0.5	0.2	0.4	0.1	0.0	0.0	0.0	0.0	1.1	0.0	0.0
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	0.00	1.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
Delay/Veh:	0.0	18.8	16.8	23.7	4.7	0.0	0.0	0.0	0.0	29.3	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	18.8	16.8	23.7	4.7	0.0	0.0	0.0	0.0	29.3	0.0	0.0
LOS by Move:	A	B	B	C	A	A	A	A	A	C	A	A
HCM2kAvgQ:	0	7	3	6	2	0	0	0	0	4	0	0

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative PM

Intersection #1: Winchester Blvd & Lark Ave



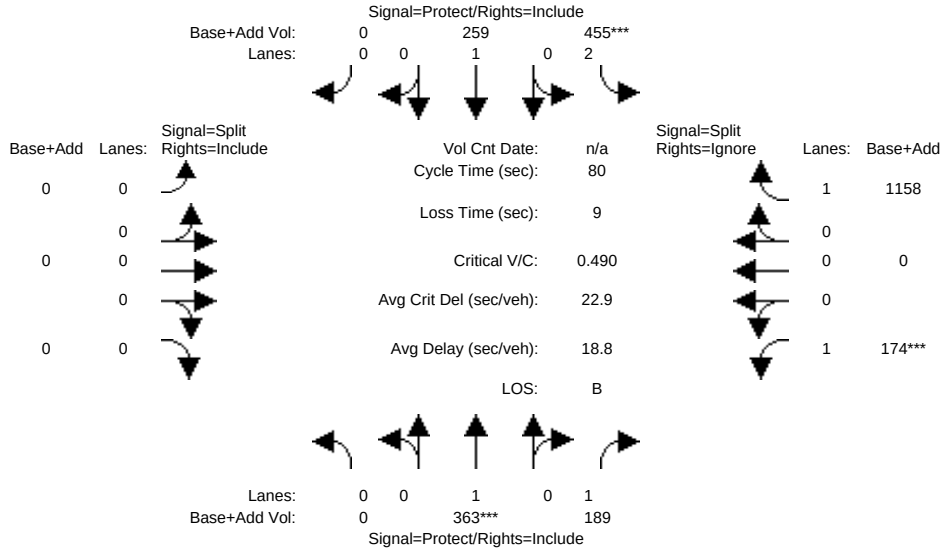
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	297	156	798	360	0	0	0	0	250	0	779
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	297	156	798	360	0	0	0	0	250	0	779
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	297	156	798	360	0	0	0	0	250	0	779
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	297	156	798	360	0	0	0	0	250	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	297	156	798	360	0	0	0	0	250	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
FinalVolume:	0	297	156	798	360	0	0	0	0	250	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	1.00	1.00	2.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	1900	1750	3150	1900	0	0	0	0	1750	0	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.16	0.09	0.25	0.19	0.00	0.00	0.00	0.00	0.14	0.00	0.00
Crit Moves:		****		****						****		
Green/Cycle:	0.00	0.25	0.25	0.41	0.66	0.00	0.00	0.00	0.00	0.23	0.00	0.00
Volume/Cap:	0.00	0.62	0.36	0.62	0.29	0.00	0.00	0.00	0.00	0.62	0.00	0.00
Uniform Del:	0.0	26.6	24.6	18.8	5.8	0.0	0.0	0.0	0.0	27.7	0.0	0.0
IncremntDel:	0.0	2.6	0.5	1.0	0.1	0.0	0.0	0.0	0.0	3.0	0.0	0.0
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	0.00	1.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
Delay/Veh:	0.0	29.1	25.1	19.8	5.9	0.0	0.0	0.0	0.0	30.7	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	29.1	25.1	19.8	5.9	0.0	0.0	0.0	0.0	30.7	0.0	0.0
LOS by Move:	A	C	C	B	A	A	A	A	A	C	A	A
HCM2kAvgQ:	0	7	4	10	4	0	0	0	0	6	0	0

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative AM +P

Intersection #1: Winchester Blvd & Lark Ave



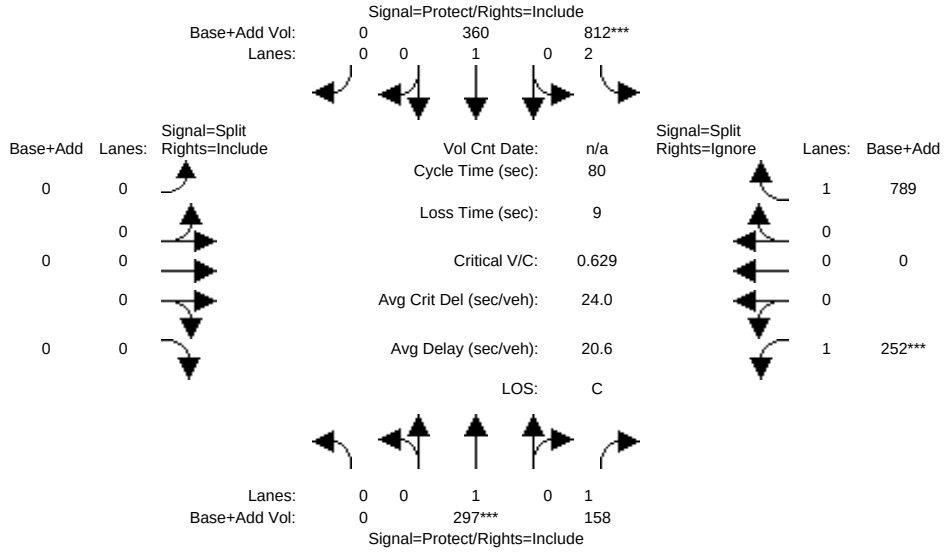
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	363	188	450	259	0	0	0	0	172	0	1143
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	363	188	450	259	0	0	0	0	172	0	1143
Added Vol:	0	0	1	5	0	0	0	0	0	2	0	15
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	363	189	455	259	0	0	0	0	174	0	1158
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	363	189	455	259	0	0	0	0	174	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	363	189	455	259	0	0	0	0	174	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
FinalVolume:	0	363	189	455	259	0	0	0	0	174	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	1.00	1.00	2.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	1900	1750	3150	1900	0	0	0	0	1750	0	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.19	0.11	0.14	0.14	0.00	0.00	0.00	0.00	0.10	0.00	0.00
Crit Moves:		****		****						****		
Green/Cycle:	0.00	0.39	0.39	0.29	0.68	0.00	0.00	0.00	0.00	0.20	0.00	0.00
Volume/Cap:	0.00	0.49	0.28	0.49	0.20	0.00	0.00	0.00	0.00	0.49	0.00	0.00
Uniform Del:	0.0	18.4	16.7	23.3	4.6	0.0	0.0	0.0	0.0	28.2	0.0	0.0
IncremntDel:	0.0	0.5	0.2	0.4	0.1	0.0	0.0	0.0	0.0	1.1	0.0	0.0
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	0.00	1.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
Delay/Veh:	0.0	18.9	16.9	23.7	4.7	0.0	0.0	0.0	0.0	29.3	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	18.9	16.9	23.7	4.7	0.0	0.0	0.0	0.0	29.3	0.0	0.0
LOS by Move:	A	B	B	C	A	A	A	A	A	C	A	A
HCM2kAvgQ:	0	7	4	6	2	0	0	0	0	4	0	0

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative PM +P

Intersection #1: Winchester Blvd & Lark Ave



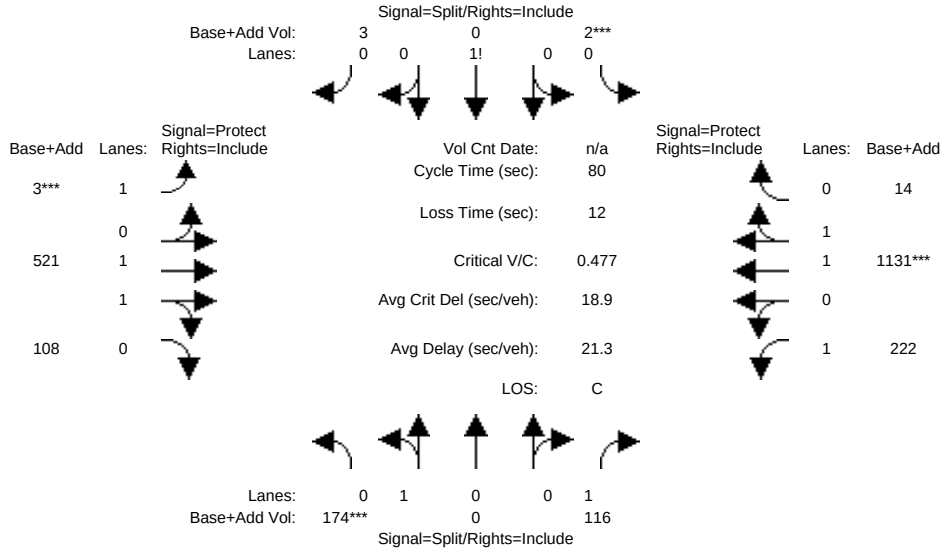
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	297	156	798	360	0	0	0	0	250	0	779
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	297	156	798	360	0	0	0	0	250	0	779
Added Vol:	0	0	2	14	0	0	0	0	0	2	0	10
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	297	158	812	360	0	0	0	0	252	0	789
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	297	158	812	360	0	0	0	0	252	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	297	158	812	360	0	0	0	0	252	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
FinalVolume:	0	297	158	812	360	0	0	0	0	252	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	1.00	1.00	2.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	1900	1750	3150	1900	0	0	0	0	1750	0	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.16	0.09	0.26	0.19	0.00	0.00	0.00	0.00	0.14	0.00	0.00
Crit Moves:		****		****						****		
Green/Cycle:	0.00	0.25	0.25	0.41	0.66	0.00	0.00	0.00	0.00	0.23	0.00	0.00
Volume/Cap:	0.00	0.63	0.36	0.63	0.29	0.00	0.00	0.00	0.00	0.63	0.00	0.00
Uniform Del:	0.0	26.8	24.8	18.8	5.8	0.0	0.0	0.0	0.0	27.8	0.0	0.0
IncremntDel:	0.0	2.7	0.5	1.0	0.1	0.0	0.0	0.0	0.0	3.2	0.0	0.0
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	0.00	1.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
Delay/Veh:	0.0	29.5	25.3	19.8	5.9	0.0	0.0	0.0	0.0	31.0	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	29.5	25.3	19.8	5.9	0.0	0.0	0.0	0.0	31.0	0.0	0.0
LOS by Move:	A	C	C	B	A	A	A	A	A	C	A	A
HCM2kAvgQ:	0	7	4	10	4	0	0	0	0	6	0	0

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative AM

Intersection #2: University Ave & Lark Ave



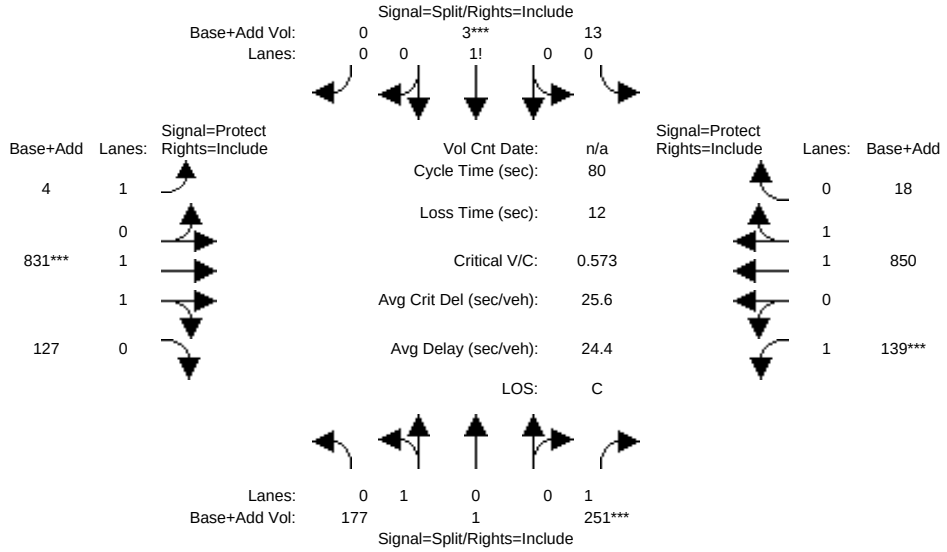
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Min. Green:	10	10	10	10	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	174	0	116	2	0	3	3	521	108	222	1131	14
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	174	0	116	2	0	3	3	521	108	222	1131	14
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	174	0	116	2	0	3	3	521	108	222	1131	14
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	174	0	116	2	0	3	3	521	108	222	1131	14
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	174	0	116	2	0	3	3	521	108	222	1131	14
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	174	0	116	2	0	3	3	521	108	222	1131	14
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	1.00	0.00	1.00	0.40	0.00	0.60	1.00	1.63	0.37	1.00	1.97	0.03
Final Sat.:	1750	0	1750	700	0	1050	1750	3102	643	1750	3750	46
Capacity Analysis Module:												
Vol/Sat:	0.10	0.00	0.07	0.00	0.00	0.00	0.00	0.17	0.17	0.13	0.30	0.30
Crit Moves:	****			****			****				****	
Green/Cycle:	0.16	0.00	0.16	0.13	0.00	0.13	0.09	0.32	0.32	0.24	0.48	0.48
Volume/Cap:	0.63	0.00	0.42	0.02	0.00	0.02	0.02	0.52	0.52	0.52	0.63	0.63
Uniform Del:	31.5	0.0	30.4	30.7	0.0	30.7	33.4	22.0	22.0	26.2	15.5	15.5
IncremntDel:	4.6	0.0	1.0	0.0	0.0	0.0	0.1	0.4	0.4	1.1	0.7	0.7
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	36.1	0.0	31.4	30.8	0.0	30.8	33.4	22.4	22.4	27.3	16.2	16.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	36.1	0.0	31.4	30.8	0.0	30.8	33.4	22.4	22.4	27.3	16.2	16.2
LOS by Move:	D	A	C	C	A	C	C	C	C	C	B	B
HCM2kAvgQ:	5	0	3	0	0	0	0	6	6	5	10	10

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative PM

Intersection #2: University Ave & Lark Ave



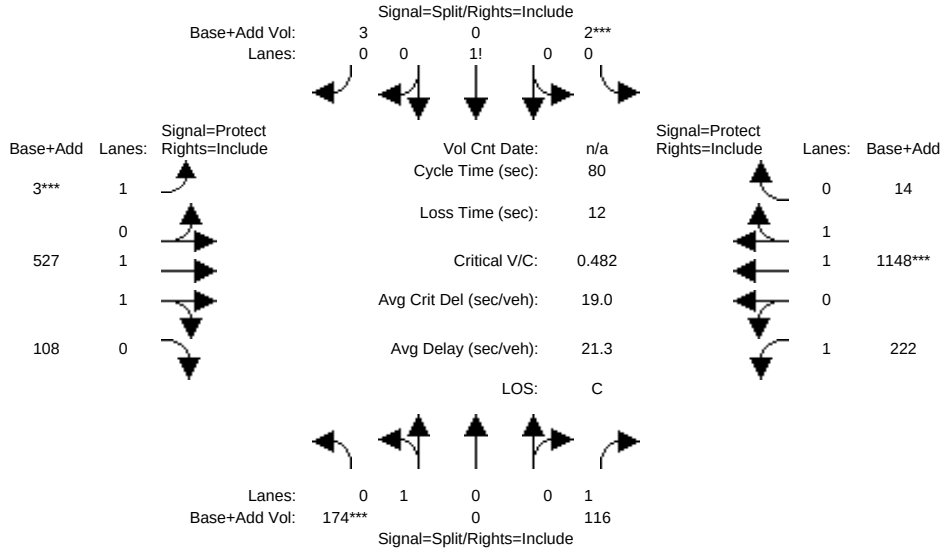
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	177	1	251	13	3	0	4	831	127	139	850	18
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	177	1	251	13	3	0	4	831	127	139	850	18
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	177	1	251	13	3	0	4	831	127	139	850	18
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	177	1	251	13	3	0	4	831	127	139	850	18
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	177	1	251	13	3	0	4	831	127	139	850	18
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	177	1	251	13	3	0	4	831	127	139	850	18
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.99	0.01	1.00	0.82	0.18	0.00	1.00	1.72	0.28	1.00	1.96	0.04
Final Sat.:	1741	10	1750	1443	333	0	1750	3259	498	1750	3715	79
Capacity Analysis Module:												
Vol/Sat:	0.10	0.10	0.14	0.01	0.01	0.00	0.00	0.25	0.25	0.08	0.23	0.23
Crit Moves:			****		****			****		****		
Green/Cycle:	0.22	0.22	0.22	0.13	0.13	0.00	0.14	0.39	0.39	0.12	0.37	0.37
Volume/Cap:	0.47	0.47	0.66	0.07	0.07	0.00	0.02	0.66	0.66	0.66	0.62	0.62
Uniform Del:	27.3	27.3	28.6	30.9	30.9	0.0	29.6	20.2	20.2	33.6	20.8	20.8
IncremntDel:	0.9	0.9	4.2	0.1	0.1	0.0	0.0	1.1	1.1	7.5	0.9	0.9
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	28.2	28.2	32.8	31.0	31.0	0.0	29.7	21.3	21.3	41.1	21.7	21.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	28.2	28.2	32.8	31.0	31.0	0.0	29.7	21.3	21.3	41.1	21.7	21.7
LOS by Move:	C	C	C	C	C	A	C	C	C	D	C	C
HCM2kAvgQ:	5	5	7	0	0	0	0	10	10	4	9	9

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative AM +P

Intersection #2: University Ave & Lark Ave



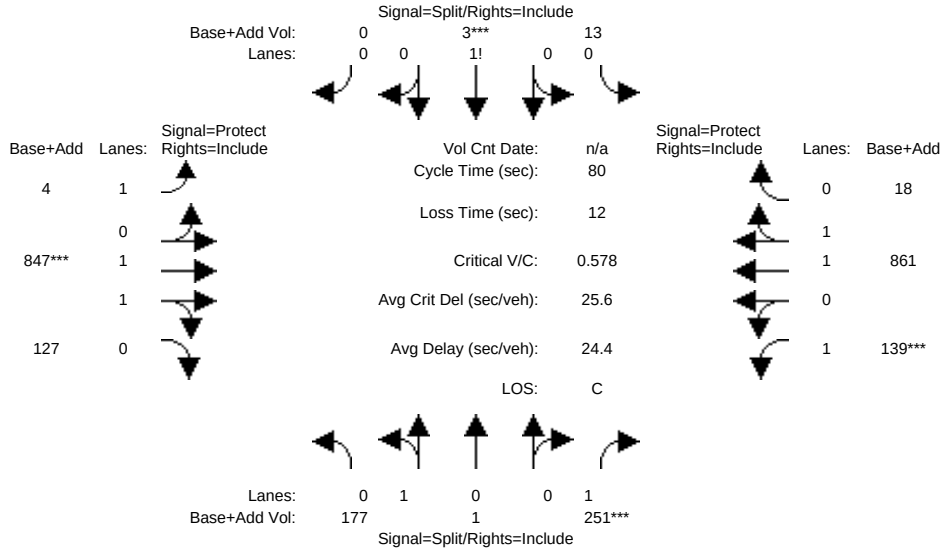
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	174	0	116	2	0	3	3	521	108	222	1131	14
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	174	0	116	2	0	3	3	521	108	222	1131	14
Added Vol:	0	0	0	0	0	0	0	6	0	0	17	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	174	0	116	2	0	3	3	527	108	222	1148	14
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	174	0	116	2	0	3	3	527	108	222	1148	14
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	174	0	116	2	0	3	3	527	108	222	1148	14
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	174	0	116	2	0	3	3	527	108	222	1148	14
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	1.00	0.00	1.00	0.40	0.00	0.60	1.00	1.64	0.36	1.00	1.97	0.03
Final Sat.:	1750	0	1750	700	0	1050	1750	3108	637	1750	3750	46
Capacity Analysis Module:												
Vol/Sat:	0.10	0.00	0.07	0.00	0.00	0.00	0.00	0.17	0.17	0.13	0.31	0.31
Crit Moves:	****			****			****				****	
Green/Cycle:	0.16	0.00	0.16	0.13	0.00	0.13	0.09	0.33	0.33	0.24	0.48	0.48
Volume/Cap:	0.64	0.00	0.42	0.02	0.00	0.02	0.02	0.52	0.52	0.52	0.64	0.64
Uniform Del:	31.6	0.0	30.5	30.7	0.0	30.7	33.4	21.9	21.9	26.2	15.5	15.5
IncremntDel:	4.9	0.0	1.1	0.0	0.0	0.0	0.1	0.4	0.4	1.2	0.8	0.8
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	36.5	0.0	31.6	30.8	0.0	30.8	33.4	22.3	22.3	27.4	16.3	16.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	36.5	0.0	31.6	30.8	0.0	30.8	33.4	22.3	22.3	27.4	16.3	16.3
LOS by Move:	D	A	C	C	A	C	C	C	C	C	B	B
HCM2kAvgQ:	5	0	3	0	0	0	0	6	6	5	11	11

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative PM +P

Intersection #2: University Ave & Lark Ave



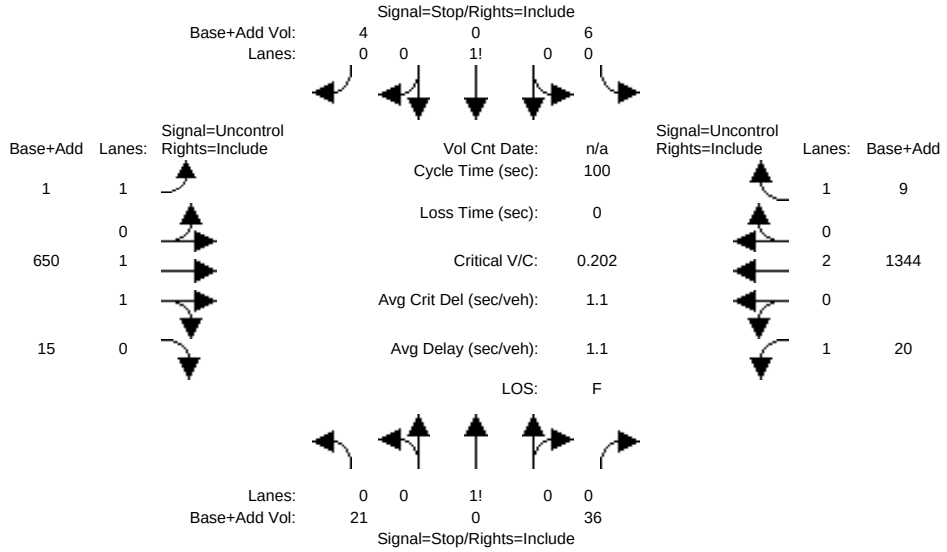
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	177	1	251	13	3	0	4	831	127	139	850	18
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	177	1	251	13	3	0	4	831	127	139	850	18
Added Vol:	0	0	0	0	0	0	0	16	0	0	11	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	177	1	251	13	3	0	4	847	127	139	861	18
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	177	1	251	13	3	0	4	847	127	139	861	18
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	177	1	251	13	3	0	4	847	127	139	861	18
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	177	1	251	13	3	0	4	847	127	139	861	18
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.99	0.01	1.00	0.82	0.18	0.00	1.00	1.72	0.28	1.00	1.96	0.04
Final Sat.:	1741	10	1750	1443	333	0	1750	3268	490	1750	3716	78
Capacity Analysis Module:												
Vol/Sat:	0.10	0.10	0.14	0.01	0.01	0.00	0.00	0.26	0.26	0.08	0.23	0.23
Crit Moves:			****		****			****		****		
Green/Cycle:	0.22	0.22	0.22	0.13	0.13	0.00	0.14	0.39	0.39	0.12	0.37	0.37
Volume/Cap:	0.47	0.47	0.66	0.07	0.07	0.00	0.02	0.66	0.66	0.66	0.63	0.63
Uniform Del:	27.4	27.4	28.7	30.9	30.9	0.0	29.7	20.1	20.1	33.7	20.7	20.7
IncremntDel:	0.9	0.9	4.4	0.1	0.1	0.0	0.0	1.2	1.2	7.9	0.9	0.9
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	28.3	28.3	33.2	31.0	31.0	0.0	29.7	21.3	21.3	41.5	21.6	21.6
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	28.3	28.3	33.2	31.0	31.0	0.0	29.7	21.3	21.3	41.5	21.6	21.6
LOS by Move:	C	C	C	C	C	A	C	C	C	D	C	C
HCM2kAvgQ:	5	5	7	0	0	0	0	10	10	4	9	9

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Alternative)
Cumulative AM

Intersection #3: Mill Rd/Arroyo Grande Way & Lark Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module:												
Base Vol:	21	0	36	6	0	4	1	650	15	20	1344	9
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	21	0	36	6	0	4	1	650	15	20	1344	9
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	21	0	36	6	0	4	1	650	15	20	1344	9
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	21	0	36	6	0	4	1	650	15	20	1344	9
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	21	0	36	6	0	4	1	650	15	20	1344	9
Critical Gap Module:												
Critical Gp:	7.5	6.5	6.9	7.5	6.5	6.9	4.1	xxxx	xxxxx	4.1	xxxx	xxxxx
FollowUpTim:	3.5	4.0	3.3	3.5	4.0	3.3	2.2	xxxx	xxxxx	2.2	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	1372	2053	333	1711	2051	672	1353	xxxx	xxxxx	665	xxxx	xxxxx
Potent Cap.:	107	56	669	60	56	403	515	xxxx	xxxxx	934	xxxx	xxxxx
Move Cap.:	104	55	669	56	55	403	515	xxxx	xxxxx	934	xxxx	xxxxx
Volume/Cap:	0.20	0.00	0.05	0.11	0.00	0.01	0.00	xxxx	xxxx	0.02	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.0	xxxx	xxxxx	0.1	xxxx	xxxxx
Control Del:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	12.0	xxxx	xxxxx	8.9	xxxx	xxxxx
LOS by Move:	*	*	*	*	*	*	B	*	*	A	*	*
Movement:	LT -	LTR -	RT	LT -	LTR -	RT	LT -	LTR -	RT	LT -	LTR -	RT
Shared Cap.:	xxxx	223	xxxxx	xxxx	85	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	1.0	xxxxx	xxxxx	0.4	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	26.6	xxxxx	xxxxx	53.1	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	D	*	*	F	*	*	*	*	*	*	*
ApproachDel:		26.6			53.1		xxxxxx			xxxxxx		
ApproachLOS:		D			F		*			*		

Note: Queue reported is the number of cars per lane.

Peak Hour Delay Signal Warrant Report

****

Intersection #3 Mill Rd/Arroyo Grande Way & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 1!	0	0	0 0 1!	0	0	1 0	1	1 0	1 0	2	0 1
Initial Vol:	21	0	36	6	0	4	1	650	15	20	1344	9
ApproachDel:	26.6			53.1			xxxxxx			xxxxxx		

Approach[northbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.4]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=57]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=2106]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[southbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=10]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=2106]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER
This peak hour signal warrant analysis should be considered solely as an "indicator" of the likelihood of an unsignalized intersection warranting a traffic signal in the future. Intersections that exceed this warrant are probably more likely to meet one or more of the other volume based signal warrant (such as the 4-hour or 8-hour warrants).

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Peak Hour Volume Signal Warrant Report [Urban]

****

Intersection #3 Mill Rd/Arroyo Grande Way & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 1!	0	0	0 0 1!	0	0	1 0	1	1 0	1 0	2	0 1
Initial Vol:	21	0	36	6	0	4	1	650	15	20	1344	9

Major Street Volume: 2039
Minor Approach Volume: 57
Minor Approach Volume Threshold: 39 [less than minimum of 100]

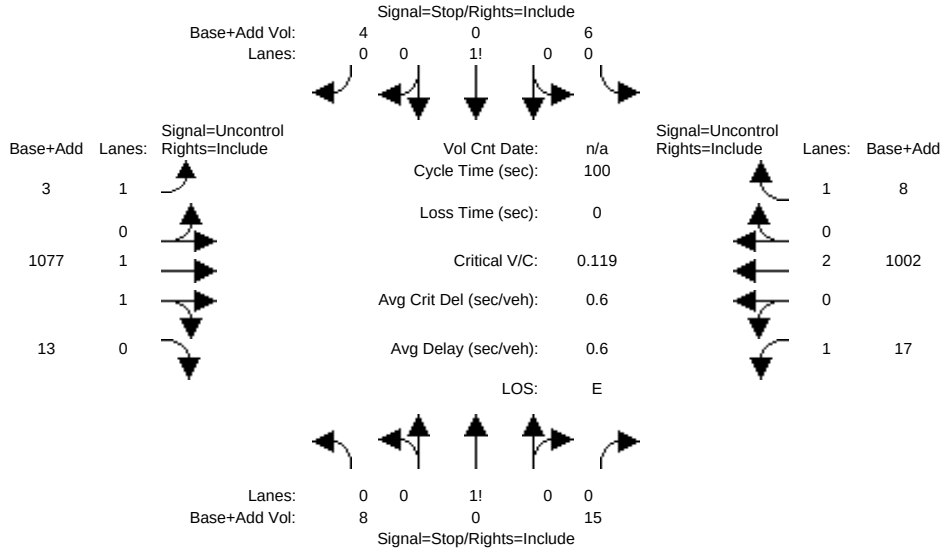
SIGNAL WARRANT DISCLAIMER
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Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Alternative)
Cumulative PM

Intersection #3: Mill Rd/Arroyo Grande Way & Lark Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module:												
Base Vol:	8	0	15	6	0	4	3	1077	13	17	1002	8
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	8	0	15	6	0	4	3	1077	13	17	1002	8
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	8	0	15	6	0	4	3	1077	13	17	1002	8
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	8	0	15	6	0	4	3	1077	13	17	1002	8
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	8	0	15	6	0	4	3	1077	13	17	1002	8
Critical Gap Module:												
Critical Gp:	7.5	6.5	6.9	7.5	6.5	6.9	4.1	xxxx	xxxxx	4.1	xxxx	xxxxx
FollowUpTim:	3.5	4.0	3.3	3.5	4.0	3.3	2.2	xxxx	xxxxx	2.2	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	1625	2134	545	1581	2132	501	1010	xxxx	xxxxx	1090	xxxx	xxxxx
Potent Cap.:	69	50	488	75	50	521	694	xxxx	xxxxx	648	xxxx	xxxxx
Move Cap.:	67	48	488	71	49	521	694	xxxx	xxxxx	648	xxxx	xxxxx
Volume/Cap:	0.12	0.00	0.03	0.08	0.00	0.01	0.00	xxxx	xxxx	0.03	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.0	xxxx	xxxxx	0.1	xxxx	xxxxx
Control Del:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	10.2	xxxx	xxxxx	10.7	xxxx	xxxxx
LOS by Move:	*	*	*	*	*	*	B	*	*	B	*	*
Movement:	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT
Shared Cap.:	xxxx	154	xxxxx	xxxx	108	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	0.5	xxxxx	xxxxx	0.3	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	32.5	xxxxx	xxxxx	41.6	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	D	*	*	E	*	*	*	*	*	*	*
ApproachDel:		32.5			41.6		xxxxxx			xxxxxx		
ApproachLOS:		D			E		*			*		

Note: Queue reported is the number of cars per lane.

Peak Hour Delay Signal Warrant Report

****

Intersection #3 Mill Rd/Arroyo Grande Way & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 1!	0	0	0 0 1!	0	0	1 0 1	1	0	1 0 2	0	1
Initial Vol:	8	0	15	6	0	4	3	1077	13	17	1002	8
ApproachDel:	32.5			41.6			xxxxxx			xxxxxx		

Approach[northbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.2]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=23]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=2153]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[southbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=10]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=2153]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER
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Peak Hour Volume Signal Warrant Report [Urban]

****

Intersection #3 Mill Rd/Arroyo Grande Way & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 1!	0	0	0 0 1!	0	0	1 0 1	1	0	1 0 2	0	1
Initial Vol:	8	0	15	6	0	4	3	1077	13	17	1002	8

Major Street Volume: 2120
Minor Approach Volume: 23
Minor Approach Volume Threshold: 26 [less than minimum of 100]

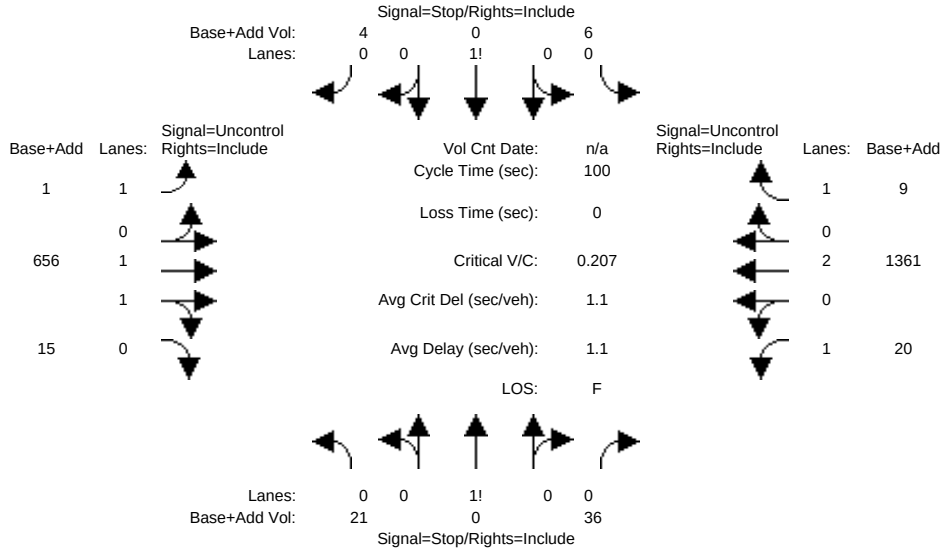
SIGNAL WARRANT DISCLAIMER
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Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Alternative)
Cumulative AM +P

Intersection #3: Mill Rd/Arroyo Grande Way & Lark Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module:												
Base Vol:	21	0	36	6	0	4	1	650	15	20	1344	9
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	21	0	36	6	0	4	1	650	15	20	1344	9
Added Vol:	0	0	0	0	0	0	0	6	0	0	17	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	21	0	36	6	0	4	1	656	15	20	1361	9
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	21	0	36	6	0	4	1	656	15	20	1361	9
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	21	0	36	6	0	4	1	656	15	20	1361	9
Critical Gap Module:												
Critical Gp:	7.5	6.5	6.9	7.5	6.5	6.9	4.1	xxxx	xxxxx	4.1	xxxx	xxxxx
FollowUpTim:	3.5	4.0	3.3	3.5	4.0	3.3	2.2	xxxx	xxxxx	2.2	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	1386	2076	336	1731	2074	681	1370	xxxx	xxxxx	671	xxxx	xxxxx
Potent Cap.:	104	54	666	58	54	398	508	xxxx	xxxxx	929	xxxx	xxxxx
Move Cap.:	101	53	666	54	53	398	508	xxxx	xxxxx	929	xxxx	xxxxx
Volume/Cap:	0.21	0.00	0.05	0.11	0.00	0.01	0.00	xxxx	xxxx	0.02	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.0	xxxx	xxxxx	0.1	xxxx	xxxxx
Control Del:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	12.1	xxxx	xxxxx	9.0	xxxx	xxxxx
LOS by Move:	*	*	*	*	*	*	B	*	*	A	*	*
Movement:	LT - LTR		RT	LT - LTR		RT	LT - LTR		RT	LT - LTR		RT
Shared Cap.:	xxxx	218	xxxxx	xxxx	82	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	1.0	xxxxx	xxxxx	0.4	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	27.2	xxxxx	xxxxx	54.9	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	D	*	*	F	*	*	*	*	*	*	*
ApproachDel:		27.2			54.9		xxxxxx			xxxxxx		
ApproachLOS:		D			F		*			*		

Note: Queue reported is the number of cars per lane.

Peak Hour Delay Signal Warrant Report

****

Intersection #3 Mill Rd/Arroyo Grande Way & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 1!	0	0	0 0 1!	0	0	1 0	1	1 0	1 0	2	0 1
Initial Vol:	21	0	36	6	0	4	1	656	15	20	1361	9
ApproachDel:	27.2			54.9			xxxxxx			xxxxxx		

Approach[northbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.4]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=57]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=2129]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[southbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.2]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=10]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=2129]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER
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Peak Hour Volume Signal Warrant Report [Urban]

****

Intersection #3 Mill Rd/Arroyo Grande Way & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 1!	0	0	0 0 1!	0	0	1 0	1	1 0	1 0	2	0 1
Initial Vol:	21	0	36	6	0	4	1	656	15	20	1361	9

Major Street Volume: 2062
Minor Approach Volume: 57
Minor Approach Volume Threshold: 36 [less than minimum of 100]

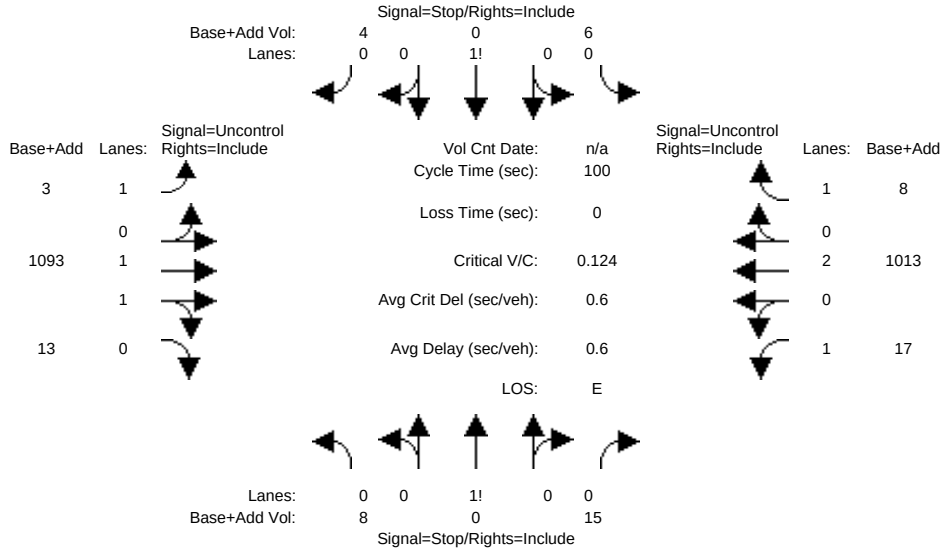
SIGNAL WARRANT DISCLAIMER
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Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Alternative)
Cumulative PM +P

Intersection #3: Mill Rd/Arroyo Grande Way & Lark Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module:												
Base Vol:	8	0	15	6	0	4	3	1077	13	17	1002	8
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	8	0	15	6	0	4	3	1077	13	17	1002	8
Added Vol:	0	0	0	0	0	0	0	16	0	0	11	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	8	0	15	6	0	4	3	1093	13	17	1013	8
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	8	0	15	6	0	4	3	1093	13	17	1013	8
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	8	0	15	6	0	4	3	1093	13	17	1013	8
Critical Gap Module:												
Critical Gp:	7.5	6.5	6.9	7.5	6.5	6.9	4.1	xxxx	xxxxx	4.1	xxxx	xxxxx
FollowUpTim:	3.5	4.0	3.3	3.5	4.0	3.3	2.2	xxxx	xxxxx	2.2	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	1646	2161	553	1600	2159	507	1021	xxxx	xxxxx	1106	xxxx	xxxxx
Potent Cap.:	67	48	482	72	48	517	688	xxxx	xxxxx	639	xxxx	xxxxx
Move Cap.:	65	47	482	69	47	517	688	xxxx	xxxxx	639	xxxx	xxxxx
Volume/Cap:	0.12	0.00	0.03	0.09	0.00	0.01	0.00	xxxx	xxxx	0.03	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.0	xxxx	xxxxx	0.1	xxxx	xxxxx
Control Del:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	10.3	xxxx	xxxxx	10.8	xxxx	xxxxx
LOS by Move:	*	*	*	*	*	*	B	*	*	B	*	*
Movement:	LT - LTR - RT			LT - LTR - RT			LT - LTR - RT			LT - LTR - RT		
Shared Cap.:	xxxx	149	xxxxx	xxxx	105	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	0.5	xxxxx	xxxxx	0.3	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	33.6	xxxxx	xxxxx	42.9	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	D	*	*	E	*	*	*	*	*	*	*
ApproachDel:		33.6			42.9		xxxxxx			xxxxxx		
ApproachLOS:		D			E		*			*		

Note: Queue reported is the number of cars per lane.

Peak Hour Delay Signal Warrant Report

****

Intersection #3 Mill Rd/Arroyo Grande Way & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 1!	0	0	0 0 1!	0	0	1 0 1	1	0	1 0 2	0	1
Initial Vol:	8	0	15	6	0	4	3	1093	13	17	1013	8
ApproachDel:	33.6			42.9			xxxxxx			xxxxxx		

Approach[northbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.2]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=23]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=2180]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[southbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=10]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=2180]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER
This peak hour signal warrant analysis should be considered solely as an "indicator" of the likelihood of an unsignalized intersection warranting a traffic signal in the future. Intersections that exceed this warrant are probably more likely to meet one or more of the other volume based signal warrant (such as the 4-hour or 8-hour warrants).

The peak hour warrant analysis in this report is not intended to replace a rigorous and complete traffic signal warrant analysis by the responsible jurisdiction. Consideration of the other signal warrants, which is beyond the scope of this software, may yield different results.

Peak Hour Volume Signal Warrant Report [Urban]

****

Intersection #3 Mill Rd/Arroyo Grande Way & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 1!	0	0	0 0 1!	0	0	1 0 1	1	0	1 0 2	0	1
Initial Vol:	8	0	15	6	0	4	3	1093	13	17	1013	8

Major Street Volume: 2147
Minor Approach Volume: 23
Minor Approach Volume Threshold: 22 [less than minimum of 100]

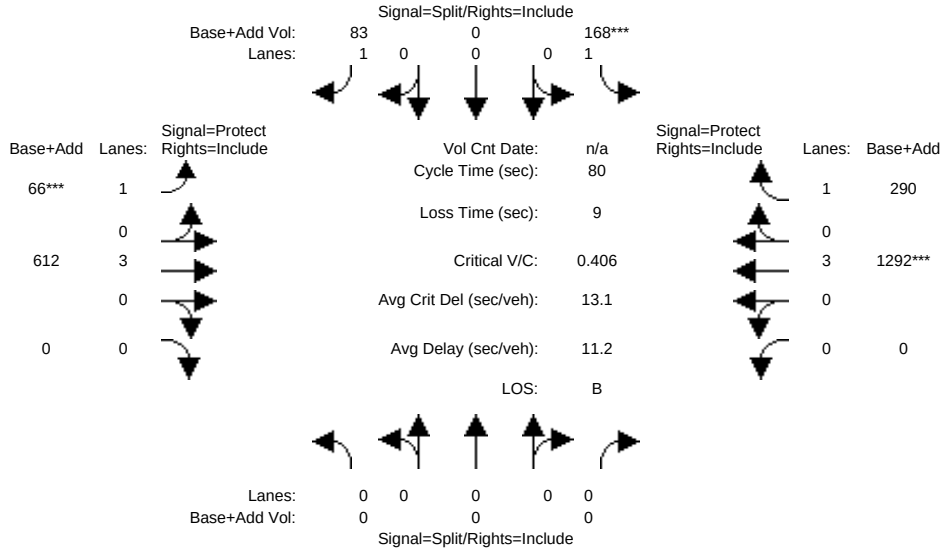
SIGNAL WARRANT DISCLAIMER
This peak hour signal warrant analysis should be considered solely as an "indicator" of the likelihood of an unsignalized intersection warranting a traffic signal in the future. Intersections that exceed this warrant are probably more likely to meet one or more of the other volume based signal warrant (such as the 4-hour or 8-hour warrants).

The peak hour warrant analysis in this report is not intended to replace a rigorous and complete traffic signal warrant analysis by the responsible jurisdiction. Consideration of the other signal warrants, which is beyond the scope of this software, may yield different results.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative AM

Intersection #4: Oka Rd & Lark Ave



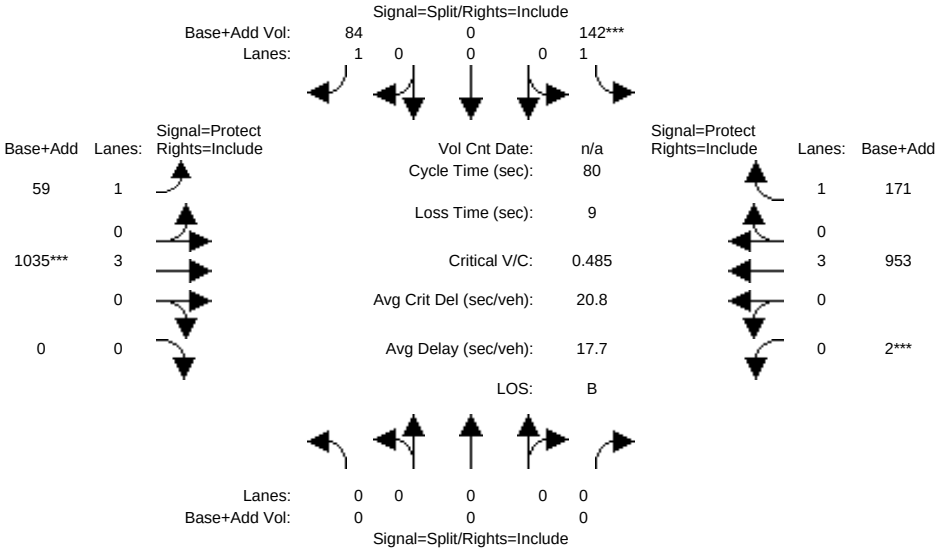
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	0	0	168	0	83	66	612	0	0	1292	290
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	168	0	83	66	612	0	0	1292	290
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	168	0	83	66	612	0	0	1292	290
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	168	0	83	66	612	0	0	1292	290
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	168	0	83	66	612	0	0	1292	290
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	168	0	83	66	612	0	0	1292	290
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	3.00	0.00	0.00	3.00	1.00
Final Sat.:	0	0	0	1750	0	1750	1750	5700	0	0	5700	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.10	0.00	0.05	0.04	0.11	0.00	0.00	0.23	0.17
Crit Moves:				****			****				****	
Green/Cycle:	0.00	0.00	0.00	0.24	0.00	0.24	0.09	0.65	0.00	0.00	0.56	0.56
Volume/Cap:	0.00	0.00	0.00	0.41	0.00	0.20	0.41	0.16	0.00	0.00	0.41	0.30
Uniform Del:	0.0	0.0	0.0	25.8	0.0	24.5	34.2	5.5	0.0	0.0	10.1	9.4
IncremntDel:	0.0	0.0	0.0	0.7	0.0	0.2	1.7	0.0	0.0	0.0	0.1	0.2
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Delay/Veh:	0.0	0.0	0.0	26.5	0.0	24.7	35.9	5.5	0.0	0.0	10.2	9.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	26.5	0.0	24.7	35.9	5.5	0.0	0.0	10.2	9.5
LOS by Move:	A	A	A	C	A	C	D	A	A	A	B	A
HCM2kAvgQ:	0	0	0	4	0	2	2	2	0	0	6	4

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative PM

Intersection #4: Oka Rd & Lark Ave



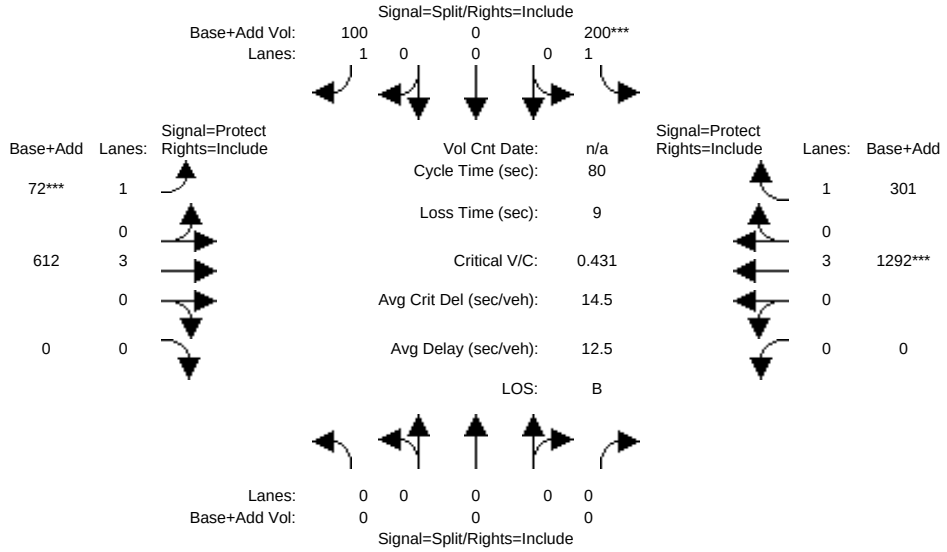
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	0	0	142	0	84	59	1035	0	2	953	171
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	142	0	84	59	1035	0	2	953	171
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	142	0	84	59	1035	0	2	953	171
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	142	0	84	59	1035	0	2	953	171
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	142	0	84	59	1035	0	2	953	171
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	142	0	84	59	1035	0	2	953	171
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	3.00	0.00	0.01	2.99	1.00
Final Sat.:	0	0	0	1750	0	1750	1750	5700	0	12	5687	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.08	0.00	0.05	0.03	0.18	0.00	0.17	0.17	0.10
Crit Moves:				****				****		****		
Green/Cycle:	0.00	0.00	0.00	0.17	0.00	0.17	0.25	0.37	0.00	0.35	0.47	0.47
Volume/Cap:	0.00	0.00	0.00	0.48	0.00	0.29	0.14	0.48	0.00	0.48	0.35	0.21
Uniform Del:	0.0	0.0	0.0	30.2	0.0	29.1	23.5	19.1	0.0	20.6	13.3	12.3
IncremntDel:	0.0	0.0	0.0	1.3	0.0	0.5	0.1	0.2	0.0	0.2	0.1	0.1
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Delay/Veh:	0.0	0.0	0.0	31.4	0.0	29.7	23.6	19.3	0.0	20.8	13.4	12.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	31.4	0.0	29.7	23.6	19.3	0.0	20.8	13.4	12.4
LOS by Move:	A	A	A	C	A	C	C	B	A	C	B	B
HCM2kAvgQ:	0	0	0	4	0	2	1	6	0	6	5	3

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative AM +P

Intersection #4: Oka Rd & Lark Ave



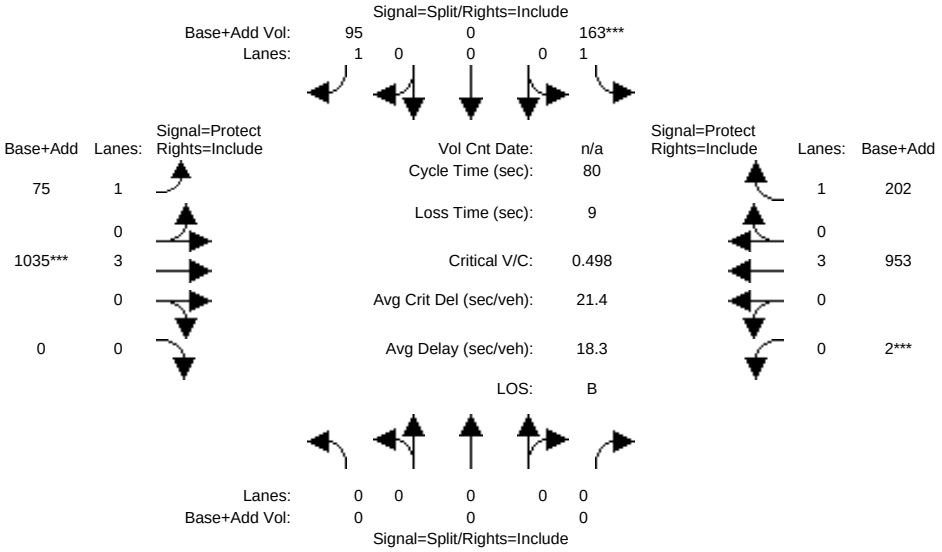
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	0	0	168	0	83	66	612	0	0	1292	290
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	168	0	83	66	612	0	0	1292	290
Added Vol:	0	0	0	32	0	17	6	0	0	0	0	11
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	200	0	100	72	612	0	0	1292	301
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	200	0	100	72	612	0	0	1292	301
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	200	0	100	72	612	0	0	1292	301
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	200	0	100	72	612	0	0	1292	301
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	3.00	0.00	0.00	3.00	1.00
Final Sat.:	0	0	0	1750	0	1750	1750	5700	0	0	5700	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.11	0.00	0.06	0.04	0.11	0.00	0.00	0.23	0.17
Crit Moves:				****			****				****	
Green/Cycle:	0.00	0.00	0.00	0.27	0.00	0.27	0.10	0.62	0.00	0.00	0.53	0.53
Volume/Cap:	0.00	0.00	0.00	0.43	0.00	0.22	0.43	0.17	0.00	0.00	0.43	0.33
Uniform Del:	0.0	0.0	0.0	24.4	0.0	22.9	34.1	6.4	0.0	0.0	11.6	10.8
IncremntDel:	0.0	0.0	0.0	0.6	0.0	0.2	1.8	0.0	0.0	0.0	0.1	0.2
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Delay/Veh:	0.0	0.0	0.0	25.0	0.0	23.1	35.9	6.4	0.0	0.0	11.7	11.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	25.0	0.0	23.1	35.9	6.4	0.0	0.0	11.7	11.0
LOS by Move:	A	A	A	C	A	C	D	A	A	A	B	B
HCM2kAvgQ:	0	0	0	5	0	2	2	2	0	0	6	4

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative PM +P

Intersection #4: Oka Rd & Lark Ave



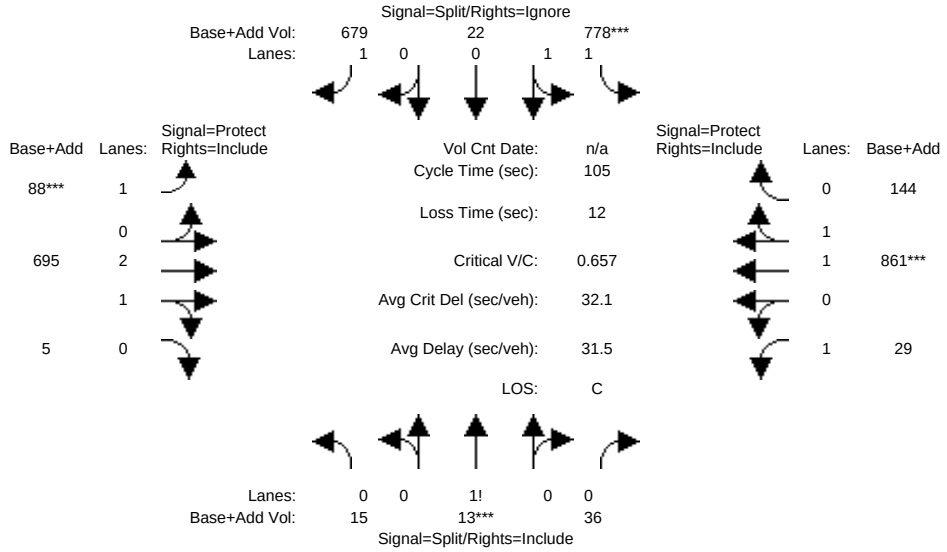
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	0	0	0	142	0	84	59	1035	0	2	953	171
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	142	0	84	59	1035	0	2	953	171
Added Vol:	0	0	0	21	0	11	16	0	0	0	0	31
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	163	0	95	75	1035	0	2	953	202
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	163	0	95	75	1035	0	2	953	202
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	163	0	95	75	1035	0	2	953	202
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	163	0	95	75	1035	0	2	953	202
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	3.00	0.00	0.01	2.99	1.00
Final Sat.:	0	0	0	1750	0	1750	1750	5700	0	12	5687	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.09	0.00	0.05	0.04	0.18	0.00	0.17	0.17	0.12
Crit Moves:				****				****		****		
Green/Cycle:	0.00	0.00	0.00	0.19	0.00	0.19	0.24	0.36	0.00	0.34	0.46	0.46
Volume/Cap:	0.00	0.00	0.00	0.50	0.00	0.29	0.18	0.50	0.00	0.50	0.36	0.25
Uniform Del:	0.0	0.0	0.0	29.2	0.0	28.0	24.1	19.7	0.0	21.2	14.0	13.2
IncremntDel:	0.0	0.0	0.0	1.2	0.0	0.5	0.2	0.2	0.0	0.2	0.1	0.2
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Delay/Veh:	0.0	0.0	0.0	30.4	0.0	28.5	24.3	19.9	0.0	21.4	14.1	13.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	30.4	0.0	28.5	24.3	19.9	0.0	21.4	14.1	13.3
LOS by Move:	A	A	A	C	A	C	C	B	A	C	B	B
HCM2kAvgQ:	0	0	0	4	0	2	1	6	0	6	5	3

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative AM

Intersection #5: SB 17 Ramp & Lark Ave



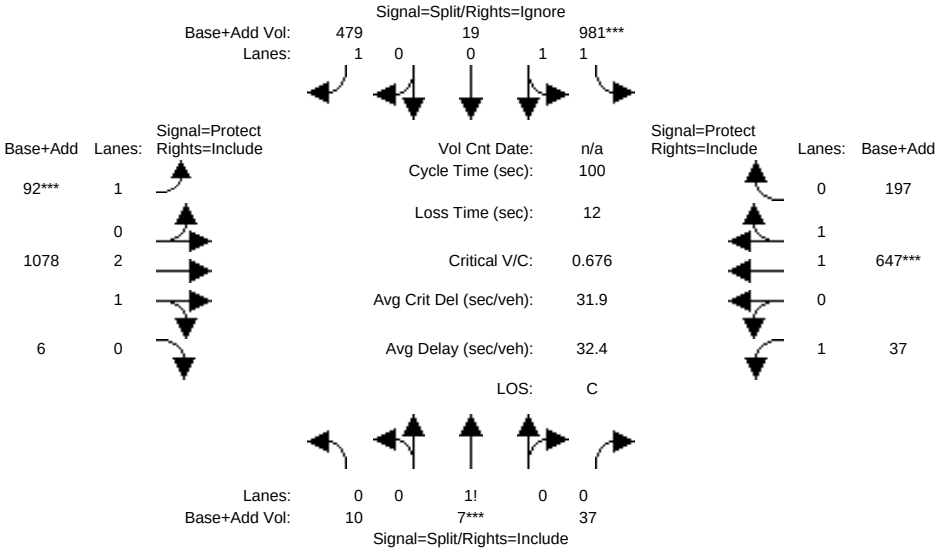
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	15	13	36	778	22	679	88	695	5	29	861	144
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	15	13	36	778	22	679	88	695	5	29	861	144
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	15	13	36	778	22	679	88	695	5	29	861	144
User Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	15	13	36	778	22	0	88	695	5	29	861	144
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	15	13	36	778	22	0	88	695	5	29	861	144
PCE Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	15	13	36	778	22	0	88	695	5	29	861	144
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.24	0.19	0.57	1.95	0.05	1.00	1.00	2.98	0.02	1.00	1.69	0.31
Final Sat.:	417	361	1000	3411	96	1750	1750	5656	41	1750	3216	538
Capacity Analysis Module:												
Vol/Sat:	0.04	0.04	0.04	0.23	0.23	0.00	0.05	0.12	0.12	0.02	0.27	0.27
Crit Moves:		****		****			****				****	
Green/Cycle:	0.10	0.10	0.10	0.33	0.33	0.00	0.07	0.30	0.30	0.16	0.39	0.39
Volume/Cap:	0.38	0.38	0.38	0.69	0.69	0.00	0.69	0.41	0.41	0.10	0.69	0.69
Uniform Del:	44.6	44.6	44.6	30.5	30.5	0.0	47.5	29.5	29.5	37.5	26.9	26.9
IncremntDel:	1.4	1.4	1.4	1.8	1.8	0.0	15.0	0.2	0.2	0.2	1.4	1.4
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	46.0	46.0	46.0	32.3	32.3	0.0	62.5	29.6	29.6	37.7	28.3	28.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	46.0	46.0	46.0	32.3	32.3	0.0	62.5	29.6	29.6	37.7	28.3	28.3
LOS by Move:	D	D	D	C	C	A	E	C	C	D	C	C
HCM2kAvgQ:	2	2	2	13	13	0	3	6	6	1	14	14

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative PM

Intersection #5: SB 17 Ramp & Lark Ave



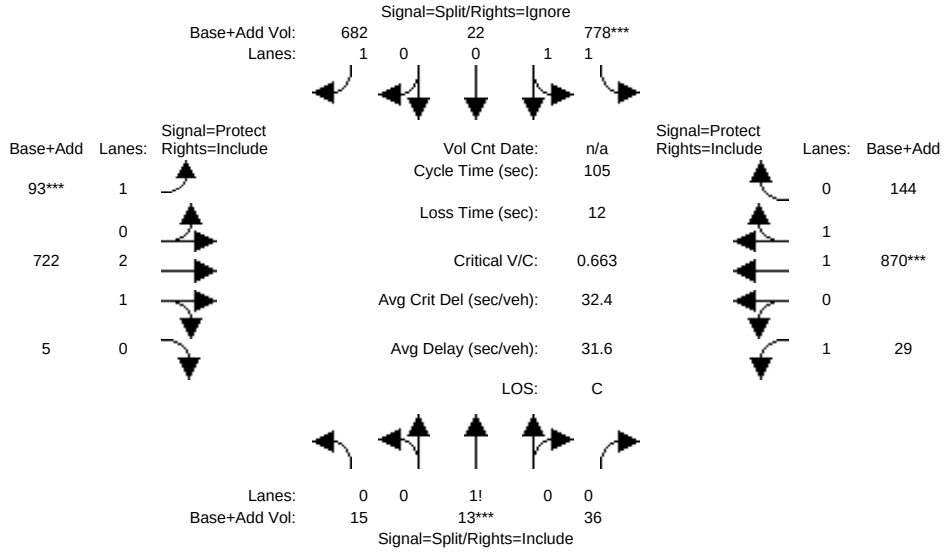
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	10	7	37	981	19	479	92	1078	6	37	647	197
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	10	7	37	981	19	479	92	1078	6	37	647	197
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	10	7	37	981	19	479	92	1078	6	37	647	197
User Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	10	7	37	981	19	0	92	1078	6	37	647	197
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	10	7	37	981	19	0	92	1078	6	37	647	197
PCE Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	10	7	37	981	19	0	92	1078	6	37	647	197
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.19	0.12	0.69	1.96	0.04	1.00	1.00	2.98	0.02	1.00	1.50	0.50
Final Sat.:	327	229	1211	3439	67	1750	1750	5666	32	1750	2856	870
Capacity Analysis Module:												
Vol/Sat:	0.03	0.03	0.03	0.29	0.29	0.00	0.05	0.19	0.19	0.02	0.23	0.23
Crit Moves:		****		****			****				****	
Green/Cycle:	0.10	0.10	0.10	0.39	0.39	0.00	0.07	0.28	0.28	0.10	0.31	0.31
Volume/Cap:	0.31	0.31	0.31	0.72	0.72	0.00	0.72	0.67	0.67	0.20	0.72	0.72
Uniform Del:	41.8	41.8	41.8	25.7	25.7	0.0	45.4	31.8	31.8	41.0	30.5	30.5
IncremntDel:	1.0	1.0	1.0	1.9	1.9	0.0	18.5	1.2	1.2	0.6	2.3	2.3
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	42.8	42.8	42.8	27.6	27.6	0.0	63.9	33.0	33.0	41.6	32.8	32.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	42.8	42.8	42.8	27.6	27.6	0.0	63.9	33.0	33.0	41.6	32.8	32.8
LOS by Move:	D	D	D	C	C	A	E	C	C	D	C	C
HCM2kAvgQ:	2	2	2	15	15	0	3	10	10	1	12	12

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative AM +P

Intersection #5: SB 17 Ramp & Lark Ave



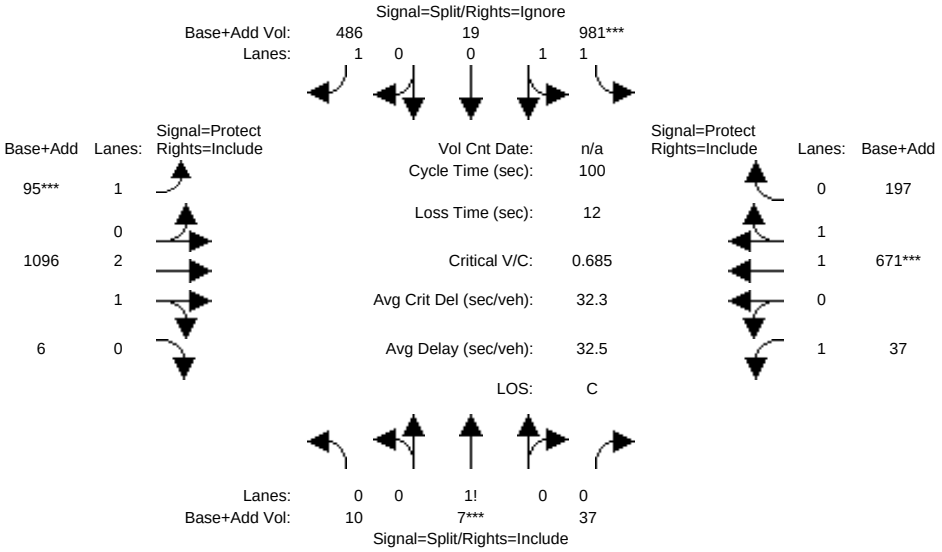
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	15	13	36	778	22	679	88	695	5	29	861	144
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	15	13	36	778	22	679	88	695	5	29	861	144
Added Vol:	0	0	0	0	0	3	5	27	0	0	9	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	15	13	36	778	22	682	93	722	5	29	870	144
User Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	15	13	36	778	22	0	93	722	5	29	870	144
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	15	13	36	778	22	0	93	722	5	29	870	144
PCE Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	15	13	36	778	22	0	93	722	5	29	870	144
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.24	0.19	0.57	1.95	0.05	1.00	1.00	2.98	0.02	1.00	1.70	0.30
Final Sat.:	417	361	1000	3411	96	1750	1750	5657	39	1750	3221	533
Capacity Analysis Module:												
Vol/Sat:	0.04	0.04	0.04	0.23	0.23	0.00	0.05	0.13	0.13	0.02	0.27	0.27
Crit Moves:		****		****			****				****	
Green/Cycle:	0.10	0.10	0.10	0.33	0.33	0.00	0.08	0.30	0.30	0.16	0.39	0.39
Volume/Cap:	0.38	0.38	0.38	0.70	0.70	0.00	0.70	0.42	0.42	0.10	0.70	0.70
Uniform Del:	44.6	44.6	44.6	30.8	30.8	0.0	47.3	29.1	29.1	37.8	27.0	27.0
IncremntDel:	1.4	1.4	1.4	1.9	1.9	0.0	15.0	0.2	0.2	0.2	1.5	1.5
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	46.0	46.0	46.0	32.7	32.7	0.0	62.3	29.3	29.3	37.9	28.5	28.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	46.0	46.0	46.0	32.7	32.7	0.0	62.3	29.3	29.3	37.9	28.5	28.5
LOS by Move:	D	D	D	C	C	A	E	C	C	D	C	C
HCM2kAvgQ:	2	2	2	13	13	0	3	6	6	1	14	14

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative PM +P

Intersection #5: SB 17 Ramp & Lark Ave



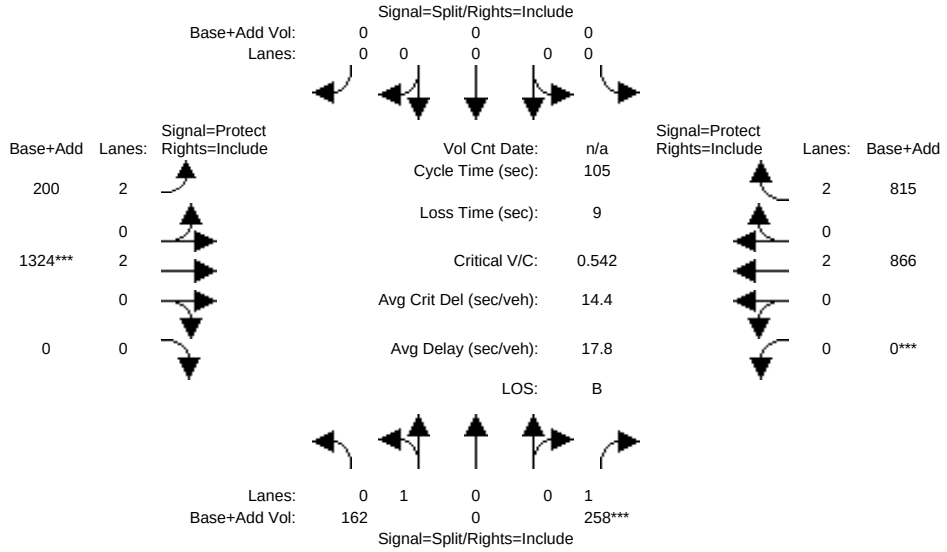
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	7	10	10	7	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	10	7	37	981	19	479	92	1078	6	37	647	197
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	10	7	37	981	19	479	92	1078	6	37	647	197
Added Vol:	0	0	0	0	0	7	3	18	0	0	24	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	10	7	37	981	19	486	95	1096	6	37	671	197
User Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	10	7	37	981	19	0	95	1096	6	37	671	197
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	10	7	37	981	19	0	95	1096	6	37	671	197
PCE Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	10	7	37	981	19	0	95	1096	6	37	671	197
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92	0.92	1.00	0.92
Lanes:	0.19	0.12	0.69	1.96	0.04	1.00	1.00	2.98	0.02	1.00	1.52	0.48
Final Sat.:	327	229	1211	3439	67	1750	1750	5666	31	1750	2882	846
Capacity Analysis Module:												
Vol/Sat:	0.03	0.03	0.03	0.29	0.29	0.00	0.05	0.19	0.19	0.02	0.23	0.23
Crit Moves:		****		****			****				****	
Green/Cycle:	0.10	0.10	0.10	0.39	0.39	0.00	0.07	0.29	0.29	0.10	0.32	0.32
Volume/Cap:	0.31	0.31	0.31	0.73	0.73	0.00	0.73	0.67	0.67	0.20	0.73	0.73
Uniform Del:	41.8	41.8	41.8	26.1	26.1	0.0	45.3	31.5	31.5	41.0	30.4	30.4
IncremntDel:	1.0	1.0	1.0	2.1	2.1	0.0	19.4	1.1	1.1	0.6	2.4	2.4
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	42.8	42.8	42.8	28.2	28.2	0.0	64.7	32.6	32.6	41.6	32.8	32.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	42.8	42.8	42.8	28.2	28.2	0.0	64.7	32.6	32.6	41.6	32.8	32.8
LOS by Move:	D	D	D	C	C	A	E	C	C	D	C	C
HCM2kAvgQ:	2	2	2	15	15	0	3	10	10	1	12	12

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative AM

Intersection #6: NB 17 Ramp & Lark Ave



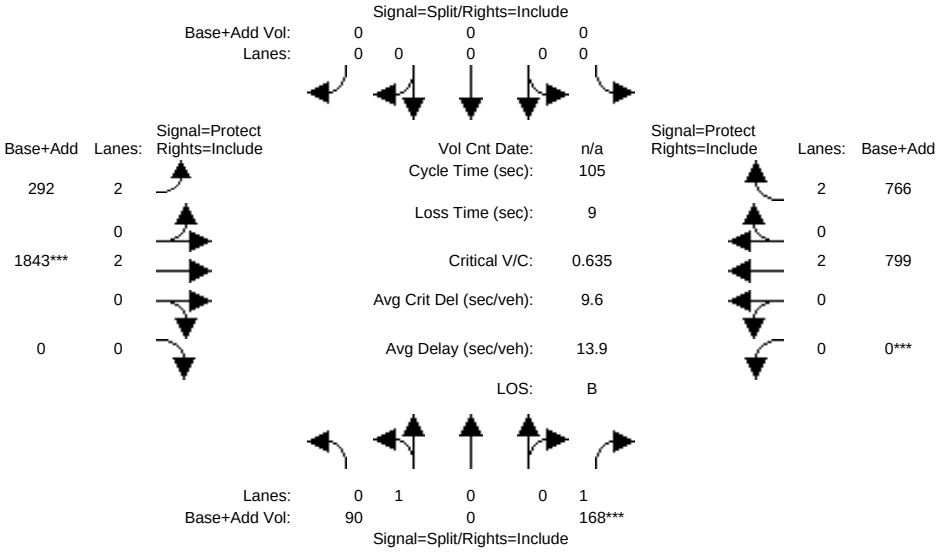
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	0	0	0	7	10	0	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	162	0	258	0	0	0	200	1324	0	0	866	815
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	162	0	258	0	0	0	200	1324	0	0	866	815
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	162	0	258	0	0	0	200	1324	0	0	866	815
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	162	0	258	0	0	0	200	1324	0	0	866	815
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	162	0	258	0	0	0	200	1324	0	0	866	815
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	162	0	258	0	0	0	200	1324	0	0	866	815
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.83
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00	2.00	2.00
Final Sat.:	1750	0	1750	0	0	0	3150	3800	0	0	3800	3150
Capacity Analysis Module:												
Vol/Sat:	0.09	0.00	0.15	0.00	0.00	0.00	0.06	0.35	0.00	0.00	0.23	0.26
Crit Moves:			****					****		****		
Green/Cycle:	0.27	0.00	0.27	0.00	0.00	0.00	0.13	0.64	0.00	0.00	0.51	0.51
Volume/Cap:	0.34	0.00	0.54	0.00	0.00	0.00	0.48	0.54	0.00	0.00	0.45	0.51
Uniform Del:	30.7	0.0	32.6	0.0	0.0	0.0	42.3	10.3	0.0	0.0	16.3	16.9
IncremntDel:	0.4	0.0	1.3	0.0	0.0	0.0	0.9	0.3	0.0	0.0	0.2	0.3
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00
Delay/Veh:	31.1	0.0	33.9	0.0	0.0	0.0	43.2	10.6	0.0	0.0	16.4	17.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	31.1	0.0	33.9	0.0	0.0	0.0	43.2	10.6	0.0	0.0	16.4	17.2
LOS by Move:	C	A	C	A	A	A	D	B	A	A	B	B
HCM2kAvgQ:	5	0	8	0	0	0	4	12	0	0	9	10

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative PM

Intersection #6: NB 17 Ramp & Lark Ave



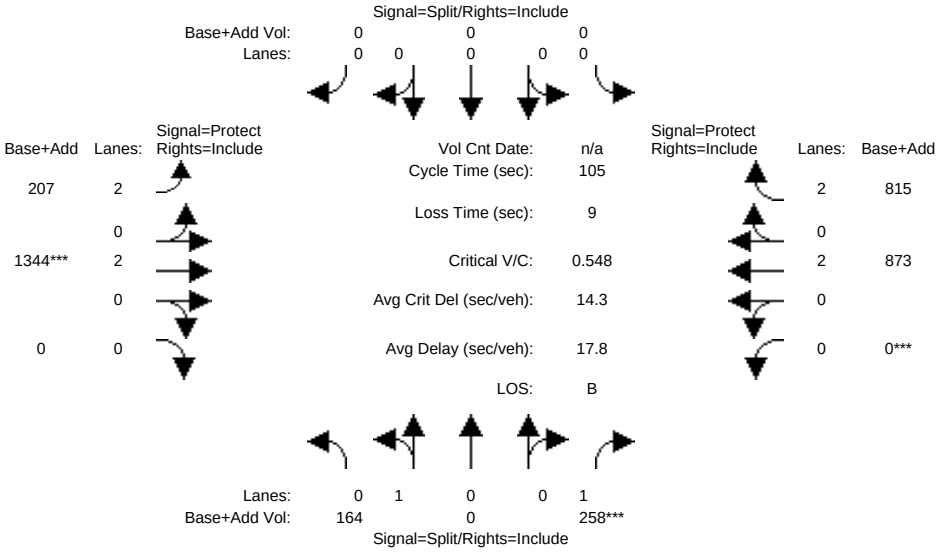
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	0	0	0	7	10	10	0	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	90	0	168	0	0	0	292	1843	0	0	799	766
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	90	0	168	0	0	0	292	1843	0	0	799	766
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	90	0	168	0	0	0	292	1843	0	0	799	766
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	90	0	168	0	0	0	292	1843	0	0	799	766
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	90	0	168	0	0	0	292	1843	0	0	799	766
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	90	0	168	0	0	0	292	1843	0	0	799	766
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.83
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00	2.00	2.00
Final Sat.:	1750	0	1750	0	0	0	3150	3800	0	0	3800	3150
Capacity Analysis Module:												
Vol/Sat:	0.05	0.00	0.10	0.00	0.00	0.00	0.09	0.49	0.00	0.00	0.21	0.24
Crit Moves:			****					****		****		
Green/Cycle:	0.15	0.00	0.15	0.00	0.00	0.00	0.21	0.76	0.00	0.00	0.55	0.55
Volume/Cap:	0.34	0.00	0.64	0.00	0.00	0.00	0.44	0.64	0.00	0.00	0.38	0.44
Uniform Del:	39.9	0.0	41.9	0.0	0.0	0.0	36.1	5.7	0.0	0.0	13.3	13.9
IncremntDel:	0.8	0.0	5.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.1	0.2
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00
Delay/Veh:	40.7	0.0	46.9	0.0	0.0	0.0	36.5	6.2	0.0	0.0	13.4	14.1
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	40.7	0.0	46.9	0.0	0.0	0.0	36.5	6.2	0.0	0.0	13.4	14.1
LOS by Move:	D	A	D	A	A	A	D	A	A	A	B	B
HCM2kAvgQ:	3	0	7	0	0	0	5	13	0	0	7	8

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative AM +P

Intersection #6: NB 17 Ramp & Lark Ave



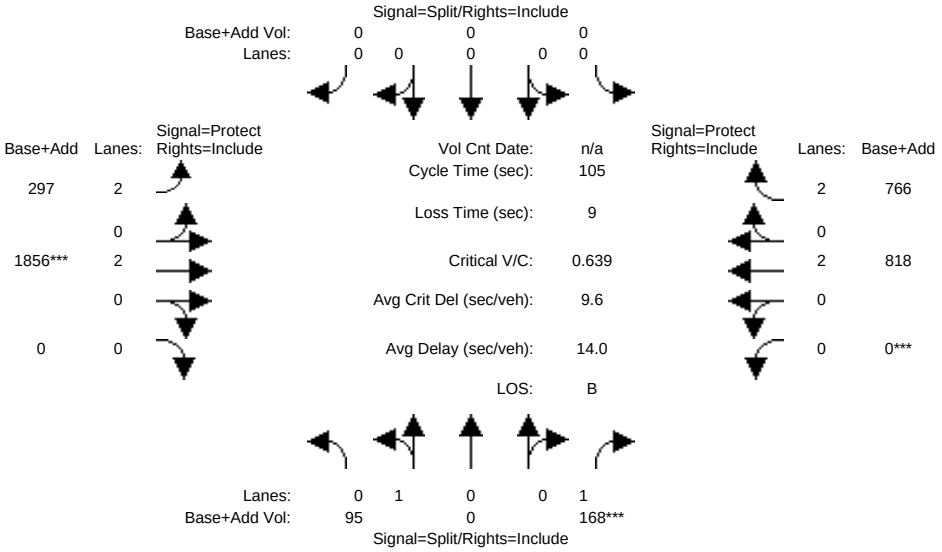
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	0	0	0	7	10	0	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	162	0	258	0	0	0	200	1324	0	0	866	815
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	162	0	258	0	0	0	200	1324	0	0	866	815
Added Vol:	2	0	0	0	0	0	7	20	0	0	7	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	164	0	258	0	0	0	207	1344	0	0	873	815
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	164	0	258	0	0	0	207	1344	0	0	873	815
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	164	0	258	0	0	0	207	1344	0	0	873	815
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	164	0	258	0	0	0	207	1344	0	0	873	815
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.83
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00	2.00	2.00
Final Sat.:	1750	0	1750	0	0	0	3150	3800	0	0	3800	3150
Capacity Analysis Module:												
Vol/Sat:	0.09	0.00	0.15	0.00	0.00	0.00	0.07	0.35	0.00	0.00	0.23	0.26
Crit Moves:			****					****		****		
Green/Cycle:	0.27	0.00	0.27	0.00	0.00	0.00	0.13	0.65	0.00	0.00	0.51	0.51
Volume/Cap:	0.35	0.00	0.55	0.00	0.00	0.00	0.50	0.55	0.00	0.00	0.45	0.50
Uniform Del:	31.0	0.0	32.9	0.0	0.0	0.0	42.3	10.2	0.0	0.0	16.2	16.8
IncremntDel:	0.4	0.0	1.4	0.0	0.0	0.0	0.9	0.3	0.0	0.0	0.2	0.3
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00
Delay/Veh:	31.4	0.0	34.3	0.0	0.0	0.0	43.3	10.5	0.0	0.0	16.3	17.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	31.4	0.0	34.3	0.0	0.0	0.0	43.3	10.5	0.0	0.0	16.3	17.0
LOS by Move:	C	A	C	A	A	A	D	B	A	A	B	B
HCM2kAvgQ:	5	0	8	0	0	0	4	12	0	0	9	10

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative PM +P

Intersection #6: NB 17 Ramp & Lark Ave



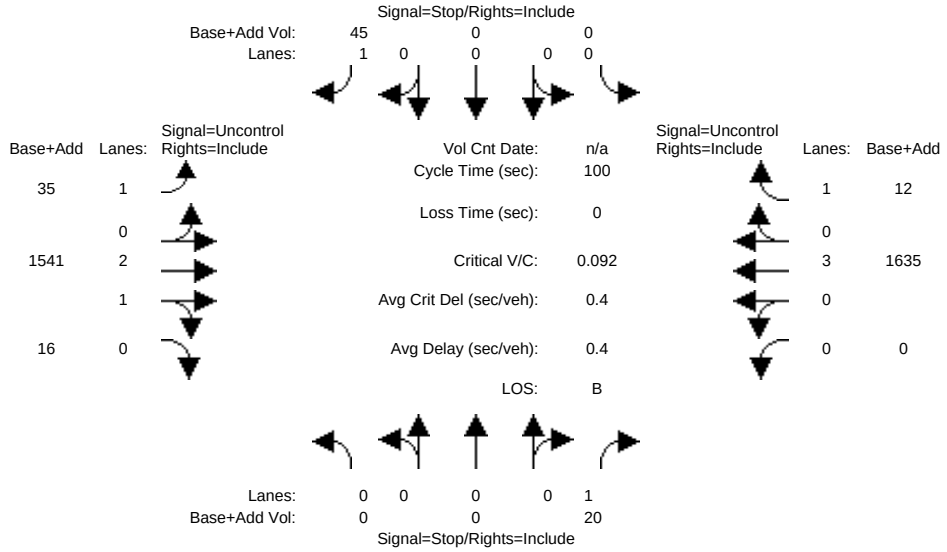
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	0	0	0	7	10	10	0	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	90	0	168	0	0	0	292	1843	0	0	799	766
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	90	0	168	0	0	0	292	1843	0	0	799	766
Added Vol:	5	0	0	0	0	0	5	13	0	0	19	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	95	0	168	0	0	0	297	1856	0	0	818	766
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	95	0	168	0	0	0	297	1856	0	0	818	766
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	95	0	168	0	0	0	297	1856	0	0	818	766
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	95	0	168	0	0	0	297	1856	0	0	818	766
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.83
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00	2.00	2.00
Final Sat.:	1750	0	1750	0	0	0	3150	3800	0	0	3800	3150
Capacity Analysis Module:												
Vol/Sat:	0.05	0.00	0.10	0.00	0.00	0.00	0.09	0.49	0.00	0.00	0.22	0.24
Crit Moves:			****					****		****		
Green/Cycle:	0.15	0.00	0.15	0.00	0.00	0.00	0.21	0.76	0.00	0.00	0.55	0.55
Volume/Cap:	0.36	0.00	0.64	0.00	0.00	0.00	0.44	0.64	0.00	0.00	0.39	0.44
Uniform Del:	40.1	0.0	41.9	0.0	0.0	0.0	35.9	5.7	0.0	0.0	13.5	14.0
IncremntDel:	0.9	0.0	5.2	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.1	0.2
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00
Delay/Veh:	40.9	0.0	47.1	0.0	0.0	0.0	36.3	6.2	0.0	0.0	13.6	14.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	40.9	0.0	47.1	0.0	0.0	0.0	36.3	6.2	0.0	0.0	13.6	14.2
LOS by Move:	D	A	D	A	A	A	D	A	A	A	B	B
HCM2kAvgQ:	3	0	7	0	0	0	5	14	0	0	7	8

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Alternative)
Cumulative AM

Intersection #7: Turner St/Highland Oaks Dr & Lark Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module:												
Base Vol:	0	0	20	0	0	45	35	1541	16	0	1635	12
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	20	0	0	45	35	1541	16	0	1635	12
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	20	0	0	45	35	1541	16	0	1635	12
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	20	0	0	45	35	1541	16	0	1635	12
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	0	20	0	0	45	35	1541	16	0	1635	12
Critical Gap Module:												
Critical Gp:	xxxxx	xxxx	6.9	xxxxx	xxxx	6.9	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx
FollowUpTim:	xxxxx	xxxx	3.3	xxxxx	xxxx	3.3	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	xxxx	xxxx	522	xxxx	xxxx	545	1647	xxxx	xxxxx	xxxx	xxxx	xxxxx
Potent Cap.:	xxxx	xxxx	505	xxxx	xxxx	488	398	xxxx	xxxxx	xxxx	xxxx	xxxxx
Move Cap.:	xxxx	xxxx	505	xxxx	xxxx	488	398	xxxx	xxxxx	xxxx	xxxx	xxxxx
Volume/Cap:	xxxx	xxxx	0.04	xxxx	xxxx	0.09	0.09	xxxx	xxxx	xxxx	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	0.1	xxxx	xxxx	0.3	0.3	xxxx	xxxxx	xxxx	xxxx	xxxxx
Control Del:	xxxxx	xxxx	12.4	xxxxx	xxxx	13.1	14.9	xxxx	xxxxx	xxxxx	xxxx	xxxxx
LOS by Move:	*	*	B	*	*	B	B	*	*	*	*	*
Movement:	LT - LTR - RT			LT - LTR - RT			LT - LTR - RT			LT - LTR - RT		
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*
ApproachDel:	12.4			13.1			xxxxxx			xxxxxx		
ApproachLOS:	B			B			*			*		

Note: Queue reported is the number of cars per lane.

Peak Hour Delay Signal Warrant Report

****

Intersection #7 Turner St/Highland Oaks Dr & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 0	0	1	0 0 0	0	1	1 0 2	1	0	0 0 3	0	1
Initial Vol:	0	0	20	0	0	45	35	1541	16	0	1635	12
ApproachDel:	12.4			13.1			xxxxxx			xxxxxx		

Approach[northbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=20]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=3304]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[southbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.2]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=45]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=3304]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER
This peak hour signal warrant analysis should be considered solely as an "indicator" of the likelihood of an unsignalized intersection warranting a traffic signal in the future. Intersections that exceed this warrant are probably more likely to meet one or more of the other volume based signal warrant (such as the 4-hour or 8-hour warrants).

The peak hour warrant analysis in this report is not intended to replace a rigorous and complete traffic signal warrant analysis by the responsible jurisdiction. Consideration of the other signal warrants, which is beyond the scope of this software, may yield different results.

Peak Hour Volume Signal Warrant Report [Urban]

****

Intersection #7 Turner St/Highland Oaks Dr & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 0	0	1	0 0 0	0	1	1 0 2	1	0	0 0 3	0	1
Initial Vol:	0	0	20	0	0	45	35	1541	16	0	1635	12

Major Street Volume: 3239
Minor Approach Volume: 45
Minor Approach Volume Threshold: -120 [less than minimum of 100]

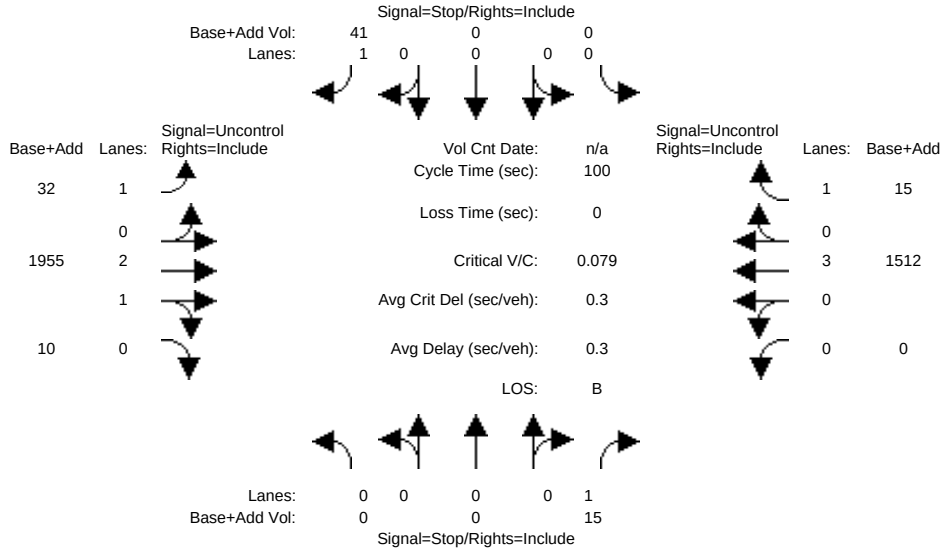
SIGNAL WARRANT DISCLAIMER
This peak hour signal warrant analysis should be considered solely as an "indicator" of the likelihood of an unsignalized intersection warranting a traffic signal in the future. Intersections that exceed this warrant are probably more likely to meet one or more of the other volume based signal warrant (such as the 4-hour or 8-hour warrants).

The peak hour warrant analysis in this report is not intended to replace a rigorous and complete traffic signal warrant analysis by the responsible jurisdiction. Consideration of the other signal warrants, which is beyond the scope of this software, may yield different results.

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Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Alternative)
Cumulative PM

Intersection #7: Turner St/Highland Oaks Dr & Lark Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module:												
Base Vol:	0	0	15	0	0	41	32	1955	10	0	1512	15
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	15	0	0	41	32	1955	10	0	1512	15
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	15	0	0	41	32	1955	10	0	1512	15
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	15	0	0	41	32	1955	10	0	1512	15
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	0	15	0	0	41	32	1955	10	0	1512	15
Critical Gap Module:												
Critical Gp:	xxxxx	xxxx	6.9	xxxxx	xxxx	6.9	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx
FollowUpTim:	xxxxx	xxxx	3.3	xxxxx	xxxx	3.3	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	xxxx	xxxx	657	xxxx	xxxx	504	1527	xxxx	xxxxx	xxxx	xxxx	xxxxx
Potent Cap.:	xxxx	xxxx	412	xxxx	xxxx	518	442	xxxx	xxxxx	xxxx	xxxx	xxxxx
Move Cap.:	xxxx	xxxx	412	xxxx	xxxx	518	442	xxxx	xxxxx	xxxx	xxxx	xxxxx
Volume/Cap:	xxxx	xxxx	0.04	xxxx	xxxx	0.08	0.07	xxxx	xxxx	xxxx	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	0.1	xxxx	xxxx	0.3	0.2	xxxx	xxxxx	xxxx	xxxx	xxxxx
Control Del:	xxxxx	xxxx	14.1	xxxxx	xxxx	12.5	13.8	xxxx	xxxxx	xxxxx	xxxx	xxxxx
LOS by Move:	*	*	B	*	*	B	B	*	*	*	*	*
Movement:	LT - LTR - RT			LT - LTR - RT			LT - LTR - RT			LT - LTR - RT		
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*
ApproachDel:	14.1			12.5			xxxxxx			xxxxxx		
ApproachLOS:	B			B			*			*		

Note: Queue reported is the number of cars per lane.

Peak Hour Delay Signal Warrant Report

****

Intersection #7 Turner St/Highland Oaks Dr & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 0	0	1	0 0 0	0	1	1 0 2	1	0	0 0 3	0	1
Initial Vol:	0	0	15	0	0	41	32	1955	10	0	1512	15
ApproachDel:	14.1			12.5			xxxxxx			xxxxxx		

Approach[northbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=15]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=3580]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[southbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=41]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=3580]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER
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Peak Hour Volume Signal Warrant Report [Urban]

****

Intersection #7 Turner St/Highland Oaks Dr & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 0	0	1	0 0 0	0	1	1 0 2	1	0	0 0 3	0	1
Initial Vol:	0	0	15	0	0	41	32	1955	10	0	1512	15

Major Street Volume: 3524
Minor Approach Volume: 41
Minor Approach Volume Threshold: -149 [less than minimum of 100]

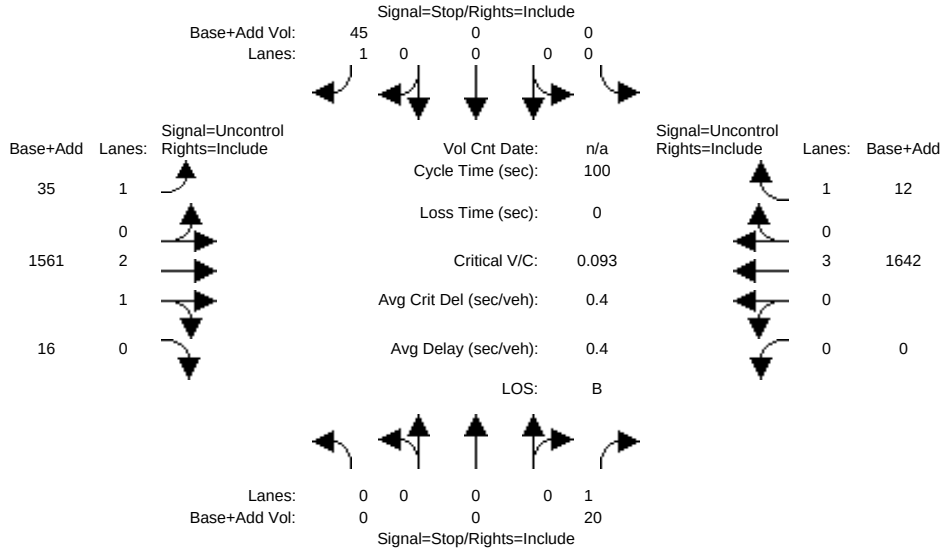
SIGNAL WARRANT DISCLAIMER
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Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Alternative)
Cumulative AM +P

Intersection #7: Turner St/Highland Oaks Dr & Lark Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module:												
Base Vol:	0	0	20	0	0	45	35	1541	16	0	1635	12
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	20	0	0	45	35	1541	16	0	1635	12
Added Vol:	0	0	0	0	0	0	0	20	0	0	7	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	20	0	0	45	35	1561	16	0	1642	12
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	20	0	0	45	35	1561	16	0	1642	12
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	0	20	0	0	45	35	1561	16	0	1642	12
Critical Gap Module:												
Critical Gp:	xxxxx	xxxx	6.9	xxxxx	xxxx	6.9	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx
FollowUpTim:	xxxxx	xxxx	3.3	xxxxx	xxxx	3.3	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	xxxx	xxxx	528	xxxx	xxxx	547	1654	xxxx	xxxxx	xxxx	xxxx	xxxxx
Potent Cap.:	xxxx	xxxx	500	xxxx	xxxx	486	395	xxxx	xxxxx	xxxx	xxxx	xxxxx
Move Cap.:	xxxx	xxxx	500	xxxx	xxxx	486	395	xxxx	xxxxx	xxxx	xxxx	xxxxx
Volume/Cap:	xxxx	xxxx	0.04	xxxx	xxxx	0.09	0.09	xxxx	xxxx	xxxx	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	0.1	xxxx	xxxx	0.3	0.3	xxxx	xxxxx	xxxx	xxxx	xxxxx
Control Del:	xxxxx	xxxx	12.5	xxxxx	xxxx	13.2	15.0	xxxx	xxxxx	xxxxx	xxxx	xxxxx
LOS by Move:	*	*	B	*	*	B	B	*	*	*	*	*
Movement:	LT - LTR - RT			LT - LTR - RT			LT - LTR - RT			LT - LTR - RT		
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*
ApproachDel:	12.5			13.2			xxxxxx			xxxxxx		
ApproachLOS:	B			B			*			*		

Note: Queue reported is the number of cars per lane.

Peak Hour Delay Signal Warrant Report

****

Intersection #7 Turner St/Highland Oaks Dr & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 0	0	1	0 0 0	0	1	1 0 2	1	0	0 0 3	0	1
Initial Vol:	0	0	20	0	0	45	35	1561	16	0	1642	12
ApproachDel:	12.5			13.2			xxxxxx			xxxxxx		

Approach[northbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=20]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=3331]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[southbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.2]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=45]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=3331]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER
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Peak Hour Volume Signal Warrant Report [Urban]

****

Intersection #7 Turner St/Highland Oaks Dr & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 0	0	1	0 0 0	0	1	1 0 2	1	0	0 0 3	0	1
Initial Vol:	0	0	20	0	0	45	35	1561	16	0	1642	12

Major Street Volume: 3266
Minor Approach Volume: 45
Minor Approach Volume Threshold: -123 [less than minimum of 100]

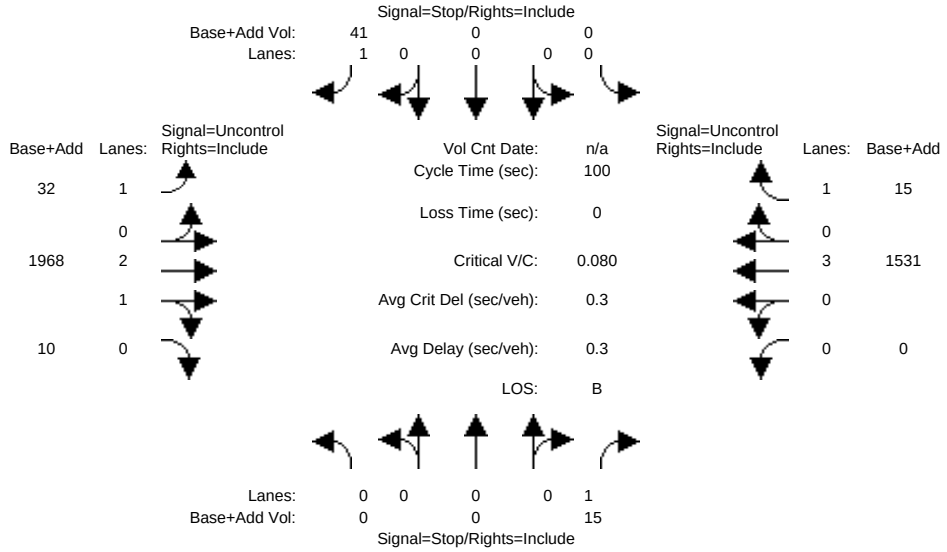
SIGNAL WARRANT DISCLAIMER
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Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Alternative)
Cumulative PM +P

Intersection #7: Turner St/Highland Oaks Dr & Lark Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module:												
Base Vol:	0	0	15	0	0	41	32	1955	10	0	1512	15
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	15	0	0	41	32	1955	10	0	1512	15
Added Vol:	0	0	0	0	0	0	0	13	0	0	19	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	15	0	0	41	32	1968	10	0	1531	15
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	15	0	0	41	32	1968	10	0	1531	15
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	0	15	0	0	41	32	1968	10	0	1531	15
Critical Gap Module:												
Critical Gp:	xxxxx	xxxx	6.9	xxxxx	xxxx	6.9	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx
FollowUpTim:	xxxxx	xxxx	3.3	xxxxx	xxxx	3.3	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	xxxx	xxxx	661	xxxx	xxxx	510	1546	xxxx	xxxxx	xxxx	xxxx	xxxxx
Potent Cap.:	xxxx	xxxx	410	xxxx	xxxx	514	435	xxxx	xxxxx	xxxx	xxxx	xxxxx
Move Cap.:	xxxx	xxxx	410	xxxx	xxxx	514	435	xxxx	xxxxx	xxxx	xxxx	xxxxx
Volume/Cap:	xxxx	xxxx	0.04	xxxx	xxxx	0.08	0.07	xxxx	xxxx	xxxx	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	0.1	xxxx	xxxx	0.3	0.2	xxxx	xxxxx	xxxx	xxxx	xxxxx
Control Del:	xxxxx	xxxx	14.1	xxxxx	xxxx	12.6	13.9	xxxx	xxxxx	xxxxx	xxxx	xxxxx
LOS by Move:	*	*	B	*	*	B	B	*	*	*	*	*
Movement:	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*
ApproachDel:	14.1			12.6			xxxxxx			xxxxxx		
ApproachLOS:	B			B			*			*		

Note: Queue reported is the number of cars per lane.

Peak Hour Delay Signal Warrant Report

****

Intersection #7 Turner St/Highland Oaks Dr & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 0	0 1		0 0 0	0 1		1 0 2	1 0		0 0 3	0 1	
Initial Vol:	0	0	15	0	0	41	32	1968	10	0	1531	15
ApproachDel:	14.1			12.6			xxxxxx			xxxxxx		

Approach[northbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=15]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=3612]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[southbound][lanes=1][control=Stop Sign]
Signal Warrant Rule #1: [vehicle-hours=0.1]
FAIL - Vehicle-hours less than 4 for one lane approach.
Signal Warrant Rule #2: [approach volume=41]
FAIL - Approach volume less than 100 for one lane approach.
Signal Warrant Rule #3: [approach count=4][total volume=3612]
SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER
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Peak Hour Volume Signal Warrant Report [Urban]

****

Intersection #7 Turner St/Highland Oaks Dr & Lark Ave

****

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Lanes:	0 0 0	0 1		0 0 0	0 1		1 0 2	1 0		0 0 3	0 1	
Initial Vol:	0	0	15	0	0	41	32	1968	10	0	1531	15

Major Street Volume: 3556
Minor Approach Volume: 41
Minor Approach Volume Threshold: -152 [less than minimum of 100]

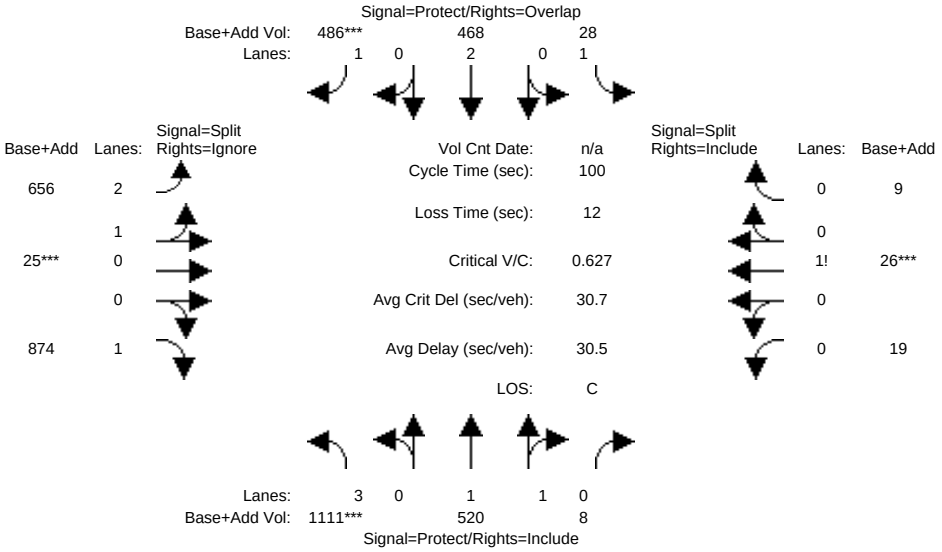
SIGNAL WARRANT DISCLAIMER
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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative AM

Intersection #8: Los Gatos Blvd & Lark Ave



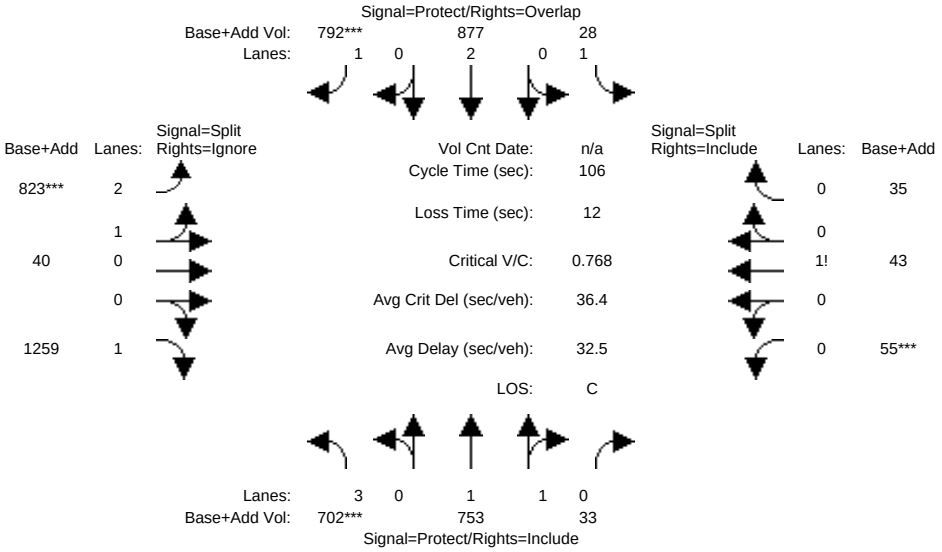
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	1111	520	8	28	468	486	656	25	874	19	26	9
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	1111	520	8	28	468	486	656	25	874	19	26	9
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	1111	520	8	28	468	486	656	25	874	19	26	9
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	1111	520	8	28	468	486	656	25	0	19	26	9
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	1111	520	8	28	468	486	656	25	0	19	26	9
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	1111	520	8	28	468	486	656	25	0	19	26	9
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.80	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92
Lanes:	3.00	1.97	0.03	1.00	2.00	1.00	2.91	0.09	1.00	0.37	0.46	0.17
Final Sat.:	4551	3738	58	1750	3800	1750	4580	175	1750	640	876	303
Capacity Analysis Module:												
Vol/Sat:	0.24	0.14	0.14	0.02	0.12	0.28	0.14	0.14	0.00	0.03	0.03	0.03
Crit Moves:	****					****		****			****	
Green/Cycle:	0.36	0.38	0.38	0.19	0.20	0.42	0.21	0.21	0.00	0.10	0.10	0.10
Volume/Cap:	0.67	0.37	0.37	0.08	0.61	0.67	0.67	0.67	0.00	0.30	0.30	0.30
Uniform Del:	26.7	22.6	22.6	33.4	36.4	23.7	36.0	36.0	0.0	41.7	41.7	41.7
IncremntDel:	1.1	0.2	0.2	0.1	1.5	2.4	1.7	1.7	0.0	0.9	0.9	0.9
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Delay/Veh:	27.7	22.7	22.7	33.5	37.9	26.1	37.8	37.8	0.0	42.7	42.7	42.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	27.7	22.7	22.7	33.5	37.9	26.1	37.8	37.8	0.0	42.7	42.7	42.7
LOS by Move:	C	C	C	C	D	C	D	D	A	D	D	D
HCM2kAvgQ:	13	6	6	1	7	14	8	8	0	2	2	2

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative PM

Intersection #8: Los Gatos Blvd & Lark Ave



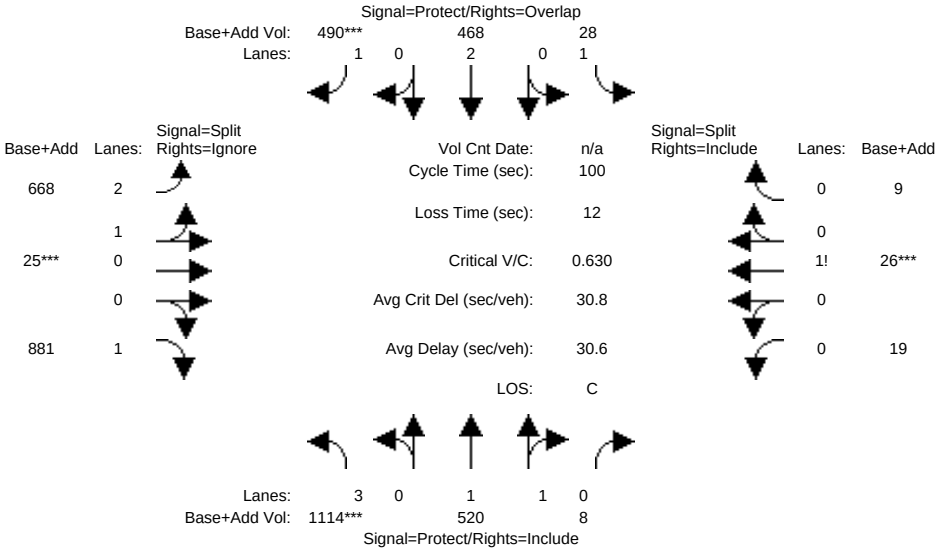
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	702	753	33	28	877	792	823	40	1259	55	43	35
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	702	753	33	28	877	792	823	40	1259	55	43	35
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	702	753	33	28	877	792	823	40	1259	55	43	35
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	702	753	33	28	877	792	823	40	0	55	43	35
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	702	753	33	28	877	792	823	40	0	55	43	35
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	702	753	33	28	877	792	823	40	0	55	43	35
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.80	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92
Lanes:	3.00	1.91	0.09	1.00	2.00	1.00	2.88	0.12	1.00	0.42	0.31	0.27
Final Sat.:	4551	3627	159	1750	3800	1750	4542	221	1750	743	581	473
Capacity Analysis Module:												
Vol/Sat:	0.15	0.21	0.21	0.02	0.23	0.45	0.18	0.18	0.00	0.07	0.07	0.07
Crit Moves:	****					****	****			****		
Green/Cycle:	0.20	0.42	0.42	0.13	0.35	0.59	0.24	0.24	0.00	0.10	0.10	0.10
Volume/Cap:	0.77	0.49	0.49	0.12	0.65	0.77	0.77	0.77	0.00	0.77	0.77	0.77
Uniform Del:	40.0	22.5	22.5	40.4	28.8	16.3	37.8	37.8	0.0	46.7	46.7	46.7
IncremntDel:	4.0	0.2	0.2	0.2	1.2	3.5	3.3	3.3	0.0	18.5	18.5	18.5
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Delay/Veh:	44.0	22.7	22.7	40.6	30.0	19.9	41.0	41.0	0.0	65.3	65.3	65.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	44.0	22.7	22.7	40.6	30.0	19.9	41.0	41.0	0.0	65.3	65.3	65.3
LOS by Move:	D	C	C	D	C	B	D	D	A	E	E	E
HCM2kAvgQ:	11	9	9	1	13	22	11	11	0	6	6	6

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative AM +P

Intersection #8: Los Gatos Blvd & Lark Ave



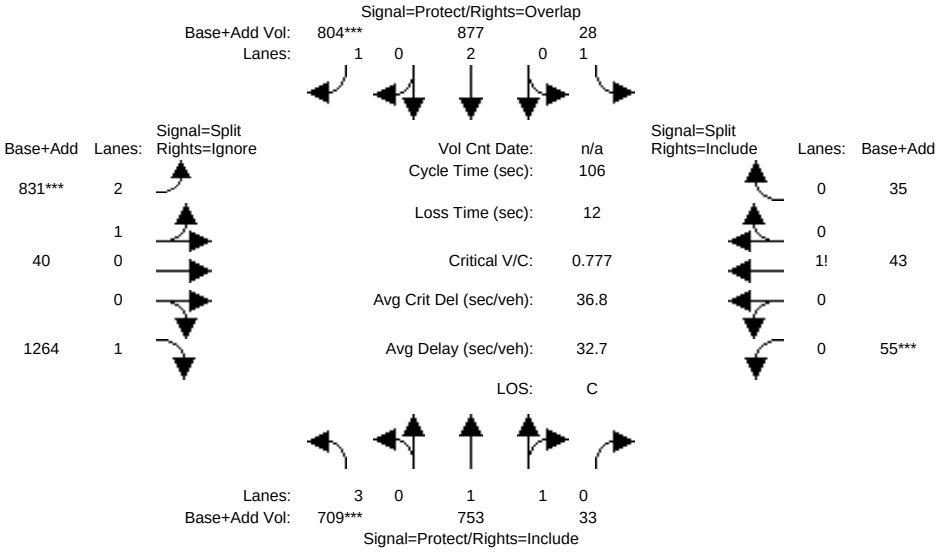
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	1111	520	8	28	468	486	656	25	874	19	26	9
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	1111	520	8	28	468	486	656	25	874	19	26	9
Added Vol:	3	0	0	0	0	4	12	0	7	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	1114	520	8	28	468	490	668	25	881	19	26	9
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	1114	520	8	28	468	490	668	25	0	19	26	9
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	1114	520	8	28	468	490	668	25	0	19	26	9
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	1114	520	8	28	468	490	668	25	0	19	26	9
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.80	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92
Lanes:	3.00	1.97	0.03	1.00	2.00	1.00	2.91	0.09	1.00	0.37	0.46	0.17
Final Sat.:	4551	3738	58	1750	3800	1750	4583	172	1750	640	876	303
Capacity Analysis Module:												
Vol/Sat:	0.24	0.14	0.14	0.02	0.12	0.28	0.15	0.15	0.00	0.03	0.03	0.03
Crit Moves:	****					****		****			****	
Green/Cycle:	0.36	0.37	0.37	0.19	0.20	0.42	0.22	0.22	0.00	0.10	0.10	0.10
Volume/Cap:	0.67	0.37	0.37	0.08	0.62	0.67	0.67	0.67	0.00	0.30	0.30	0.30
Uniform Del:	26.8	22.7	22.7	33.5	36.5	23.7	35.9	35.9	0.0	41.7	41.7	41.7
IncremntDel:	1.1	0.2	0.2	0.1	1.5	2.5	1.8	1.8	0.0	0.9	0.9	0.9
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Delay/Veh:	27.9	22.9	22.9	33.6	38.1	26.2	37.7	37.7	0.0	42.7	42.7	42.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	27.9	22.9	22.9	33.6	38.1	26.2	37.7	37.7	0.0	42.7	42.7	42.7
LOS by Move:	C	C	C	C	D	C	D	D	A	D	D	D
HCM2kAvgQ:	13	6	6	1	7	14	8	8	0	2	2	2

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Cumulative PM +P

Intersection #8: Los Gatos Blvd & Lark Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	702	753	33	28	877	792	823	40	1259	55	43	35
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	702	753	33	28	877	792	823	40	1259	55	43	35
Added Vol:	7	0	0	0	0	12	8	0	5	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	709	753	33	28	877	804	831	40	1264	55	43	35
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	709	753	33	28	877	804	831	40	0	55	43	35
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	709	753	33	28	877	804	831	40	0	55	43	35
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	709	753	33	28	877	804	831	40	0	55	43	35
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.80	1.00	0.92	0.92	1.00	0.92	0.83	1.00	0.92	0.92	1.00	0.92
Lanes:	3.00	1.91	0.09	1.00	2.00	1.00	2.88	0.12	1.00	0.42	0.31	0.27
Final Sat.:	4551	3627	159	1750	3800	1750	4544	219	1750	743	581	473
Capacity Analysis Module:												
Vol/Sat:	0.16	0.21	0.21	0.02	0.23	0.46	0.18	0.18	0.00	0.07	0.07	0.07
Crit Moves:	****					****	****			****		
Green/Cycle:	0.20	0.42	0.42	0.13	0.36	0.59	0.24	0.24	0.00	0.10	0.10	0.10
Volume/Cap:	0.78	0.49	0.49	0.12	0.65	0.78	0.78	0.78	0.00	0.78	0.78	0.78
Uniform Del:	40.1	22.3	22.3	40.4	28.6	16.4	37.9	37.9	0.0	46.9	46.9	46.9
IncremntDel:	4.3	0.2	0.2	0.2	1.1	3.8	3.5	3.5	0.0	19.9	19.9	19.9
InitQueuDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Delay/Veh:	44.4	22.6	22.6	40.6	29.7	20.2	41.4	41.4	0.0	66.7	66.7	66.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	44.4	22.6	22.6	40.6	29.7	20.2	41.4	41.4	0.0	66.7	66.7	66.7
LOS by Move:	D	C	C	D	C	C	D	D	A	E	E	E
HCM2kAvgQ:	11	9	9	1	13	23	11	11	0	6	6	6

Note: Queue reported is the number of cars per lane.

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APPENDIX D

ARBORIST REPORT

Oka Road, Los Gatos CA
Arborist Report 2024

Prepared For:
UC Oka Road LLC

Site: Oka Rd,
Los Gatos, CA

Submitted by:
David Beckham
Certified Arborist
WE#10724A
TRAQ Qualified

DAVID BECKHAM
WE#10724A

DAVID BECKHAM
WE#10724A

KIELTY
ARBORISTS SERVICES LLC
Certified Arborist WE#10724A TRAQ Qualified
P.O. Box 6187 San Mateo, CA 94403
650- 532-4418

Date: June 28, 2024

Attn: UC Oka Road LLC
Attn: Erik Hayden & Joshua Burroughs
99 S. Almaden, Suite 500
San Jose, CA, 95113
Phone: 408-624-5423
Site: Oka Rd, Los Gatos

Subject: Tree protection plan for Oka Rd, Los Gatos

Dear UC Oka Road LLC,



INTRODUCTION AND OVERVIEW

Kielty Arborists Services LLC visited the property at Oka Rd on June 25, 2024, to evaluate the trees present with respect to the proposed construction project. The report below contains the analysis of the site visit conducted on June 25, 2024. UC Oka Road LLC is planning to build 126 multi-family residential units in 18 attached townhome Buildings at Oka Rd. The current site consisted of an old Walnut orchard. The findings and recommendations presented in this report are based on the SB330 preliminary application dated 4/18/24 titled "Oka Rd, Los Gatos" by HMH. These plans were electronically provided to us via email. By thoroughly analyzing these plans in conjunction with our field observations, we have developed an accurate and reliable assessment of the tree conditions and how best to mitigate potential impacts.
Showing existing walnut orchard

376 trees were surveyed for writing this report. 4 trees are protected (#17, 64, 374*, and 375). One of the protected trees is considered a "**Large Protected Tree"** (#375). One of the protected trees is a neighboring tree (#374*)

Data Summary:

Total Trees	Protected Trees	Large Protected Trees
376	3	1

*Tree #253a was originally missed and added at the time of the survey visit on June 25, making the total tree # at 376.

All of the trees on the lot (375 trees) are proposed for removal, as they are in decline or conflict with proposed project features. Neighboring mulberry tree #374 is to be retained and should be retained and protected as detailed in the recommendations below. With proper protection and cultural practices, all retained trees are expected to survive and thrive during and after construction.

ASSIGNMENT

At the request of UC Oka Road LLC, Kielty Arborists Services LLC conducted a site visit on June 25, 2024 to prepare a comprehensive Tree Inventory Report/Tree Protection Plan for the proposed construction project. This report is a requirement when submitting plans to the town of Los Gatos. The analysis in this report is based on the plans received from HMH dated April 18, 2024.

The primary focus of this report is as follows:

- Identification and assessment of trees on the construction site that may be affected by the proposed development.
- Determination of potential impacts on tree health and stability, considering factors such as root damage and crown damage.
- Provision of recommendations for tree protection and preservation measures during the construction process to mitigate potential impacts.
- Ensuring compliance with local regulations pertaining to tree preservation, protection, and removal within the construction plans.

Please note that the report will provide specific details regarding tree assessments, impacts, and preservation measures.

The town of Los Gatos requires the following tree-reporting elements for development projects:
1. Map of tree locations.
2. Tree protection or removal recommendations for all protected trees.
3. Tree Protect Plan for all protected trees.

LIMITS OF THE ASSIGNMENT

As part of this assessment, it is important to note that Kielty Arborists Services LLC did not conduct an aerial inspection of the upper crown, a detailed root crown inspection, or a plant tissue analysis on the subject trees. Therefore, the information presented in this report does not include data obtained from these specific methods.

Furthermore, it is essential to clarify that no tree risk assessments were completed as part of this report unless stated otherwise. The focus of this assessment primarily centers on tree identification, general health evaluation, and the potential impacts of the proposed construction.

While the absence of these specific assessments limits the scope of the analysis, the findings and recommendations provided within this report are based on available information and observations made during the site visit.

METHOD OF INSPECTION

The inspections were conducted from the ground without climbing the trees. No tissue samples or root crown inspections were performed. The trees under consideration were identified based on the provided site plan. To assess the trees, their diameter at 54 inches above ground level (DBH or diameter at breast height) was measured using a D-Tape. For the surveying of multi-trunk trees, our methodology aligns with town ordinances. In cases where the town does not offer specific guidelines for measuring multi-trunk trees, we adhere to the standards outlined in the "Guide for Plant Appraisal, 10th Edition, Second Printing" by the Council of Tree and Landscape Appraisers. Additionally, the protected trees were evaluated for their health, structure, form, and suitability for preservation with the following explanation of the ratings:

EVALUATION FIELDS

Tree Tag #:	Protected Tree:
Identification number for individual trees.	Specifies whether the tree is protected by the city or county ordinance.

Height (ft.) / Canopy Spread (ft.):	Trunk (in.):
Measures both the height of the tree and the spread of its canopy.	Measures the primary trunk's diameter at the required height.

Comments:	Tree Picture:
Any additional notes or observations about the tree.	A photograph of the tree for visual assessment and record-keeping.

Preserve or Remove:	Common Name / Scientific Name:
Indicates the recommended action based on the tree's condition.	Specifies the name of the tree, both in common terms and scientific nomenclature.

If more than 1 Trunks, Total Diameter:	6 ,8, 10 Times the Diameter (ft.):
If the tree has multiple trunks, this field indicates the combined diameter of all trunks.	Provides calculations based on the diameter to assist in various tree protection requirements.

Appraised Value:
An unbiased estimate of the tree's worth is performed in accordance with the current edition of the Guide for Plant Appraisal by the Council of Tree and Landscape Appraisers.

*Note that not all fields may be provided for every tree. Some might be left blank due to various reasons, such as lack of accessibility to the tree, incomplete data, or the parameter not being applicable for a particular tree.

Tree Structure Ratings:
Poor: Major uncorrectable structural flaws present; significant dead wood, decay, or multiple trunks; potentially hazardous lean.
Fair: Structural flaws exist but less severe; issues like slight lean and crowding on trunk; some uncorrectable issues through pruning.
Good: Minor flaws; mainly upright trunk, well-spaced branches; flaws correctable through pruning; symmetrical or mostly symmetrical canopy.

Tree Health Ratings:
Poor: Minimal new growth; significant dieback and pest infestation; expected not to reach natural lifespan.
Fair: Moderate new growth; canopy density 60-90%; potential external threats; not in decline but vulnerable.
Good: Vigorous growth; healthy foliage; 90-100% canopy density; expected natural lifespan.

Suitability for Preservation:
Poor: Adds little to landscape; poor health and potential hazards; unlikely to survive construction impacts.
Fair: Contributes to landscape; survival possible with protection during minor construction impacts.
Good: Valuable landscape asset; likely survival during minor to moderate construction impacts with protection.

*Suitability for Preservation: This rating is based solely on the tree itself, irrespective of potential construction impacts.

Tree Form Ratings:
Poor: Highly asymmetric or abnormal form; visually unappealing; little landscape function.
Fair: Significant asymmetries; deviation from species norm; compromised function or aesthetics.
Good: Near ideal form; minor deviations; consistent aesthetics and function in landscape.

Overall Condition Ratings:	
Very Poor	1-29
Poor	30-49
Fair	50-69
Good	70-89
Excellent	90-100

The trees were assigned a condition rating based on a combination of existing tree health, tree structure, and tree form using the following scale.

TREE INVENTORY SURVEY

Tree Tag #	Preserve or Remove	Protected Tree	Common Name	Scientific Name	Trunk (in.)	If more than 1 Trunk, Total Diameter	Height (ft.) / Canopy Spread (ft.)	Health Rating	Structural Rating	Form Rating	Overall Condition (0-100%)	Number of Replacement Trees (24" box)	Summary
1	(R)	-	**English walnut**	*Juglans regia*	1-1	2	8/5	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
2	(R)	-	**English walnut**	*Juglans regia*	2.1	-	10/6	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
3	(R)	-	**English walnut**	*Juglans regia*	3-4.2-4	11.2	12/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
4	(R)	-	**English walnut**	*Juglans regia*	3.2	-	12/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
5	(R)	-	**English walnut**	*Juglans regia*	6.8	-	14/14	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
6	(R)	-	**English walnut**	*Juglans regia*	3-3	6	12/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
7	(R)	-	**English walnut**	*Juglans regia*	7-5.3	12.3	14/14	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
8	(R)	-	**English walnut**	*Juglans regia*	4.5	-	12/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
9	(R)	-	**English walnut**	*Juglans regia*	3.8	-	12/6	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
10	(R)	-	**English walnut**	*Juglans regia*	5.8	-	14/12	Poor	Poor	Poor	0%	-	**DEAD.**
11	(R)	-	**English walnut**	*Juglans regia*	5.3	-	12/12	Poor	Poor	Fair	30%	-	Decay at root crown
12	(R)	-	**English walnut**	*Juglans regia*	2.0	-	10.8	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
13	(R)	-	**English walnut**	*Juglans regia*	6-5	11	15/15	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
14	(R)	-	**English walnut**	*Juglans regia*	6.2	-	14/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
15	(R)	-	**English walnut**	*Juglans regia*	2.0	-	10/8	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
16	(R)	-	**English walnut**	*Juglans regia*	2.5	-	10/8	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
17	(R)	(P)	**English walnut**	*Juglans regia*	8-4.8-7.2	20	15/20	Fair	Good	Good	70%	**3**	Orchard tree, well maintained for walnut production
18	(R)	-	**English walnut**	*Juglans regia*	3-3-3	9	14/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
19	(R)	-	**English walnut**	*Juglans regia*	9.0	-	14/12	Fair	Fair	Fair	50%	-	Limb at 3' removed in the past with associated decay.
20	(R)	-	**English walnut**	*Juglans regia*	2-2-1	5	10/10	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
21	(R)	-	**English walnut**	*Juglans regia*	8.5	-	15/15	Fair	Poor	Fair	50%	-	A large scar on a limb.
22	(R)	-	**English walnut**	*Juglans regia*	5.0	-	10/10	Poor	Fair	Fair	30%	-	Poor vigor.
23	(R)	-	**English walnut**	*Juglans regia*	2.0	-	8/8	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
24	(R)	-	**English walnut**	*Juglans regia*	7.0	-	12/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production

TREE INVENTORY SURVEY

Tree Tag #	Preserve or Remove	Protected Tree	Common Name	Scientific Name	Trunk (in.)	If more than 1 Trunk, Total Diameter	Height (ft.) / Canopy Spread (ft.)	Health Rating	Structural Rating	Form Rating	Overall Condition (0-100%)	Number of Replacement Trees (24" box)	Summary
25	(R)	-	**English walnut**	*Juglans regia*	1.0	-	5/4	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
26	(R)	-	**English walnut**	*Juglans regia*	8.0	-	12/15	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
27	(R)	-	**English walnut**	*Juglans regia*	7.5	-	12/14	Fair-poor	Poor	Fair	30%	-	Decay at grade.
28	(R)	-	**English walnut**	*Juglans regia*	7.0	-	10/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
29	(R)	-	**English walnut**	*Juglans regia*	3-3	6	10/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
30	(R)	-	**English walnut**	*Juglans regia*	1.0	-	6/5	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
31	(R)	-	**English walnut**	*Juglans regia*	3.0	-	12/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
32	(R)	-	**English walnut**	*Juglans regia*	1.0	-	5/4	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
33	(R)	-	**English walnut**	*Juglans regia*	1.0	-	6/3	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
34	(R)	-	**English walnut**	*Juglans regia*	5.2	-	12/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
35	(R)	-	**English walnut**	*Juglans regia*	4-3	7	10/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
36	(R)	-	**English walnut**	*Juglans regia*	1.0	-	6/5	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
37	(R)	-	**English walnut**	*Juglans regia*	7.4	-	15/15	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
38	(R)	-	**English walnut**	*Juglans regia*	4-5	9	12./14	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
39	(R)	-	**English walnut**	*Juglans regia*	6.5	-	10/8	Poor	Poor	Poor	0%	-	**DEAD**
40	(R)	-	**English walnut**	*Juglans regia*	2-2-2	6	8/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
41	(R)	-	**English walnut**	*Juglans regia*	1.0	-	6/4	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
42	(R)	-	**English walnut**	*Juglans regia*	6.4	-	12/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
43	(R)	-	**English walnut**	*Juglans regia*	5.5	-	12/10	Poor	Poor	Poor	0%	-	**DEAD**
44	(R)	-	**English walnut**	*Juglans regia*	1.0	-	8/5	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
45	(R)	-	**English walnut**	*Juglans regia*	8.1	-	15/16	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
46	(R)	-	**English walnut**	*Juglans regia*	5.6	-	10/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
47	(R)	-	**English walnut**	*Juglans regia*	5.8	-	12/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
48	(R)	-	**English walnut**	*Juglans regia*	9.2	-	15/15	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production

TREE INVENTORY SURVEY

Tree Tag #	Preserve or Remove	Protected Tree	Common Name	Scientific Name	Trunk (in.)	If more than 1 Trunk, Total Diameter	Height (ft.) / Canopy Spread (ft.)	Health Rating	Structural Rating	Form Rating	Overall Condition (0-100%)	Number of Replacement Trees (24" box)	Summary
49	(R)	-	**English walnut**	*Juglans regia*	3.2	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
50	(R)	-	**English walnut**	*Juglans regia*	8.5	-	15/15	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
51	(R)	-	**English walnut**	*Juglans regia*	1.5	-	7/6	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
52	(R)	-	**English walnut**	*Juglans regia*	6.3	-	10/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
53	(R)	-	**English walnut**	*Juglans regia*	6.3	-	10/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
54	(R)	-	**English walnut**	*Juglans regia*	1.5	-	7.5	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
55	(R)	-	**English walnut**	*Juglans regia*	1.5	-	7.5	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
56	(R)	-	**English walnut**	*Juglans regia*	1.5	-	7.5	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
57	(R)	-	**English walnut**	*Juglans regia*	3.8	-	4/0	Poor	Poor	Poor	0%	-	**DEAD, Standing stump.**
58	(R)	-	**English walnut**	*Juglans regia*	2.0	-	7/5	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
59	(R)	-	**English walnut**	*Juglans regia*	3-3	6	8/5	Poor	Poor	Poor	0%	-	**DEAD**
60	(R)	-	**English walnut**	*Juglans regia*	1.0	-	6/4	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
61	(R)	-	**English walnut**	*Juglans regia*	3-3	6	10/10	Poor	Poor	Poor	20%	-	Poor vigor, In decline.
62	(R)	-	**English walnut**	*Juglans regia*	1.0	-	8/5	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
63	(R)	-	**English walnut**	*Juglans regia*	6.5	-	14/14	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
64	(R)	(P)	**English walnut**	*Juglans regia*	18.3	-	16/16	Poor	Poor	Poor	20%	**3**	Poor vigor, abundance of dead wood, in severe decline, history of limb loss.
65	(R)	-	**English walnut**	*Juglans regia*	9.7	-	15/15	Fair	Fair	Poor	50%	-	Suppressed by oak.
66	(R)	-	**English walnut**	*Juglans regia*	1.0	-	5/2	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
67	(R)	-	**English walnut**	*Juglans regia*	5.1	-	12/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
68	(R)	-	**English walnut**	*Juglans regia*	2.2	-	8/8	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
69	(R)	-	**English walnut**	*Juglans regia*	4.3-3.7	8	14/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
70	(R)	-	**English walnut**	*Juglans regia*	5.7	-	12/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
71	(R)	-	**English walnut**	*Juglans regia*	8.0	-	14/14	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
72	(R)	-	**English walnut**	*Juglans regia*	5.3	-	12/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production

TREE INVENTORY SURVEY

Tree Tag #	Preserve or Remove	Protected Tree	Common Name	Scientific Name	Trunk (in.)	If more than 1 Trunk, Total Diameter	Height (ft.) / Canopy Spread (ft.)	Health Rating	Structural Rating	Form Rating	Overall Condition (0-100%)	Number of Replacement Trees (24" box)	Summary
73	(R)	-	**English walnut**	*Juglans regia*	4-3.5	7.5	12/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
74	(R)	-	**English walnut**	*Juglans regia*	2.0	-	8/5	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
75	(R)	-	**English walnut**	*Juglans regia*	3-2	5	10/8	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
76	(R)	-	**English walnut**	*Juglans regia*	2.0	-	8/6	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
77	(R)	-	**English walnut**	*Juglans regia*	2.0	-	8/6	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
78	(R)	-	**English walnut**	*Juglans regia*	2.0	-	8/6	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
79	(R)	-	**English walnut**	*Juglans regia*	1.0	-	5/2	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
80	(R)	-	**English walnut**	*Juglans regia*	2.0	-	7/5	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
81	(R)	-	**English walnut**	*Juglans regia*	12.1	-	20/20	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
82	(R)	-	**English walnut**	*Juglans regia*	6.5-6.5	13	18/20	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
83	(R)	-	**English walnut**	*Juglans regia*	2.0	-	6/2	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
84	(R)	-	**English walnut**	*Juglans regia*	16.1	-	18/15	Fair-poor	Poor	Fair	30%	-	Root rot observed.
85	(R)	-	**English walnut**	*Juglans regia*	2-2-2	6	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
86	(R)	-	**English walnut**	*Juglans regia*	1.0	-	5/2	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
87	(R)	-	**English walnut**	*Juglans regia*	1.0	-	7/4	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
88	(R)	-	**English walnut**	*Juglans regia*	2-2	4	7/6	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
89	(R)	-	**English walnut**	*Juglans regia*	1.0	-	7/4	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
90	(R)	-	**English walnut**	*Juglans regia*	3.8	-	10.7	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
91	(R)	-	**English walnut**	*Juglans regia*	2.2	-	8/4	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
92	(R)	-	**English walnut**	*Juglans regia*	7-6	13	15/15	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
93	(R)	-	**English walnut**	*Juglans regia*	3.5	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
94	(R)	-	**English walnut**	*Juglans regia*	2.2	-	6/4	Poor	Poor	Fair	30%	-	History of limb loss, dead wood observed.
95	(R)	-	**English walnut**	*Juglans regia*	1.0	-	5/2	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
96	(R)	-	**English walnut**	*Juglans regia*	1.0	-	5/2	Fair	Good	Good	70%	-	Young orchard tree, recently planted.

TREE INVENTORY SURVEY

Tree Tag #	Preserve or Remove	Protected Tree	Common Name	Scientific Name	Trunk (in.)	If more than 1 Trunk, Total Diameter	Height (ft.) / Canopy Spread (ft.)	Health Rating	Structural Rating	Form Rating	Overall Condition (0-100%)	Number of Replacement Trees (24" box)	Summary
97	(R)	-	**English walnut**	*Juglans regia*	7.5	-	14/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
98	(R)	-	**English walnut**	*Juglans regia*	5.2-4.5	9.7	12/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
99	(R)	-	**English walnut**	*Juglans regia*	2.3	-	10/8	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
100	(R)	-	**English walnut**	*Juglans regia*	2.2	-	6/4	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
101	(R)	-	**English walnut**	*Juglans regia*	7.0	-	14/14	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
102	(R)	-	**English walnut**	*Juglans regia*	6.3	-	12/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
103	(R)	-	**English walnut**	*Juglans regia*	5.3	-	14/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
104	(R)	-	**English walnut**	*Juglans regia*	2-2-2	6	10/6	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
105	(R)	-	**English walnut**	*Juglans regia*	2.2	-	8/5	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
106	(R)	-	**English walnut**	*Juglans regia*	2-2-2	6	10/6	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
107	(R)	-	**English walnut**	*Juglans regia*	3.6	-	10/6	Poor	Poor	Poor	0%	-	**DEAD**
108	(R)	-	**English walnut**	*Juglans regia*	3.0	-	10/6	Fair	Fair	Fair	50%	-	Damage to trunk.
109	(R)	-	**English walnut**	*Juglans regia*	5.7	-	10/10	Poor	Poor	Fair	30%	-	Dead wood, limb loss, in decline.
110	(R)	-	**English walnut**	*Juglans regia*	6.2	-	12/10	Poor	Poor	Poor	0%	-	**DEAD**
111	(R)	-	**English walnut**	*Juglans regia*	9.1	-	14/12	Poor	Poor	Poor	30%	-	Codominant at 6' with actively splitting union.
112	(R)	-	**English walnut**	*Juglans regia*	1.0	-	6/3	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
113	(R)	-	**English walnut**	*Juglans regia*	6.5	-	12/10	Poor	Poor	Fair	30%	-	Failed limbs with associated decay
114	(R)	-	**English walnut**	*Juglans regia*	2.0	-	8/6	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
115	(R)	-	**English walnut**	*Juglans regia*	1.0	-	6/2	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
116	(R)	-	**English walnut**	*Juglans regia*	1.0	-	5/2	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
117	(R)	-	**English walnut**	*Juglans regia*	0.5	-	4/1	Poor	Poor	Poor	30%	-	In decline.
118	(R)	-	**English walnut**	*Juglans regia*	4-4	8	12/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
119	(R)	-	**English walnut**	*Juglans regia*	2.0	-	8/5	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
120	(R)	-	**English walnut**	*Juglans regia*	4.0	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production

TREE INVENTORY SURVEY

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121	(R)	-	**English walnut**	*Juglans regia*	1.0	-	6/5	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
122	(R)	-	**English walnut**	*Juglans regia*	3.4	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
123	(R)	-	**English walnut**	*Juglans regia*	1.5	-	4-Jun	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
124	(R)	-	**English walnut**	*Juglans regia*	1.5	-	7/5	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
125	(R)	-	**English walnut**	*Juglans regia*	1.2	-	8/4	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
126	(R)	-	**English walnut**	*Juglans regia*	5.8	-	10/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
127	(R)	-	**English walnut**	*Juglans regia*	2-3	5	10/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
128	(R)	-	**English walnut**	*Juglans regia*	4.0	-	12/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
129	(R)	-	**English walnut**	*Juglans regia*	3.5-2.5	6	10/10	Poor	Poor	Poor	30%	-	In decline.
130	(R)	-	**English walnut**	*Juglans regia*	2-2-1	5	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
131	(R)	-	**English walnut**	*Juglans regia*	1.0	-	5/3	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
132	(R)	-	**English walnut**	*Juglans regia*	2.5	-	10/5	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
133	(R)	-	**English walnut**	*Juglans regia*	1.5	-	6/3	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
134	(R)	-	**English walnut**	*Juglans regia*	1.5	-	6/3	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
135	(R)	-	**English walnut**	*Juglans regia*	1.5	-	6/3	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
136	(R)	-	**English walnut**	*Juglans regia*	1.5	-	10/6	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
137	(R)	-	**English walnut**	*Juglans regia*	2.2	-	7/5	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
138	(R)	-	**English walnut**	*Juglans regia*	5.5	-	12/10	Poor	Poor	Poor	0%	-	**DEAD**
139	(R)	-	**English walnut**	*Juglans regia*	2-2-2	6	8/7	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
140	(R)	-	**English walnut**	*Juglans regia*	2	-	8/5	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
141	(R)	-	**English walnut**	*Juglans regia*	4-3.5	7.5	15/15	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
142	(R)	-	**English walnut**	*Juglans regia*	6.0	-	12/12	Poor	Poor	Poor	10%	-	Nearly dead.
143	(R)	-	**English walnut**	*Juglans regia*	4.1	-	10/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
144	(R)	-	**English walnut**	*Juglans regia*	5.5	-	12/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production

TREE INVENTORY SURVEY

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145	(R)	-	**English walnut**	*Juglans regia*	1.0	-	5/2	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
146	(R)	-	**English walnut**	*Juglans regia*	1.0	-	5/2	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
147	(R)	-	**English walnut**	*Juglans regia*	4.8	-	14/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
148	(R)	-	**English walnut**	*Juglans regia*	1.0	-	5/1	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
149	(R)	-	**English walnut**	*Juglans regia*	1.0	-	5/1	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
150	(R)	-	**English walnut**	*Juglans regia*	2.0	-	8/5	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
151	(R)	-	**English walnut**	*Juglans regia*	2.0	-	8/5	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
152	(R)	-	**English walnut**	*Juglans regia*	2.5	-	7/4	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
153	(R)	-	**English walnut**	*Juglans regia*	8.2	-	13/15	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
154	(R)	-	**English walnut**	*Juglans regia*	4.5	-	10/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
155	(R)	-	**English walnut**	*Juglans regia*	7.5	-	15/12	Fair	Poor	Fair	45%	-	Decay at root crown
156	(R)	-	**English walnut**	*Juglans regia*	1.0	-	6/3	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
157	(R)	-	**English walnut**	*Juglans regia*	1.2	-	10/6	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
158	(R)	-	**English walnut**	*Juglans regia*	1.2	-	7/5	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
159	(R)	-	**English walnut**	*Juglans regia*	3.5	-	3/0	Poor	Poor	Poor	0%	-	**DEAD, standing stump**
160	(R)	-	**English walnut**	*Juglans regia*	3-3-3	9	12/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
161	(R)	-	**English walnut**	*Juglans regia*	6.2	-	12/12	Poor	Poor	Poor	0%	-	**DEAD**
162	(R)	-	**English walnut**	*Juglans regia*	2.0	-	8/4	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
163	(R)	-	**English walnut**	*Juglans regia*	2.0	-	8/4	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
164	(R)	-	**English walnut**	*Juglans regia*	9.5	-	15/15	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
165	(R)	-	**English walnut**	*Juglans regia*	4.0	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
166	(R)	-	**English walnut**	*Juglans regia*	3.5	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
167	(R)	-	**English walnut**	*Juglans regia*	1.0	-	6/3	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
168	(R)	-	**English walnut**	*Juglans regia*	1.0	-	6/3	Fair	Good	Good	70%	-	Young orchard tree, recently planted.

TREE INVENTORY SURVEY

Tree Tag #	Preserve or Remove	Protected Tree	Common Name	Scientific Name	Trunk (in.)	If more than 1 Trunk, Total Diameter	Height (ft.) / Canopy Spread (ft.)	Health Rating	Structural Rating	Form Rating	Overall Condition (0-100%)	Number of Replacement Trees (24" box)	Summary
169	(R)	-	**English walnut**	*Juglans regia*	5.2	-	14/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
170	(R)	-	**English walnut**	*Juglans regia*	1.2	-	6/3	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
171	(R)	-	**English walnut**	*Juglans regia*	7.0	-	12/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
172	(R)	-	**English walnut**	*Juglans regia*	8.2	-	14/14	Fair-poor	Fair	Fair	50%	-	Dead wood
173	(R)	-	**English walnut**	*Juglans regia*	1.0	-	6/2	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
174	(R)	-	**English walnut**	*Juglans regia*	3.0	-	10/6	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
175	(R)	-	**English walnut**	*Juglans regia*	4.0	-	14/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
176	(R)	-	**English walnut**	*Juglans regia*	1.0	-	10/3	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
177	(R)	-	**English walnut**	*Juglans regia*	4.5	-	12/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
178	(R)	-	**English walnut**	*Juglans regia*	6.8	-	14/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
179	(R)	-	**English walnut**	*Juglans regia*	2.5	-	10/8	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
180	(R)	-	**English walnut**	*Juglans regia*	8.6	-	15/15	Poor	Fair	Fair	40%	-	Dead wood.
181	(R)	-	**English walnut**	*Juglans regia*	2.5	-	6/4	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
182	(R)	-	**English walnut**	*Juglans regia*	2.5	-	6/4	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
183	(R)	-	**English walnut**	*Juglans regia*	2.5	-	6/4	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
184	(R)	-	**English walnut**	*Juglans regia*	7.5	-	15/15	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
185	(R)	-	**English walnut**	*Juglans regia*	7.7	-	14/14	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
186	(R)	-	**English walnut**	*Juglans regia*	1.0	-	6/3	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
187	(R)	-	**English walnut**	*Juglans regia*	4.9	-	12/10	Poor	Poor	Fair	30%	-	Decay at root crown, dead wood.
188	(R)	-	**English walnut**	*Juglans regia*	5.5	-	12/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
189	(R)	-	**English walnut**	*Juglans regia*	5.3	-	10/10	Poor	Poor	Poor	0%	-	**DEAD**
190	(R)	-	**English walnut**	*Juglans regia*	4-3.5	7.5	12/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
191	(R)	-	**English walnut**	*Juglans regia*	2.5	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
192	(R)	-	**English walnut**	*Juglans regia*	6.5	-	14/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production

TREE INVENTORY SURVEY

Tree Tag #	Preserve or Remove	Protected Tree	Common Name	Scientific Name	Trunk (in.)	If more than 1 Trunk, Total Diameter	Height (ft.) / Canopy Spread (ft.)	Health Rating	Structural Rating	Form Rating	Overall Condition (0-100%)	Number of Replacement Trees (24" box)	Summary
193	(R)	-	**English walnut**	*Juglans regia*	4.0	-	10/6	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
194	(R)	-	**English walnut**	*Juglans regia*	8.5	-	15/15	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
195	(R)	-	**English walnut**	*Juglans regia*	1.0	-	6/3	Fair	Good	Good	70%	-	Young orchard tree, recently planted.
196	(R)	-	**English walnut**	*Juglans regia*	3.5	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
197	(R)	-	**English walnut**	*Juglans regia*	3.5	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
198	(R)	-	**English walnut**	*Juglans regia*	3.5	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
199	(R)	-	**English walnut**	*Juglans regia*	3.5	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
200	(R)	-	**English walnut**	*Juglans regia*	5.0	-	12/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
201	(R)	-	**English walnut**	*Juglans regia*	1.5	-	8/5	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
202	(R)	-	**English walnut**	*Juglans regia*	4.0	-	12/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
203	(R)	-	**English walnut**	*Juglans regia*	3.0	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
204	(R)	-	**English walnut**	*Juglans regia*	3.0	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
205	(R)	-	**English walnut**	*Juglans regia*	3.0	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
206	(R)	-	**English walnut**	*Juglans regia*	9.5	-	15/15	Poor	Poor	Fair	30%	-	Decay at codominant union
207	(R)	-	**English walnut**	*Juglans regia*	3.0	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
208	(R)	-	**English walnut**	*Juglans regia*	4.0	-	10/6	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
209	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
210	(R)	-	**English walnut**	*Juglans regia*	1.3	-	6/3	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
211	(R)	-	**English walnut**	*Juglans regia*	1.3	-	6/3	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
212	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
213	(R)	-	**English walnut**	*Juglans regia*	4.5	-	10/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
214	(R)	-	**English walnut**	*Juglans regia*	2.0	-	7/5	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
215	(R)	-	**English walnut**	*Juglans regia*	2.0	-	7/5	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
216	(R)	-	**English walnut**	*Juglans regia*	2.0	-	7/5	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production

TREE INVENTORY SURVEY

Tree Tag #	Preserve or Remove	Protected Tree	Common Name	Scientific Name	Trunk (in.)	If more than 1 Trunk, Total Diameter	Height (ft.) / Canopy Spread (ft.)	Health Rating	Structural Rating	Form Rating	Overall Condition (0-100%)	Number of Replacement Trees (24" box)	Summary
217	(R)	-	**English walnut**	*Juglans regia*	2.0	-	7/5	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
218	(R)	-	**English walnut**	*Juglans regia*	5.0	-	14/14	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
219	(R)	-	**English walnut**	*Juglans regia*	6.5	-	14/14	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
220	(R)	-	**English walnut**	*Juglans regia*	4.3	-	10/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
221	(R)	-	**English walnut**	*Juglans regia*	4.0	-	5/0	Poor	Poor	Poor	0%	-	**DEAD, Standing stump.**
222	(R)	-	**English walnut**	*Juglans regia*	9.0	-	15/15	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
223	(R)	-	**English walnut**	*Juglans regia*	3.0	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
224	(R)	-	**English walnut**	*Juglans regia*	3.0	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
225	(R)	-	**English walnut**	*Juglans regia*	2.5	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
226	(R)	-	**English walnut**	*Juglans regia*	1.5	-	7/5	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
227	(R)	-	**English walnut**	*Juglans regia*	11.7	-	15/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
228	(R)	-	**English walnut**	*Juglans regia*	4.1	-	10/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
229	(R)	-	**English walnut**	*Juglans regia*	4.4	-	12/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
230	(R)	-	**English walnut**	*Juglans regia*	1.0	-	5/2	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
231	(R)	-	**English walnut**	*Juglans regia*	1.0	-	5/2	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
232	(R)	-	**English walnut**	*Juglans regia*	7.0	-	10/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
233	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/5	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
234	(R)	-	**English walnut**	*Juglans regia*	14.8	-	20/20	Poor	Fair	Fair	50%	-	Dead wood
235	(R)	-	**English walnut**	*Juglans regia*	3.2	-	8/6	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
236	(R)	-	**English walnut**	*Juglans regia*	2.0	-	7/5	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
237	(R)	-	**English walnut**	*Juglans regia*	1.5	-	7/5	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
238	(R)	-	**English walnut**	*Juglans regia*	5.6	-	14/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
239	(R)	-	**English walnut**	*Juglans regia*	4.6	-	10/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
240	(R)	-	**English walnut**	*Juglans regia*	4.5	-	10/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production

TREE INVENTORY SURVEY

Tree Tag #	Preserve or Remove	Protected Tree	Common Name	Scientific Name	Trunk (in.)	If more than 1 Trunk, Total Diameter	Height (ft.) / Canopy Spread (ft.)	Health Rating	Structural Rating	Form Rating	Overall Condition (0-100%)	Number of Replacement Trees (24" box)	Summary
241	(R)	-	**English walnut**	*Juglans regia*	4.0	-	12/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
242	(R)	-	**English walnut**	*Juglans regia*	3.8	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
243	(R)	-	**English walnut**	*Juglans regia*	1.5	-	6/3	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
244	(R)	-	**English walnut**	*Juglans regia*	1.5	-	6/3	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
245	(R)	-	**English walnut**	*Juglans regia*	1.5	-	6/3	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
246	(R)	-	**English walnut**	*Juglans regia*	8.0	-	16/15	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
247	(R)	-	**English walnut**	*Juglans regia*	1.0	-	6/3	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
248	(R)	-	**English walnut**	*Juglans regia*	2.2	-	8/7	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
249	(R)	-	**English walnut**	*Juglans regia*	3.2	-	10/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
250	(R)	-	**English walnut**	*Juglans regia*	6.3	-	14/14	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
251	(R)	-	**English walnut**	*Juglans regia*	3.9	-	8/7	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
252	(R)	-	**English walnut**	*Juglans regia*	8.3	-	16/15	Fair	Poor	Fair	40%	-	Decay at root crown
253	(R)	-	**English walnut**	*Juglans regia*	3.2	-	10/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
253A	(R)	-	**English walnut**	*Juglans regia*	3.2	-	10/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
254	(R)	-	**English walnut**	*Juglans regia*	1.5	-	8/5	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
255	(R)	-	**English walnut**	*Juglans regia*	5.7	-	12/12	Poor	Fair	Fair	45%	-	Dead wood
256	(R)	-	**English walnut**	*Juglans regia*	2.1	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
257	(R)	-	**English walnut**	*Juglans regia*	7.0	-	14/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
258	(R)	-	**English walnut**	*Juglans regia*	2.5	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
259	(R)	-	**English walnut**	*Juglans regia*	6.0	-	12/12	Fair	Fair	Fair	45%	-	Decay on trunk.
260	(R)	-	**English walnut**	*Juglans regia*	3.0	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
261	(R)	-	**English walnut**	*Juglans regia*	7.5	-	15/15	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
262	(R)	-	**English walnut**	*Juglans regia*	6.5	-	12/10	Poor	Poor	Poor	0%	-	**DEAD**
263	(R)	-	**English walnut**	*Juglans regia*	3.8	-	10/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production

TREE INVENTORY SURVEY

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264	(R)	-	**English walnut**	*Juglans regia*	1.2	-	7/4	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
265	(R)	-	**English walnut**	*Juglans regia*	1.2	-	7/4	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
266	(R)	-	**English walnut**	*Juglans regia*	1.2	-	7/4	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
267	(R)	-	**English walnut**	*Juglans regia*	3.0	-	10/3	Poor	Poor	Poor	0%	-	**DEAD**
268	(R)	-	**English walnut**	*Juglans regia*	4.2	-	10/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
269	(R)	-	**English walnut**	*Juglans regia*	4.5-4.5-4.5	13.5	14/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
270	(R)	-	**English walnut**	*Juglans regia*	2.5	-	6/6	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
271	(R)	-	**English walnut**	*Juglans regia*	1.0	-	5/1	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
272	(R)	-	**English walnut**	*Juglans regia*	2.5	-	12/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
273	(R)	-	**English walnut**	*Juglans regia*	4.0	-	10/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
274	(R)	-	**English walnut**	*Juglans regia*	1.0	-	6/4	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
275	(R)	-	**English walnut**	*Juglans regia*	1.0	-	6/4	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
276	(R)	-	**English walnut**	*Juglans regia*	2.5	-	12/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
277	(R)	-	**English walnut**	*Juglans regia*	1.0	-	7/3	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
278	(R)	-	**English walnut**	*Juglans regia*	1.0	-	7/3	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
279	(R)	-	**English walnut**	*Juglans regia*	12.0	-	20/20	Poor	Fair	Fair	45%	-	Dead wood
280	(R)	-	**English walnut**	*Juglans regia*	5.0	-	10/8	Poor	Poor	Poor	30%	-	Dead wood and decay at root crown
281	(R)	-	**English walnut**	*Juglans regia*	4.1	-	7/6	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
282	(R)	-	**English walnut**	*Juglans regia*	5.0	-	14/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
283	(R)	-	**English walnut**	*Juglans regia*	8.0	-	15/14	Poor	Fair	Fair	45%	-	Dead wood
284	(R)	-	**English walnut**	*Juglans regia*	4.0	-	12/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
285	(R)	-	**English walnut**	*Juglans regia*	2.0	-	8/6	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
286	(R)	-	**English walnut**	*Juglans regia*	5.6	-	14/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
287	(R)	-	**English walnut**	*Juglans regia*	5.4	-	12/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production

TREE INVENTORY SURVEY

Tree Tag #	Preserve or Remove	Protected Tree	Common Name	Scientific Name	Trunk (in.)	If more than 1 Trunk, Total Diameter	Height (ft.) / Canopy Spread (ft.)	Health Rating	Structural Rating	Form Rating	Overall Condition (0-100%)	Number of Replacement Trees (24" box)	Summary
288	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
289	(R)	-	**English walnut**	*Juglans regia*	6.5	-	14/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
290	(R)	-	**English walnut**	*Juglans regia*	1.2	-	6/4	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
291	(R)	-	**English walnut**	*Juglans regia*	6.2	-	12/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
292	(R)	-	**English walnut**	*Juglans regia*	4.5	-	14/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
293	(R)	-	**English walnut**	*Juglans regia*	4.2	-	10/10	Fair	Poor	Fair	45%	-	Decay at root crown
294	(R)	-	**English walnut**	*Juglans regia*	1.0	-	5/2	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
295	(R)	-	**English walnut**	*Juglans regia*	1.0	-	5/2	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
296	(R)	-	**English walnut**	*Juglans regia*	4.0	-	12/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
297	(R)	-	**English walnut**	*Juglans regia*	4.0	-	12/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
298	(R)	-	**English walnut**	*Juglans regia*	2.5	-	10/6	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
299	(R)	-	**English walnut**	*Juglans regia*	3.0	-	8/6	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
300	(R)	-	**English walnut**	*Juglans regia*	1.0	-	5/2	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
301	(R)	-	**English walnut**	*Juglans regia*	3.0	-	8/6	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
302	(R)	-	**English walnut**	*Juglans regia*	1.0	-	5/2	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
303	(R)	-	**English walnut**	*Juglans regia*	1.0	-	7/3	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
304	(R)	-	**English walnut**	*Juglans regia*	1.0	-	7/3	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
305	(R)	-	**English walnut**	*Juglans regia*	3.4	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
306	(R)	-	**English walnut**	*Juglans regia*	3.0	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
307	(R)	-	**English walnut**	*Juglans regia*	3.0	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
308	(R)	-	**English walnut**	*Juglans regia*	3.0	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
309	(R)	-	**English walnut**	*Juglans regia*	3.0	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
310	(R)	-	**English walnut**	*Juglans regia*	3.0	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
311	(R)	-	**English walnut**	*Juglans regia*	3.0	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production

TREE INVENTORY SURVEY

Tree Tag #	Preserve or Remove	Protected Tree	Common Name	Scientific Name	Trunk (in.)	If more than 1 Trunk, Total Diameter	Height (ft.) / Canopy Spread (ft.)	Health Rating	Structural Rating	Form Rating	Overall Condition (0-100%)	Number of Replacement Trees (24" box)	Summary
312	(R)	-	**English walnut**	*Juglans regia*	1.0	-	5/2	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
313	(R)	-	**English walnut**	*Juglans regia*	6-6.5	12.5	20/20	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
314	(R)	-	**English walnut**	*Juglans regia*	4.3	-	14/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
315	(R)	-	**English walnut**	*Juglans regia*	4-4-4	12	14/14	Poor	Fair	Fair	45%	-	Dead wood
316	(R)	-	**English walnut**	*Juglans regia*	4.0	-	12/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
317	(R)	-	**English walnut**	*Juglans regia*	1.0	-	5/2	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
318	(R)	-	**English walnut**	*Juglans regia*	7.3	-	15/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
319	(R)	-	**English walnut**	*Juglans regia*	1.0	-	8/4	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
320	(R)	-	**English walnut**	*Juglans regia*	6.7	-	14/14	Fair	Good	Good	60%	-	Undermined by ground squirrels
321	(R)	-	**English walnut**	*Juglans regia*	13.2	-	20/20	Poor	Poor	Fair	45%	-	Large codominant leader failure in past
322	(R)	-	**English walnut**	*Juglans regia*	6.7	-	12/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
323	(R)	-	**English walnut**	*Juglans regia*	1.0	-	7/3	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
324	(R)	-	**English walnut**	*Juglans regia*	2.0	-	10/6	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
325	(R)	-	**English walnut**	*Juglans regia*	4.0	-	12/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
326	(R)	-	**English walnut**	*Juglans regia*	4.0	-	7/6	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
327	(R)	-	**English walnut**	*Juglans regia*	4.2	-	8/6	Poor	Poor	Fair	30%	-	In decline, decay at root crown.
328	(R)	-	**English walnut**	*Juglans regia*	1.5	-	7/4	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
329	(R)	-	**English walnut**	*Juglans regia*	4.0	-	10/6	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
330	(R)	-	**English walnut**	*Juglans regia*	2.0	-	10/5	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
331	(R)	-	**English walnut**	*Juglans regia*	2.0	-	7/6	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
332	(R)	-	**English walnut**	*Juglans regia*	1.0	-	6/3	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
333	(R)	-	**English walnut**	*Juglans regia*	3.0	-	10/8	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
334	(R)	-	**English walnut**	*Juglans regia*	6.3	-	14/12	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
335	(R)	-	**English walnut**	*Juglans regia*	5.0	-	12/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production

TREE INVENTORY SURVEY

Tree Tag #	Preserve or Remove	Protected Tree	Common Name	Scientific Name	Trunk (in.)	If more than 1 Trunk, Total Diameter	Height (ft.) / Canopy Spread (ft.)	Health Rating	Structural Rating	Form Rating	Overall Condition (0-100%)	Number of Replacement Trees (24" box)	Summary
336	(R)	-	**English walnut**	*Juglans regia*	4.0	-	12/10	Fair	Good	Good	70%	-	Orchard tree, well maintained for walnut production
337	(R)	-	**English walnut**	*Juglans regia*	13.3	-	15/20	Fair	Poor	Poor	20%	-	Decay at root crown
338	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
339	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
340	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
341	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
342	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
343	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
344	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
345	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
346	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
347	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
348	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
349	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
350	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
351	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
352	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
353	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
354	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
355	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
356	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
357	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
358	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
359	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.

TREE INVENTORY SURVEY

Tree Tag #	Preserve or Remove	Protected Tree	Common Name	Scientific Name	Trunk (in.)	If more than 1 Trunk, Total Diameter	Height (ft.) / Canopy Spread (ft.)	Health Rating	Structural Rating	Form Rating	Overall Condition (0-100%)	Number of Replacement Trees (24" box)	Summary
360	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
361	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
362	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
363	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
364	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
365	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
366	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
367	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
368	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
369	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
370	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
371	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
372	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
373	(R)	-	**English walnut**	*Juglans regia*	2.5	-	8/6	Fair	Good	Good	70%	-	Recently planted orchard tree.
374*	(P)	(P)	**Mulberry**	*Morus alba*	10.0	-	18/15	Fair	Poor	Fair	50%	-	Topped in past, 4' from property line.
375	(R)	(P)	**Coast live oak**	*Quercus agrifolia*	32.0	-	40/50	Good	Fair	Good	70%	**6**	Codominant at 10' with fair attachments, 10' from road, dense canopy, recommended minor crown reduction pruning. **LARGE PROTECTED TREE**

*** - Indicates a neighboring tree**

TREE MAP



*Figure not OCR compatible.

OBSERVATIONS

Species List:
Condition ratings and frequency of occurrence of trees at Oka Rd.

Common Name	Scientific Name	Condition			Total
		Poor	Fair	Good	
Coast live oak	*Quercus agrifolia*			1	**1**
English walnut	*Juglans regia*	22	22	330	**374**
Mulberry	*Morus alba*		1		**1**
Total		22	23	331	**376**

Trees Proposed For Removal:
375 trees are proposed for removal. Three of the trees that are proposed for removal are protected (#17, 64, 375). Coast live oak #375 to be removed is a "**large protected tree"** .

Total Removed Trees	Protected Trees	Large Protected Trees
375	2	1



Protected trees to be removed:
Tree Tag #375: Coast Live Oak (*Quercus agrifolia*)
This **Large Protected tree**, with a trunk diameter of 32 inches, stands 40 feet tall with a canopy spread of 50 feet. It is codominant at 10 feet with fair attachments and is situated 10 feet from the road. The tree has a dense canopy with heavy limbs and crown reduction pruning is recommended. This tree is within the footprint of the proposed construction area, making its removal necessary to facilitate the building project. Removal is recommended to prevent any risk to nearby infrastructure and to comply with safety standards outlined in the town ordinances, ensuring the construction can proceed safely and without obstructions. If the tree were to be retained, a construction off set distance of 26.6' from the tree (10x diameter) would be needed. This would make a new sidewalk impossible to build an likely would result in the loss of a unit. The proposed large protected tree removal matches the following criteria as noted in the town's ordinance: (1) The condition of the tree or trees with respect to: (a) disease, (b) imminent danger of falling, (c) structural failure, **(d) proximity to existing or proposed structures,** (e) structural damage to a building, or (f) a public nuisance caused by a tree. The International Society of Arboriculture (ISA) Best Management Practices for Tree Risk Assessment shall be used where appropriate in determining a Tree Risk Rating. (4)The

retention of the tree restricts the economic enjoyment of the property or creates an unusual hardship for the property owner by severely limiting the use of the property in a manner not typically experienced by owners of similarly situated properties, and the applicant has demonstrated to the satisfaction of the Director or deciding body that there are no reasonable alternatives to preserve the tree.

Tree Tag #17: English Walnut (*Juglans regia*)
This protected tree, with multiple trunks measuring 8, 4.8, and 7.2 inches in diameter, reaches a height of 20 feet with a canopy spread of 15 feet. Although it is well-maintained for walnut production, the orchard tree's proximity to proposed construction activities necessitates its removal. This action aligns with town ordinances to ensure safety and prevent any interference with construction work. Replacement with suitable species is planned as per the town's guidelines.

Tree Tag #64: English Walnut (*Juglans regia*)
This tree, with an 18.3-inch trunk diameter, stands 16 feet tall with a canopy spread of 16 feet. It is in severe decline with poor vigor, abundant dead wood, and a history of limb loss. Rated poor in health, structure, and form, the tree's removal is critical to prevent any potential hazards. This action complies with town ordinances for removing trees that pose a danger due to poor health and structural integrity. The replacement will follow the town's regulations to restore the ecological balance.

Non-Protected Trees to be Removed:
The 374 non-protected English Walnut trees (Juglans regia) listed in the inventory are to be removed. These trees, varying in trunk diameters from 1 to 16.1 inches and heights from 5 to 20 feet, are all maintained for walnut production within an orchard setting. Most of these trees are in fair to good health and structure, with a few in poor condition or already dead. The young orchard trees, recently planted, need to be removed to optimize space within the orchard and ensure better management practices. According to town ordinances, a permit is not required for the removal of fruit or nut trees with diameters less than 18 inches. Therefore, all these English Walnut trees qualify for removal under this exemption. Their removal is essential for effective orchard management and does not necessitate any special permits or additional approvals from the town. This bulk removal will facilitate the overall health and productivity of the orchard.

Replacement Tree Plan:
To comply with the town ordinances and ensure the continued ecological balance and aesthetic value of the area, we propose a comprehensive replacement plan for the three protected trees being removed. The plan includes the planting of suitable native species that align with the town's guidelines for tree replacement.

Tree Tag #375: Coast Live Oak *(Quercus agrifolia)*
Replacement Plan: This tree will be replaced with six (6) 24-inch box Coast Live Oaks (Quercus agrifolia). These trees will be strategically planted within the property to ensure optimal growth conditions and to restore the ecological benefits provided by the removed tree. Each replacement tree will be placed in locations that will not interfere with existing infrastructure or future construction plans.

Tree Tag #17: English Walnut *(Juglans regia)*
Replacement Plan: This tree will be replaced with three (3) 24-inch box native shade trees, such as Valley Oaks (Quercus lobata) or California Sycamores (Platanus racemosa). These species are chosen for their suitability to the local climate and their ability to provide substantial ecological benefits. The trees will be planted in designated areas that allow for their full mature growth potential, ensuring they do not impede future development.

Tree Tag #64: English Walnut *(Juglans regia)*
Replacement Plan: This tree, which is in poor health, will be replaced with three (3) 24-inch box native trees, such as Black Walnuts (Juglans hindsii) or California Buckeyes (Aesculus californica). These replacements are selected to

enhance biodiversity and provide long-term benefits to the local environment. The planting locations will be chosen to maximize the trees' chances of thriving without conflicting with existing or planned structures.

Additional Details:

- Planting Schedule: All replacement trees will be planted within six months of the removal of the protected trees, preferably during the appropriate planting season to ensure high survival rates.
- Maintenance Plan: Newly planted trees will receive regular watering, mulching, and protection from pests. A certified arborist will monitor their health and provide necessary care during the first two years to ensure successful establishment.
- Reporting: Progress reports will be submitted to the town's Parks and Public Works Department at regular intervals, detailing the health and growth of the replacement trees. Photos and site inspections will accompany these reports to verify compliance with the replacement plan.

This replacement plan not only adheres to the town's requirements but also contributes to the long-term sustainability and beauty of the urban forest, ensuring that the loss of mature trees is mitigated by the introduction of new, healthy ones.

Canopy Size of Removed Tree1	ReplacementRequirement2, 4	Single Family Residential Replacement Option3, 4
10 feet or less	Two 24-inch box trees	Two 15-gallon trees
More than 10 feet to 25 feet	Three 24-inch box trees	Three 15-gallon trees
More than 25 feet to 40 feet	Four 24-inch box trees; or Two 36-inch box trees	Four 15-gallon trees
More than 40 feet to 55 feet	Six 24-inch box trees; or Three 36-inch box trees	Not Available
Greater than 55 feet	Ten 24-inch box trees; or Five 36-inch box trees	Not Available

Showing Los Gatos Replacement Guide

PROJECT PLAN REVIEW

Plan Review for Oak Rd, Los Gatos (Plans titled Oak Rd from HMH dated 4/18/2024)
The plans for the Oak Rd site in Los Gatos propose the removal of all trees on-site, with only one neighboring tree, identified as tree #374*, potentially affected by the construction. However, this tree is located far enough from the proposed construction activities to remain unaffected. It will require Type 1 fencing for the project's duration, and no additional mitigation measures are necessary, ensuring that no other trees will be impacted by the proposed construction.

To minimize impacts when working within ten times the diameter of any preserved tree, it is crucial to follow specific excavation and root management practices. Excavation within the TPZ should be conducted by hand using tools such as an air knife, rotary hammer with clay spade attachment, or shovels, under the direct supervision of the Project Arborist. All roots encountered that are 1.5 inches in diameter or larger should be retained for inspection by the Project Arborist. After inspection, these roots should be cleanly cut using a hand saw or loppers. The cut ends on the tree side should be treated with a tree pruning sealer or grafting compound and covered with three layers of wetted-down burlap to prevent root desiccation. The burlap should be kept moist daily while exposed. Additionally, the area between the tree and the

foundation should be irrigated every other week during the dry season until the top foot of soil is saturated to mitigate minor impacts.

Prior to issuing associated demolition and building permits, a tree protection verification letter from the Project Arborist is required. This involves installing tree protection measures in compliance with the Arborist Report, followed by a visit from the Project Arborist to verify the measures, take photos, and prepare a verification letter for town Arborist review.

Following these guidelines and recommendations will minimize the impact on neighboring tree #374*, ensuring its health and longevity during and after the construction process on Oak Rd, Los Gatos.

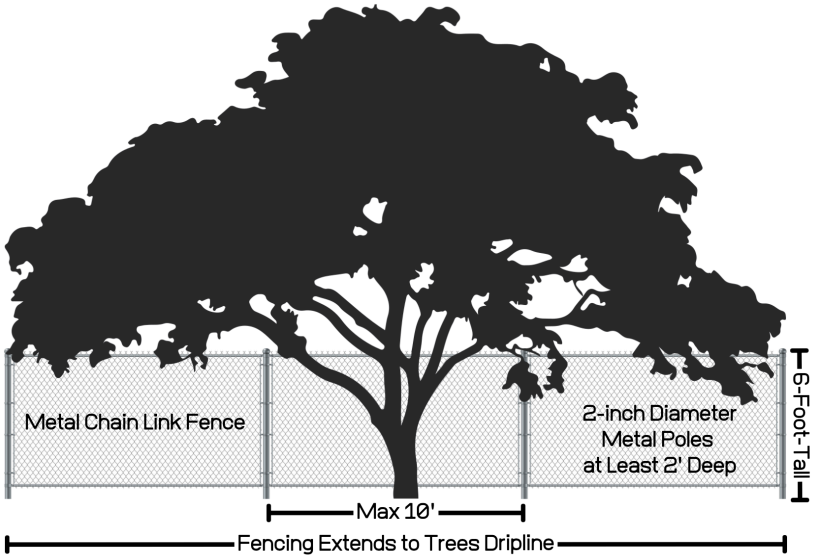
TREE PROTECTION PLAN

Detailed Tree Protection Plan
For the aforementioned tree protection plan, this detailed guide has been designed by Kielty Arborists Services LLC. The following section offers an in-depth perspective on the recommended tree preservation guidelines. The aim is to ensure the conservation, vitality, and beauty of trees during construction and developmental endeavors, mitigating any potential detrimental effects. Adherence to these guidelines is essential to uphold both the ecological significance and visual allure of trees within the designated project vicinity. Effective tree protection during construction or development projects requires the use of fencing to demarcate and protect sensitive areas around trees. Should you have any questions or require further clarification, please contact Kielty Arborists Services directly.

Fencing Specifications:
The tree protection fencing should be established and maintained throughout the entire length of the project. It's essential that no equipment, materials, or debris are stored or cleaned inside these protection zones. The zones should remain free from human activity unless explicitly authorized. The choice of fencing type depends on the tree's location and the nature of the surrounding environment.

Type I Tree Protection:
Description: This is the most comprehensive form of tree protection fencing. It encompasses the full canopy dripline or Tree Protection Zone (TPZ) of trees designated for preservation.
Application: Typically used in areas where trees are a significant distance away from construction activity or when trees have a large canopy spread.

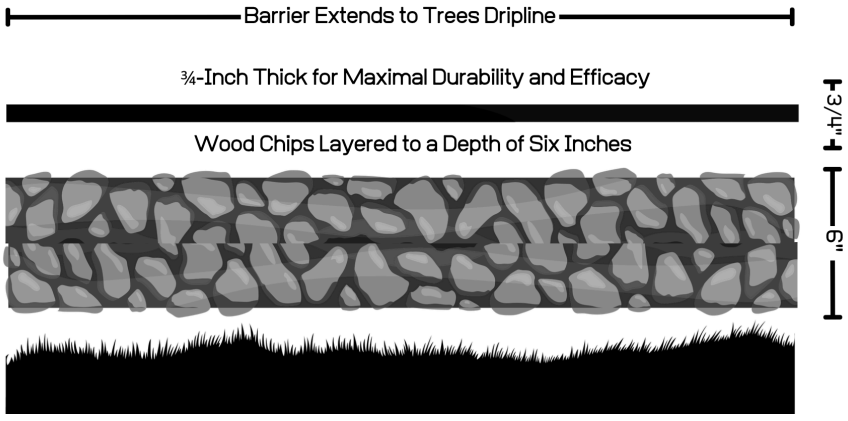
Specifications:
The fencing shall remain intact throughout the duration of the project or until activities within the TPZ are finalized. Tree protection fencing should be a 6-foot-tall metal chain link type supported by 2-inch thick diameter metal posts pounded into the ground to a depth of no less than 2 feet, ensuring stability even in challenging conditions. Poles should be spaced no more than 10 feet apart from center to center, providing a consistent and strong barrier. For trees near existing hardscapes or structures, tree protection fencing shall be placed as close as possible while still allowing access. Sensitive areas may require a landscape barrier if fencing needs to be reduced for access reasons. The location for tree protection fencing for the protected trees on site should be placed at 10x the tree diameters where possible (TPZ). All other non-protected trees are recommended to be protected by fencing placed at the drip line. No equipment or materials should be stored or cleaned inside protection zones. Signs should be placed on fencing signifying “Tree Protection Zone - Keep Out”. If fencing needs to be reduced for access or any other reasons, the non-protected areas must be protected by a landscape buffer. All tree protection and inspection schedule measures, design recommendations, watering, and construction schedules shall be implemented in full by the owner and contractor. Tree #374* is to be protected by Type I tree protection fencing.



Type I Fencing *Figure not OCR compatible.

Landscape Barrier Zone

If for any reason a smaller tree protection zone is needed for access, a landscape buffer should be used, composed of wood chips layered to a depth of six inches, complemented by plywood atop the wood chips where tree protection fencing would typically be situated. The plywood should be ¾-inch thick for maximal durability and efficacy. This landscape buffer plays a crucial role in mitigating soil compaction within the tree's vulnerable root zone. For optimum stability, it is advisable to securely join the plywood boards, thus preventing any unwanted shifts in the plywood or underlying wood chips.



Landscape Barrier Zone



TREE PROTECTION MAP - TYPE ONE FENCING IN PINK

*Figure not OCR compatible.

Staging

All tree protection measures must be in place before the start of construction. An inspection prior to the start of construction is often required by the town. All vehicles must remain on paved surfaces if possible. Existing pavement should remain and should be used for staging. If vehicles are to stray from paved surfaces, 6 inches of chips shall be spread, and plywood laid over the mulch layer. This type of landscape buffer will help reduce the compaction of desired trees. Parking will not be allowed off the paved surfaces

Root Cutting

If for any reason roots are to be cut, the work shall be monitored and documented. Large roots (over 2 inches in diameter) or large masses of roots to be cut must be inspected by the site arborist. The site arborist, at this time, may recommend irrigation or fertilization of the root zone. All roots needing to be cut should be cut clean with a saw or lopper. Roots to be left exposed for a period of time should be covered with layers of burlap and kept moist.

Trenching/excavation
Trenching or excavation for irrigation, drainage, electrical, foundation, or any other reason shall be done by hand when inside the dripline of a protected tree. Hand digging and the careful placement of pipes below or besides protected roots will significantly reduce root loss, thus reducing trauma to the tree. All trenches shall be backfilled with native materials and compacted to near their original level, as soon as possible. Trenches to be left open for a period of time (24 hours), will require the covering of all exposed roots with burlap and be kept moist. The trenches will also need to be covered with plywood to help protect the exposed roots.

Grading
All existing grades underneath the dripline of a protected tree shall remain as is where possible. Grading within the dripline of a protected tree is required to be done under the supervision of the project arborist.

Irrigation
Non native trees- Irrigating the retained mature trees in the landscape is important to ensure their health and vitality. Proper watering can help the trees continue to thrive. Deep irrigation is recommended to take place every other week during the dry season. During the dry season, trees typically need deep, infrequent watering. Watering every 2 weeks is sufficient for the retained trees on this site. Applying water slowly and consistently until it penetrates at least 12-18 inches into the soil is recommended. Avoid spraying water directly on the trunks, as this can lead to disease and decay. Mulch is recommended to be maintained with mulch added overtime as needed. Mulch helps retain soil moisture, regulates temperature, and prevents weeds, which can compete with the tree for water. The use of soaker hoses or an inline drip emitter system set up in a grid like manner to provide deep irrigation during the dry season is recommended. The irrigation system should be placed on top of grade and require no excavation. This will help to keep the trees healthy.

Native oak trees- Native oak trees are recommended to only be irrigated during the months of May and September or if their root zones are traumatized. Frequent irrigation during dry summer months can significantly raise the risk of oak trees developing oak root fungus disease and is the leading cause of oak tree death and failure in the urban landscape.

Tree Pruning
Tree pruning during construction is not just about aesthetics and safety; it's also about adhering to best practices and standards set by professional bodies like the International Society of Arboriculture (ISA) and the American National Standards Institute (ANSI A300 Pruning Standards) . The ISA sets rigorous standards to ensure trees are cared for sustainably and scientifically. Under these guidelines, and for the well-being of trees during construction, it's imperative to have an expert arborist oversee any pruning. Their knowledge guarantees that only the necessary branches are removed, ensuring both safety and tree health. The guideline to prune no more than 25% of the tree's total foliage is grounded in sound arboricultural practices. This safeguards the tree's photosynthetic capability, reduces undue stress, and preserves the balance between its roots and canopy. Homeowners should be aware of these standards and ensure they are being met, trusting in the expertise of their arborist and keeping open communication about their tree care decisions. This approach not only ensures the tree's compatibility with new construction aesthetics but also its long-term health and vitality.

Traffic Within TPZs
Strictly prohibit driving vehicles or heavy foot traffic on bare soil within the TPZs of protected trees. Such activities can crush roots directly and compact the soil, impeding oxygen and water infiltration. In areas without existing pavement, use temporary anti-compaction materials, such as wood chips covered with plywood, to prevent damage to tree roots (landscape barrier). Temporary pathways or boardwalks can be constructed to facilitate access while minimizing soil compaction within the TPZ.

Chemical and Material Handling
Store chemicals and construction materials away from TPZs to prevent accidental spills or exposure that may harm tree health. Follow proper handling and disposal procedures for chemicals to ensure compliance with environmental regulations. Minimize the use of toxic materials near trees and opt for environmentally friendly alternatives whenever possible.

Monitoring and Inspection
Regularly monitor and inspect the tree protection measures throughout the construction process to ensure their effectiveness and compliance with the Tree Preservation Plan. Assign a qualified individual, such as a project arborist or certified arborist, to conduct periodic inspections and provide recommendations for any necessary adjustments or improvements. Maintain detailed records of inspections, including dates, findings, and any actions taken.

Post-Construction Maintenance
After construction is completed, continue monitoring the health and condition of preserved trees to address any potential issues promptly. Implement post-construction maintenance practices such as watering, mulching, pruning, and fertilization as needed to support the recovery and long-term health of the trees. Regularly assess the trees for signs of stress, disease, or structural instability and take appropriate measures, including consulting with a certified arborist if necessary.

Compliance with Environmental Laws
Ensure full compliance with all applicable local, state, and federal environmental laws, regulations, and permit requirements pertaining to tree protection during construction. Familiarize yourself with specific regulations regarding tree preservation in your jurisdiction and consult with local authorities or arborists for guidance if needed.

Responsibility
Designate a responsible person or team within the project organization to oversee the implementation and enforcement of the Tree Preservation Plan. Clearly communicate the roles and responsibilities of all parties involved in the construction project regarding tree protection.

Emergency Procedures
Develop clear procedures to follow in the event of emergencies that may impact tree preservation, such as severe storms, accidents, or unexpected tree health issues. Ensure that emergency response plans address prompt actions to mitigate potential risks to trees and contact qualified professionals, such as arborists or tree care companies when needed.

Communication and Training
Facilitate effective communication among all project stakeholders, including contractors, subcontractors, architects, engineers, and landscape professionals, regarding the importance of tree preservation and the specific guidelines to follow. Conduct training sessions or workshops to educate personnel.

PURPOSE & USE OF THE REPORT

This report informs tree management decisions for the construction project and provides recommendations to maximize tree survival. It serves as a valuable resource for stakeholders, facilitating informed discussions and sustainable tree management practices.

TESTING & ANALYSIS

In order to assess the trees, a thorough examination was conducted using a variety of methods. For trees with accessible trunks, precise measurements of the Diameter at Breast Height (DBH) were taken using a specialized diameter tape

measure. In cases where the trunks were not readily accessible, visual estimations were employed to determine the DBH. As part of the inventory process, all trees exceeding a specific DBH threshold stated in town code were included.

To evaluate the health of the trees, multiple factors were considered, including their overall appearance and our team's extensive experiential knowledge of each species. This holistic approach ensured a comprehensive understanding of the tree's well-being.

To accurately document the location of each tree, a GPS smartphone application was utilized during the data collection process. This enabled us to create detailed maps that are included in this report. However, it is important to note that despite our efforts to minimize errors, inherent limitations of GPS data collection, coupled with slight discrepancies between GPS data and CAD drawings, may result in approximate tree locations depicted on the map.

TREE WORK STANDARDS AND QUALIFICATIONS

To ensure high-quality tree work, including removal, pruning, and planting, the following standards and qualifications will be adhered to:

- **Industry Standards**: All tree work will be performed in accordance with industry standards established by the International Society of Arboriculture (ISA). These standards encompass best practices and guidelines for tree care and maintenance.
- **Contractor Licensing and Insurance:** The contractor undertaking the tree work must possess a valid State of California Contractors License for Tree Service (C61-D49) or Landscaping (C-27). Additionally, they must have comprehensive general liability, worker's compensation, and commercial auto/equipment insurance coverage.
- **Workmanship Standards:** Contractors must adhere to the current Best Management Practices of the International Society of Arboriculture (ISA) and the American National Standards Institute (ANSI). These standards, including ANSI A300 and Z133.1, outline guidelines for tree pruning, fertilization, and safety. Compliance with these standards ensures the use of proper techniques and practices throughout the tree work process.

By adhering to these established standards and qualifications, we can ensure the provision of professional and safe tree services that meet the industry's best practices and promote the health and longevity of the trees.

SCHEDULE OF INSPECTIONS

Kielty Arborists Services LLC:

We will conduct the following inspections as needed for the project:

- **Pre-Equipment Mobilization, Delivery of Materials, Tree Removal, and Site Work:** Our project arborist will meet with the general contractor and owners to review tree protection measures. We will identify and mark tree-protection zone fencing, specify equipment access routes and storage areas, and assess the existing conditions of trees to determine any additional necessary protection measures.
- **Inspection after Installation of Tree-Protection Fencing:** Upon completion of tree-protection fencing installation, our project arborist will inspect the site to ensure that all protection measures are correctly implemented. We will also review any contractor requests for access within the tree protection zones and assess any changes in tree health since the previous inspection.
- **Inspection during Soil Excavation or Work Potentially Affecting Protected Trees:** During any work within non-intrusion zones of protected trees, our project arborist will inspect the site and document the implemented recommendations. We will assess any changes in tree health since the previous inspection to monitor the well-being of the trees.

- **Final Site Inspection:** Prior to project completion, our project arborist will conduct a final site inspection to evaluate tree health and provide necessary recommendations to promote their longevity. A comprehensive letter report summarizing our findings and conclusions will be provided to the town of Los Gatos.

Our inspections aim to ensure proper tree protection, health, and adherence to project requirements.

ASSUMPTIONS AND LIMITING CONDITIONS

- **Legal Descriptions and Titles:** The consultant/arborist assumes the accuracy of any legal description and titles provided. No responsibility is assumed for any legal due diligence. The consultant/arborist shall not be held liable for any discrepancies or issues arising from incorrect legal descriptions or faulty titles.
- **Compliance with Laws and Regulations:** The property is assumed to be in compliance with all applicable codes, ordinances, statutes, or other government regulations. The consultant/arborist is not responsible for identifying or rectifying any non-compliance.
- **Reliability of Information:** Though diligent efforts have been made to obtain and verify information, the consultant/arborist is not responsible for inaccuracies or incomplete data provided by external sources. The client accepts full responsibility for any decisions or actions taken based on this data.
- **Testimony or Court Attendance:** The consultant/arborist has no obligation to provide testimony or attend court regarding this report unless mutually agreed upon through separate written agreements, which may incur additional fees.
- **Report Integrity:** Unauthorized alteration, loss, or reproduction of this report renders it invalid. The consultant/arborist shall not be liable for any interpretations or conclusions made from altered reports.
- **Restricted Publication and Use:** This report is exclusively for the use of the original client. Any other use or dissemination, without prior written consent from the consultant/arborist, is strictly prohibited.
- **Non-disclosure to Public Media:** The client is prohibited from using any content of this report, including the consultant/arborist's identity, in any public communication without prior written consent.
- **Opinion-based Report:** The report represents the independent, professional judgment of the consultant/arborist. The fee is not contingent upon any predetermined outcomes, values, or events.
- **Visual Aids Limitation:** Visual aids are for illustrative purposes and should not be considered precise representations. They are not substitutes for formal engineering, architectural, or survey reports.
- **Inspection Limitations:** The consultant/arborist's inspection is limited to visible and accessible components. Non-invasive methods are used. There is no warranty or guarantee that problems will not develop in the future.

ARBORIST DISCLOSURE STATEMENT

Arborists specialize in the assessment and care of trees using their education, knowledge, training, and experience.

- **Limitations of Tree Assessment:** Arborists cannot guarantee the detection of all conditions that could compromise a tree’s structure or health. The consultant/arborist makes no warranties regarding the future condition of trees and shall not be liable for any incidents or damages resulting from tree failures.
- **Remedial Treatments Uncertainty:** Remedial treatments for trees have variable outcomes and cannot be guaranteed.
- **Considerations Beyond Scope:** The consultant/arborist's services are confined to tree assessment and care. The client assumes responsibility for matters involving property boundaries, ownership, disputes, and other non-arboricultural considerations.

- **Inherent Risks:** Living near trees inherently involves risks. The consultant/arborist is not responsible for any incidents or damages arising from such risks.
- **Client's Responsibility:** The client is responsible for considering the information and recommendations provided by the consultant/arborist and for any decisions made or actions taken.

The client acknowledges and accepts these Assumptions and Limiting Conditions and Arborist Disclosure Statement, recognizing that reliance upon this report is at their own risk. The consultant/arborist disclaims all warranties, express or implied.

CERTIFICATION

I hereby certify that all the statements of fact in this report are true, complete, and correct to the best of my knowledge and belief, and are made in good faith.

David Beckham

Signature of Consultant
David Beckham
Certified Arborist
WE#10724A TRAQ Qualified
June 28, 2024



December 12, 2024

Erin Walters
Community Development Department
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Summary and Assignment

I was asked to review the plans and the applicant's arborist report and provide findings and recommendations. I visited the site on December 12, 2024.

The arborist's report was provided by Kielty Arborist Services LLC dated June 28, 2024. The report contains some required information for the proposed project.

The site is comprised of an English walnut (*Juglans regia*) orchard. The report indicates two walnuts have a trunk diameter greater than eighteen inches along with one Large Protected coast live oak. The remaining trees are considered Exempt within the ordinance.

There is one discrepancy within the plans. Sheet C2.0 indicates the Large Protected coast live oak is to be retained. However the remaining plans and the arborist report (along with the expected impacts around the tree based on my review) indicate the tree is to be removed.

The only deficiency within the report and assessment is no "numbered metal tags" were placed on the trees for reference in the field. However, based on the nature of the proposed plans I am not recommending returning to the site to accomplish this task because it would be frivolous at this point considering all the trees are to be removed.

The report provides recommendations for replacement trees and the applicant should replace the trees according to the ordinance requirements as indicated in Sec. 29.10.0985. Determination and conditions of permit. Table 3-1.

Qualifications, Assumptions, and Limiting Conditions

Any legal description provided to the consultant is assumed to be correct. Any titles or ownership of properties are assumed to be good and marketable. All property is appraised or evaluated as though free and clear, under responsible ownership and competent management.

All property is presumed to be in conformance with applicable codes, ordinances, statutes, or other regulations.

Care has been taken to obtain information from reliable sources. However, the consultant cannot be responsible for the accuracy of information provided by others.

The consultant shall not be required to give testimony or attend meetings, hearings, conferences, mediations, arbitration, or trials by reason of this report unless subsequent contractual arrangements are made, including payment of an additional fee for such services.

This report and any appraisal value expressed herein represent the opinion of the consultant, and the consultant's fee is not contingent upon the reporting of a specified appraisal value, a stipulated result, or the occurrence of a subsequent event.

Sketches, drawings, and photographs in this report are intended for use as visual aids, are not necessarily to scale, and should not be construed as engineering or architectural reports or surveys. The reproduction of information generated by architects, engineers, or other consultants on any sketches, drawings, or photographs is only for coordination and ease of reference. Inclusion of said information with any drawings or other documents does not constitute a representation as to the sufficiency or accuracy of said information.

Unless otherwise expressed: a) this report covers only examined items and their condition at the time of inspection; and b) the inspection is limited to visual examination of accessible items without dissection, excavation, probing, or coring. There is no warranty or guarantee, expressed or implied, that structural problems or deficiencies of plants or property may not arise in the future.

Certification of Performance

I Richard Gessner, Certify:

That I have personally inspected the tree(s) and/or the property referred to in this report, and have stated my findings accurately. The extent of the evaluation and/or appraisal is stated in the attached report and Terms of Assignment;

That I have no current or prospective interest in the vegetation or the property that is the subject of this report, and I have no personal interest or bias with respect to the parties involved;

That the analysis, opinions and conclusions stated herein are my own;

That my analysis, opinions, and conclusions were developed and this report has been prepared according to commonly accepted Arboricultural practices;

That no one provided significant professional assistance to the consultant, except as indicated within the report.

That my compensation is not contingent upon the reporting of a predetermined conclusion that favors the cause of the client or any other party, nor upon the results of the assessment, the attainment of stipulated results, or the occurrence of any other subsequent events;

I further certify that I am a Registered Consulting Arborist® with the American Society of Consulting Arborists, and that I acknowledge, accept and adhere to the ASCA Standards of Professional Practice. I am an International Society of Arboriculture Board Certified Master Arborist®. I have been involved with the practice of Arboriculture and the care and study of trees since 1998.

Richard J. Gessner 

ASCA Registered Consulting Arborist® #496
ISA Board Certified Master Arborist® WE-4341B

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To:	Erin Walters	**Date:**	10/17/2024
From:	HMH, Urban Catalyst, Dahlin, Giacalone	**Job No.:**	6843.00
Subject:	Responses to 14789 Oka Road - Arborist Peer Review 12-16-24		

Summary and Assignment

I was asked to review the plans and the applicant's arborist report and provide findings and recommendations. I visited the site on December 12, 2024.

The arborist's report was provided by Kielty Arborist Services LLC dated June 28, 2024. The report contains some required information for the proposed project.

The site is comprised of an English walnut (*Juglans regia*) orchard. The report indicates two walnuts have a trunk diameter greater than eighteen inches along with one Large Protected coast live oak. The remaining trees are considered Exempt within the ordinance.

There is one discrepancy within the plans. Sheet C2.0 indicates the Large Protected coast live oak is to be retained. However the remaining plans and the arborist report (along with the expected impacts around the tree based on my review) indicate the tree is to be removed.
Response: Sheet C2.0 has been updated to remove the Large Protected Coast Live Oak in consistency with the remaining plans and arborist report.

The only deficiency within the report and assessment is no "numbered metal tags" were placed on the trees for reference in the field. However, based on the nature of the proposed plans I am not recommending returning to the site to accomplish this task because it would be frivolous at this point considering all the trees are to be removed.

The report provides recommendations for replacement trees and the applicant should replace the trees according to the ordinance requirements as indicated in Sec. 29.10.0985. Determination and conditions of permit. Table 3-1.

APPENDIX E

GEOTECHNICAL INVESTIGATION

CORNERSTONE EARTH GROUP

TYPE OF SERVICES	Geotechnical Investigation
PROJECT NAME	Oka Road Residential
LOCATION	Oka Road and Lark Avenue Los Gatos, California
CLIENT	Urban Catalyst
PROJECT NUMBER	1109-5-2
DATE	February 25, 2025 (revised)



CORNERSTONE EARTH GROUP

Type of Services	**Geotechnical Investigation**
Project Name	**Oka Road Residential**
Location	**Oka Road and Lark Avenue Los Gatos, California**
Client	**Urban Catalyst**
Client Address	**99 Almaden Blvd, Suite 840 San Jose, California**
Project Number	**1109-5-2**
Date	**February 25, 2025 (revised)**

Prepared by

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APPENDIX C: LIQUEFACTION ANALYSES CALCULATIONS

Type of Services	**Geotechnical Investigation**
Project Name	**Oka Road Residential**
Location	**Oka Road and Lark Avenue** **Los Gatos, California**

SECTION 1: INTRODUCTION

This geotechnical report was prepared for the sole use of Urban Catalyst for the Oka Road Residential project in Los Gatos, California. The location of the site is shown on the Vicinity Map, Figure 1. For our use, we were provided with the following documents:

- A set of preliminary plans titled "SB330 Preliminary Application for Oka Road, Los Gatos," prepared by HMH Engineers, dated April 18 and 26, 2024.
- An ALTA Survey titled "ALTA/NSPS Land Title Survey, Oka Lane, Los Gatos, CA," prepared by HMH Engineers, dated June 20, 2024.
- A set of plans titled "Architecture & Site Review and Tentative Map, 14789 Oka Road: S-24-052, U-24-016, M-24-017," prepared by HMH Engineers, dated September 13, 2024.

1.1 PROJECT DESCRIPTION

The project will consist of redeveloping the approximately 6¾-acre site for a multi-family residential development. Based on our review of the plans provided, the new development will consist of 18 townhome buildings. Each building has 7 to 8 units for a total of 138 planned units. The development will include a mix of affordable and market rate condominiums. The proposed residential buildings will be three stories with parking on the ground level and will likely be of wood-frame construction. New interior access roads are also planned. Appurtenant utilities, landscaping, and other improvements necessary for site development are also planned.

Structural loads are not currently known for the proposed structures; however, structural loads are expected to be typical of similar-type structures. Grading plans are not available at this time; however, we assume grading will consist of cuts and fills on the order of 1 to 3 feet.

1.2 SCOPE OF SERVICES

Our scope of services was presented in our proposal dated June 7, 2024, and consisted of field and laboratory programs to evaluate physical and engineering properties of the subsurface soils, engineering analysis to prepare recommendations for site work and grading, building foundations, flatwork, retaining walls, and pavements, and preparation of this report. Brief descriptions of our exploration and laboratory programs are presented below.

1.3 EXPLORATION PROGRAM

Field exploration consisted of three borings drilled on August 16, 2024 with truck-mounted, hollow-stem auger drilling equipment and five Cone Penetration Tests (CPTs) advanced on August 12, 2024. The borings were drilled to depths of 20 to 45 feet; the CPTs were advanced to depths of 13 to 47¼ feet, where drilling refusal occurred. Seismic shear wave velocity measurements were collected from CPT-1 through CPT-5. Borings EB-1 through EB-3 were advanced adjacent to CPT-1, CPT-2, and CPT-4, respectively, for direct evaluation of physical samples to correlated soil behavior. The borings and CPTs were backfilled with cement grout in accordance with local requirements; exploration permits were obtained as required by local jurisdictions.

The approximate locations of our exploratory borings are shown on the Site Plan, Figure 2. Details regarding our field program are included in Appendix A.

1.4 LABORATORY TESTING PROGRAM

In addition to visual classification of samples, the laboratory program focused on obtaining data for foundation design and seismic ground deformation estimates. Testing included moisture contents, dry densities, washed sieve analyses, and a Plasticity Index test. Details regarding our laboratory program are included in Appendix B.

1.5 CORROSION EVALUATION

Three samples from our borings from depths of 1 to 5 feet were tested for saturated resistivity, pH, and soluble sulfates and chlorides. In general, the on-site soils can be characterized as moderately corrosive to buried metal, and non-corrosive to buried concrete. Please refer to Section 3 for further information.

1.6 ENVIRONMENTAL SERVICES

Environmental services were not requested for this project. If environmental concerns are determined to be present during future evaluations, the project environmental consultant should review our geotechnical recommendations for compatibility with the environmental concerns.

SECTION 2: REGIONAL SETTING

2.1 GEOLOGICAL SETTING

The site is located within the Santa Clara Valley, which is a broad alluvial plane between the Santa Cruz Mountains to the southwest and west, and the Diablo Range to the northeast. The San Andreas Fault system, including the Monte Vista-Shannon Fault, exists within the Santa Cruz Mountains and the Hayward and Calaveras Fault systems exist within the Diablo Range. Alluvial soil thicknesses in the area of the project site are mapped at less than 100 feet (Rogers & Williams, 1974).

2.2 REGIONAL SEISMICITY

While seismologists cannot predict earthquake events, geologists from the U.S. Geological Survey have recently updated (in 2015) earlier estimates from their 2014 Uniform California Earthquake Rupture Forecast (Version 3; UCERF3) publication. The estimated probability of one or more magnitude 6.7 earthquakes (the size of the destructive 1994 Northridge earthquake) expected to occur somewhere in the San Francisco Bay Area has been revised (increased) to 72 percent for the period 2014 to 2043 (Aagaard et al., 2016). The faults in the region with the highest estimated probability of generating damaging earthquakes between 2014 and 2043 are the Hayward (33%), Calaveras (26%), and San Andreas Faults (22%). In this 30-year period, the probability of an earthquake of magnitude 6.7 or larger occurring is 22 percent along the San Andreas Fault and 33 percent for the Hayward Fault.

The faults considered capable of generating significant earthquakes are generally associated with the well-defined areas of crustal movement, which trend northwesterly. The table below presents the State-considered active faults within 25 kilometers of the site.

Table 1: Approximate Fault Distances

Fault Name	Distance	
	(miles)	(kilometers)
Monte Vista-Shannon	0.7	1.1
San Andreas (1906)	5.4	8.7
Sargent	8.1	13.1
Zayante-Vergeles	11.5	18.5
Hayward (Southeast Extension)	11.9	19.2
Calaveras	14.7	23.6
Hayward (Total Length)	15.5	25.0

A regional fault map is presented as Figure 3, illustrating the relative distances of the site to significant fault zones.

SECTION 3: SITE CONDITIONS

3.1 SITE BACKGROUND

We reviewed historic aerial imagery provided online by Historic Aerials (historicaerials.com). A summary of pertinent surface changes at and near the site is as follows:

- 1948: The project site is an agricultural orchard and the Los Gatos Creek runs adjacent to the site along the northwest side.
- 1960: Oka Road and the adjacent residential development to the north of the project site appear to have been constructed by this time. No changes to the project site are observed.

- 1968: The adjacent commercial building to the south of the project has been constructed. No changes to the project site are observed.

- 1993-1998: The west end of the site appears to be undergoing regrading to construct the Los Gatos Creek Trail. No pertinent surface changes were observed since this image.

3.2 SURFACE DESCRIPTION

The approximately 6¾-acre site is located on Oka Road in Los Gatos, California. The site is bounded by a mobile home park to the north, Oka Road to the east, a school and community center to the south, and Fremont Court and the Los Gatos Creek to the west.

The site is currently occupied by an existing fruit orchard. A storm drain line runs along the north side of the site. The site appears to have been tilled in rows between the fruit trees and loose surficial soils were observed across the site. The site appears relatively level. Fremont court along the west side of the site appears to consist of a gravel road that was raised about 3 to 4 feet above the project site. Based on our review of the site history, this road appears to be part of a levee system for Los Gatos Creek.

3.3 SUBSURFACE CONDITIONS

Below the ground surface, our explorations EB-1, EB-2, CPT-1, CPT-2, and CPT-3 generally encountered loose to medium dense sands with variable amounts of clay to depths ranging from about 4½ to 11 feet below existing grades. Below the ground surface, our explorations EB-3, CPT-4, and CPT-5 generally encountered stiff to very stiff clays with varying amounts of silt and sand to depths of about 6 to 7 feet below existing grades. Below the loose to medium dense sands and clays, our explorations generally encountered interbedded layers of dense to very dense sands with variable amounts of silt, gravel, and clay down to the maximum exploration depth of 47¾ feet, where drilling refusal occurred.

3.3.1 Plasticity/Expansion Potential

We performed one Plasticity Index (PI) test on a representative sample. Test results were used to evaluate expansion potential of surficial soils. The surficial PI test resulted in a PI of 13, indicating low expansion potential to wetting and drying cycles.

3.3.2 In-Situ Moisture Contents

Laboratory testing indicated that the in-situ moisture contents within the upper 10 feet range from about 7 percent under to 4 percent over the estimated laboratory optimum moisture.

3.4 GROUNDWATER

Groundwater was inferred from a pore pressure dissipation test in CPT-1 at a depth of about 17½ feet. Our hollow-stem auger borings did not encountered groundwater; however, the borings were not left open but were immediately backfilled when the boring was completed. Based on our review of data from other sites within the vicinity, we anticipate groundwater depth to vary seasonally from about 20 feet to greater than 50 feet. Maps published by the California Geologic Survey (CGS, 2002) indicate historic high groundwater depth of less than 20 feet below the ground surface.

Based on the above, we recommend a design groundwater depth of 15 feet. Fluctuations in groundwater levels occur due to many factors including seasonal fluctuation, underground drainage patterns, regional fluctuations, and other factors.

3.5 CORROSION SCREENING

We tested three samples collected at depths of 1 to 5 feet for resistivity, pH, soluble sulfates, and chlorides. The laboratory test results are summarized in Table 2A.

Table 2A: Summary of Corrosion Test Results

Sample Location	Depth (feet)	Soil pH[1]	Resistivity[2] (ohm-cm)	Chloride[3] (mg/kg)	Sulfate[4,5] (mg/kg)
EB-2	1.0	7.1	2,976	3	20
EB-3	1.0	7.4	3,467	4	25
EB-3	5.0	7.3	3,620	6	27

Notes: [1]ASTM G51
[2]ASTM G57 - 100% saturation
[3]ASTM D3427/Cal 422 Modified
[4]ASTM D3427/Cal 417 Modified
[5]1 mg/kg = 0.0001 % by dry weight

Many factors can affect the corrosion potential of soil including moisture content, resistivity, permeability, and pH, as well as chloride and sulfate concentration. Typically, soil resistivity, which is a measurement of how easily electrical current flows through a medium (soil and/or

water), is the most influential factor. In addition to soil resistivity, chloride and sulfate ion concentrations, and pH also contribute to affecting corrosion potential.

3.5.1 Preliminary Soil Corrosion Screening

Based on the laboratory test results summarized in Table 2A and published correlations between resistivity and corrosion potential, the soils may be considered moderately corrosive to buried metallic improvements (Chaker and Palmer, 1989).

In accordance with the 2022 CBC Section 1904.1, alternative cementitious materials for different exposure categories and classes shall be determined in accordance with ACI 318-19 Table 19.3.1.1, Table R19.3.1, and Table 19.3.2.1. Based on the laboratory sulfate test results, a cement type restriction is not required, although, in our opinion, it is generally a good idea to include some sulfate resistance and to maintain a relatively low water-cement ratio. We have summarized applicable exposure categories and classes from ACI 318-19, Table 19.3.1.1 below in Table 2B.

Table 2B: ACI 318-19 Table 19.3.1.1 Exposure Categories and Classes

Freezing and Thawing (F)	Sulfate (S, soil)	In Contact with Water (W)	Corrosion Protection of Reinforcement (C)
F0[1]	S0[2]	W0[3]	C0[4]

1 (F0) “Concrete not exposed to freezing-and-thawing cycles” (ACI 318-14)
2 (S0) “Water soluble sulfate in soil, percent by mass” (ACI 318-14)
3 (W0) “Concrete dry in service” (ACI 318-14)
4 (C0) “Concrete dry or protected from moisture” (ACI 318-14)

We recommend the structural engineer and a corrosion engineer be retained to confirm the above information and provide additional recommendations, as needed.

SECTION 4: GEOLOGIC HAZARDS

4.1 FAULT SURFACE RUPTURE

As discussed above several significant faults are located within 25 kilometers of the site. The site is not located within a State-designated Alquist Priolo Earthquake Fault Zone, or a Santa Clara County Fault Hazard Zone. As shown in Figure 3, no known surface expression of fault traces is thought to cross the site; therefore, fault surface rupture hazard is not a significant geologic hazard at the site.

4.2 ESTIMATED GROUND SHAKING

Moderate to severe (design-level) earthquakes can cause strong ground shaking, which is the case for most sites within the Bay Area. A peak ground acceleration $(PGA)_M$ was estimated for analysis using a value equal to F_{PGA} x PGA, as allowed in the 2022 edition of the California

Building Code when an exception has been taken per ASCE 7-16, Section 11.4.8. For our liquefaction analysis we used a PGA_M of 1.12g.

4.3 LIQUEFACTION POTENTIAL

The site is within a State-designated Liquefaction Hazard Zone (CGS, San Jose West 7.5-Minute Quadrangle, 2001) as well as a Santa Clara County Liquefaction Hazard Zone (Santa Clara County, 2003). Our field and laboratory programs addressed this issue by testing and sampling potentially liquefiable layers to depths of 47½ feet (where our CPTs encountered drilling refusal), performing visual classification on sampled materials, evaluating CPT data, and performing various tests to further classify soil properties.

4.3.1 Background

During strong seismic shaking, cyclically induced stresses can cause increased pore pressures within the soil matrix that can result in liquefaction triggering, soil softening due to shear stress loss, potentially significant ground deformation due to settlement within sandy liquefiable layers as pore pressures dissipate, and/or flow failures in sloping ground or where open faces are present (lateral spreading) (NCEER 1998). Limited field and laboratory data is available regarding ground deformation due to settlement; however, in clean sand layers settlement on the order of 2 to 4 percent of the liquefied layer thickness can occur. Soils most susceptible to liquefaction are loose, non-cohesive soils that are saturated and are bedded with poor drainage, such as sand and silt layers bedded with a cohesive cap.

4.3.2 Analysis

As discussed in the “Subsurface” section above, several sand layers were encountered below the design groundwater depth of 15 feet. Following the liquefaction analysis framework in the 2008 monograph, *Soil Liquefaction During Earthquakes* (Idriss and Boulanger, 2008), incorporating updates in *CPT and SPT Based Liquefaction Triggering Procedures* (Boulanger and Idriss, 2014), and in accordance with CDMG Special Publication 117A guidelines (CDMG, 2008) for quantitative analysis, these layers were analyzed for liquefaction triggering and potential post-liquefaction settlement. These methods compare the ratio of the estimated cyclic shaking (Cyclic Stress Ratio - CSR) to the soil’s estimated resistance to cyclic shaking (Cyclic Resistance Ratio - CRR), providing a factor of safety against liquefaction triggering. Factors of safety less than or equal to 1.3 are considered to be potentially liquefiable and capable of post-liquefaction re-consolidation (i.e. settlement).

The CSR for each layer quantifies the stresses anticipated to be generated due to a design-level seismic event, is based on the peak horizontal acceleration generated at the ground surface discussed in the “Estimated Ground Shaking” section above, and is corrected for overburden and stress reduction factors as discussed in the procedure developed by Seed and Idriss (1971) and updated in the 2008 Idriss and Boulanger monograph.

The soil’s CRR is estimated from the in-situ measurements from CPTs and laboratory testing on samples retrieved from our borings. SPT “N” values obtained from hollow-stem auger borings

were not used in our analyses, as the "N" values obtained are less reliable in sands below groundwater. The tip pressures are corrected for effective overburden stresses, taking into consideration both the groundwater level at the time of exploration and the design groundwater level, and stress reduction versus depth factors. The CPT method utilizes the soil behavior type index (I_C) to estimate the plasticity of the layers.

The results of our CPT analyses (CPT-1 through CPT-5) are presented on Figures 4A through 4E of this report. Calculations for these CPTs are attached as Appendix C.

4.3.3 Summary

Our analyses indicate that several layers could potentially experience liquefaction triggering that could result in post-liquefaction total settlement at the ground surface ranging up to ¾-inch based on the Yoshimine (2006) method. As discussed in SP 117A, differential movement for level ground sites over deep soil sites will be up to about two-thirds of the total settlement between independent foundation elements. In our opinion, differential settlements are anticipated to be on the order of ½-inch over a horizontal distance of 30 feet.

4.3.4 Ground Deformation and Surficial Cracking Potential

The methods used to estimate liquefaction settlements assume that there is a sufficient cap of non-liquefiable material to prevent ground deformation or sand boils. For ground deformation to occur, the pore water pressure within the liquefiable soil layer will need to be great enough to break through the overlying non-liquefiable layer, which could cause significant ground deformation and settlement. The work of Youd and Garris (1995) indicates that the minimum 15-foot thick layer of non-liquefiable cap is sufficient to prevent ground deformation and significant surficial cracking; therefore, the above total settlement estimates are reasonable.

4.4 LATERAL SPREADING

Lateral spreading is horizontal/lateral ground movement of relatively flat-lying soil deposits towards a free face such as an excavation, channel, or open body of water; typically, lateral spreading is associated with liquefaction of one or more subsurface layers near the bottom of the exposed slope. As failure tends to propagate as block failures, it is difficult to analyze and estimate where the first tension crack will form.

The Los Gatos Creek runs along the western edge of the site (parallel to Fremont Court). Based on elevations provided by Google Earth, the channel bottom is at approximately Elevation 258 feet. Therefore, the channel bottom is approximately 7 to 9 feet deep relative to existing site grades within the lower portion of the site. As part of our liquefaction analyses, we calculated the Lateral Displacement Index (LDI) for potentially liquefiable layers based on methods presented in the 2008 monograph, *Soil Liquefaction During Earthquakes* (Idriss and Boulanger, 2008). LDI is a summation of the maximum shear strains versus depth, which is a measurement of the potential maximum displacement at that exploration location. Summations of the LDI values to a depth equal to twice the open face height were included. Estimated

displacements in the vicinity of CPT-1 through CPT-5 based on the LDI calculations are considered negligible.

We also reviewed the historical ground failure map presented in the Seismic Hazard Zone Report for the vicinity (CGS, San Jose West 7.5-Minute Quadrangle, 2002), which indicated no occurrences of lateral spread within the project vicinity. Therefore, in our opinion, the potential for lateral spreading to impact the project is relatively low.

4.5 SEISMIC SETTLEMENT/UNSATURATED SAND SHAKING

Loose unsaturated sandy soils can settle during strong seismic shaking. We evaluated the potential for seismic compaction of the loose to medium dense sands based on the work by Robertson and Shao (2010) and Pradel (1987). Our analyses indicate that the proposed buildings could experience on the order of about 1½ to 1⅔ inches of movement after strong seismic shaking on the northern half of the site (CPT-1/EB-1 and CPT-2/EB-2 where loose to medium dense sands were encountered in the upper 4 to 10 feet. Our analysis indicates that buildings could experience on the order of ⅔-inch or less on the southern half of the site (CPT-3, CPT-4/EB-3, and CPT-5). Please refer to the "Conclusions" section of this report for mitigation recommendations.

4.6 TSUNAMI/SEICHE

The terms tsunami or seiche are described as ocean waves or similar waves usually created by undersea fault movement or by a coastal or submerged landslide. Tsunamis may be generated at great distance from shore (far field events) or nearby (near field events). Waves are formed, as the displaced water moves to regain equilibrium, and radiates across the open water, similar to ripples from a rock being thrown into a pond. When the waveform reaches the coastline, it quickly raises the water level, with water velocities as high as 15 to 20 knots. The water mass, as well as vessels, vehicles, or other objects in its path create tremendous forces as they impact coastal structures.

Tsunamis have affected the coastline along the Pacific Northwest during historic times. The Fort Point tide gauge in San Francisco recorded approximately 21 tsunamis between 1854 and 1964. The 1964 Alaska earthquake generated a recorded wave height of 7.4 feet and drowned eleven people in Crescent City, California. For the case of a far-field event, the Bay area would have hours of warning; for a near field event, there may be only a few minutes of warning, if any.

A tsunami or seiche originating in the Pacific Ocean would lose much of its energy passing through San Francisco Bay. Based on the mapping of tsunami inundation potential for the San Francisco Bay Area by CGS (conservation.ca.gov/cgs/tsunami/maps), areas most likely to be inundated are marshlands, tidal flats, and former bay margin lands that are now artificially filled, but are still at or below sea level, and are generally within 1½ miles of the shoreline. The site is approximately 14 miles inland from the San Francisco Bay shoreline and is approximately 265 to 268 feet above mean sea level. In addition, the site is mapped by the State of California as

being outside a tsunami hazard area (CGS, 2021). Therefore, the potential for inundation due to tsunami or seiche is considered low.

4.7 FLOODING

Based on our internet search of the Federal Emergency Management Agency (FEMA) flood map public database, the site is located within Zone X, defined as "Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood." We recommend the project civil engineer be retained to confirm this information and verify the base flood elevation, if appropriate.

The Department of Water Resources (DWR), Division of Safety of Dams (DSOD) compiled a database of Dam Failure Inundation Hazard Maps (DSOD, 2015). The generalized hazard maps were prepared by dam owners as required by the State Office of Emergency Services; they are intended for planning purposes only. Based on our review of these maps, the site is located within a dam failure inundation area for the Austrian, James J. Lenihan, and Vasona Dams.

SECTION 5: CONCLUSIONS

5.1 SUMMARY

From a geotechnical viewpoint, the project is feasible provided the concerns listed below are addressed in the project design. Descriptions of each concern with brief outlines of our recommendations follow the listed concerns.

- Presence of loose, sandy soils and potential for seismic settlements
- Loose or disturbed surficial soils
- Soil corrosion potential

5.1.1 Presence of Loose, Sandy Soils and Potential for Seismic Settlements

As previously discussed, Borings EB-1 and EB-2 encountered loose to medium dense sands with varying amounts of silt and clay to depths of about 5 to 7 feet below existing grades. In addition, our CPT-1, CPT-2, CPT-3, and CPT-5 encountered loose to medium dense sands to depths of about 4½ to 11 feet below existing grades. Based on our analysis, these loose to medium dense sandy soils are susceptible to about 1½ to 1⅔ inches of dry sand settlement during a significant seismic event, primarily on the northern half of the site where these soils were encountered. To reduce the potential for significant seismic movements, we recommend the upper 2 to 4 feet be over-excavated and recompacted. Additional recommendations are provided in the "Earthwork" section below.

Additionally, our liquefaction analysis indicates that there is a potential for liquefaction of localized sand layers during a significant seismic event. Although the potential for liquefied

sands to vent to the ground surface through cracks in the surficial soils is low, our analysis indicates that liquefaction-induced settlement on the order of up to ¾-inch could occur, resulting in differential settlement up to ½-inch. Foundations should be designed to tolerate the anticipated total and differential settlements. Detailed foundation recommendations are presented in the "Foundations" section.

5.1.2 Loose or Disturbed Surficial Soil

Based on our borings and site observations, the upper 1 to 2 feet of the ground surface is expected to be loose or disturbed from tilling and other agricultural activities. In addition, we anticipate the removal of the existing orchard trees will cause additional disturbance and result in large voids where the root balls are currently present. If left in place, the surficial soils can settlement under new improvements including buildings and pavement areas. The surficial soil should be removed and replaced as engineered fill. Additional recommendations are provided in the "Earthwork" section below.

5.1.3 Soil Corrosion Potential

A preliminary soil corrosion screening was performed based on the results of analytical tests on samples of the near-surface soil. In general, the corrosion potential for buried concrete does not warrant the use of sulfate resistant concrete. In addition, the corrosion potential for buried metallic structures, such as metal pipes, is considered moderately corrosive. As the preliminary soil corrosion screening was based on the results of limited sampling, consideration may be given to collecting and testing additional samples from the upper 6 feet for sulfates and pH to confirm the classification of corrosive to mortar coated steel and concrete.

5.2 PLANS AND SPECIFICATIONS REVIEW

We recommend that we be retained to review the geotechnical aspects of the project structural, civil, and landscape plans and specifications, allowing sufficient time to provide the design team with any comments prior to issuing the plans for construction.

5.3 CONSTRUCTION OBSERVATION AND TESTING

As site conditions may vary significantly between the small-diameter borings performed during this investigation, we also recommend that a Cornerstone representative be present to provide geotechnical observation and testing during earthwork and foundation construction. This will allow us to form an opinion and prepare a letter at the end of construction regarding contractor compliance with project plans and specifications, and with the recommendations in our report. We will also be allowed to evaluate any conditions differing from those encountered during our investigation and provide supplemental recommendations as necessary. For these reasons, the recommendations in this report are contingent of Cornerstone providing observation and testing during construction. Contractors should provide at least a 48-hour notice when scheduling our field personnel.

SECTION 6: EARTHWORK

6.1 SITE DEMOLITION

All existing improvements not to be reused for the current development, including all foundations, flatwork, pavements, utilities, and other improvements should be demolished and removed from the site. Recommendations in this section apply to the removal of these improvements, which may be present on the site, prior to the start of mass grading or the construction of new improvements for the project.

Cornerstone should be notified prior to the start of demolition and should be present on at least a part-time basis during all backfill and mass grading as a result of demolition. Occasionally, other types of buried structures (wells, cisterns, debris pits, etc.) can be found on sites with prior development. If encountered, Cornerstone should be contacted to address these types of structures on a case-by-case basis.

6.1.1 Abandonment of Existing Utilities

All utilities should be completely removed from within planned building areas. For any utility line to be considered acceptable to remain within building areas, the utility line must be completely backfilled with grout or sand-cement slurry (sand slurry is not acceptable), the ends outside the building area capped with concrete, and the trench fills either removed and replaced as engineered fill with the trench side slopes flattened to at least 1:1, or the trench fills are determined not to be a risk to the structure. The assessment of the level of risk posed by the particular utility line will determine whether the utility may be abandoned in place or needs to be completely removed. The contractor should assume that all utilities will be removed from within building areas unless provided written confirmation from both the owner and the geotechnical engineer.

Utilities extending beyond the building area may be abandoned in place provided the ends are plugged with concrete, they do not conflict with planned improvements, and that the trench fills do not pose significant risk to the planned surface improvements.
The risk for owners associated with abandoning utilities in place include the potential for future differential settlement of existing trench fills, and/or partial collapse and potential ground loss into utility lines that are not completely filled with grout.

6.2 SITE CLEARING AND PREPARATION

6.2.1 Site Stripping

The site should be stripped of all surface vegetation, and surface and subsurface improvements to be removed within the proposed development area. Demolition of existing improvements is discussed in the prior paragraphs. Surface vegetation and topsoil should be stripped to a sufficient depth to remove all material greater than 3 percent organic content by weight.

6.2.2 Tree and Shrub Removal

Trees and shrubs designated for removal should have the root balls and any roots greater than ½-inch diameter removed completely. Mature trees are estimated to have root balls extending to depths of 2 to 4 feet, depending on the tree size. Significant root zones are anticipated to extend to the diameter of the tree canopy. Grade depressions resulting from root ball removal should be cleaned of loose material and backfilled in accordance with the recommendations in the "Compaction" section of this report.

6.3 OVER-EXCAVATION AND RECOMPACTION / LOOSE SURFICIAL SOIL MITIGATION

As noted in previous sections of this report, loose to medium dense sandy soils were encountered in the upper 4½ to 11 feet in our borings. Our analysis indicates that these soils have a potential for increased dry sand settlement during a seismic event. To reduce the potential for the above concerns, we recommend the upper 2 to 4 feet below existing grades be over-excavated and replaced as engineered fill. Over-excavation should extend to a lateral distance of at least 5 feet beyond the building footprint or to a lateral distance equal to the final over-excavation depth below the perimeter footing, whichever is greater. Once the over-excavation is completed, the excavation bottom should be scarified a minimum of 12 inches, moisture conditioned, and compacted. The minimum recommended performance specification for compaction of the base of the exposed over-excavation area should consist of a minimum of five overlapping passes with a heavy-duty, vibratory smooth drum roller (such as a Dynapac CA5000, Volvo SD160 or an approved equivalent) that will exert a minimum of 25,000 ft-lbs of energy. The above recommendations may need to be modified at the time of construction based on actual field conditions. In addition, the above recommendations for loose sandy soils will also likely mitigate the loose and disturbed surficial soils as discussed in the "Conclusions" section above.

Subgrade preparation and compaction should be performed in accordance with the following sections. If the over-excavated materials meet requirements in the "Materials for Fill" section, they can be reused as engineered fill. Backfill of the over-excavations should be placed in lifts and compacted in accordance with the following sections.

6.4 MITIGATION UNDOCUMENTED FILLS

While fills were not encountered in our borings, any undocumented fills encountered during site grading should be completely removed from within building areas and to a lateral distance of at least 5 feet beyond the building footprint or to a lateral distance equal to fill depth below the perimeter footing, whichever is greater. Provided the fills meet the "Material for Fill" requirements below, the fills may be reused when backfilling the excavations. If materials are encountered that do not meet the requirements, such as debris, wood, trash, those materials should be screened out of the remaining material and be removed from the site. Backfill of excavations should be placed in lifts and compacted in accordance with the "Compaction" section below.

Fills extending into planned pavement and flatwork areas may be left in place provided they are determined to be a low risk for future differential settlement and that the upper 12 to 18 inches of fill below pavement subgrade is re-worked and compacted as discussed in the “Compaction” section below.

6.5 TEMPORARY CUT AND FILL SLOPES

The contractor is responsible for maintaining all temporary slopes and providing temporary shoring where required. Temporary shoring, bracing, and cuts/fills should be performed in accordance with the strictest government safety standards. On a preliminary basis, the upper 10 feet at the site may be classified as OSHA Soil Type C materials.

Excavations performed during site demolition and fill removal should be sloped at 2:1 (horizontal:vertical) within the upper 5 feet below building subgrade. Actual excavation inclinations should be reviewed in the field during construction, as needed. Excavations below building subgrade and excavations in pavement and flatwork areas should be sloped in accordance with OSHA soil classification requirements.

6.6 SUBGRADE PREPARATION

After site clearing and demolition is complete, and prior to backfilling any excavations resulting from fill removal or demolition, the excavation subgrade and subgrade within areas to receive additional site fills, slabs-on-grade and/or pavements should be scarified to a depth of 6 inches, moisture conditioned, and compacted in accordance with the “Compaction” section below.

Due to the sandy soils likely to be encountered at the subgrade elevation, we recommend that subgrade compaction and proof rolling be performed within 24 hours of capillary break layer or slab-on-grade construction.

6.7 WET SOIL STABILIZATION GUIDELINES

Native soil and fill materials, especially soils with high fines contents such as clays and silty soils, can become unstable due to high moisture content, whether from high in-situ moisture contents or from winter rains. As the moisture content increases over the laboratory optimum, it becomes more likely the materials will be subject to softening and yielding (pumping) from construction loading or become unworkable during placement and compaction.
There are several methods to address potential unstable soil conditions and facilitate fill placement and trench backfill. Some of the methods are briefly discussed below. Implementation of the appropriate stabilization measures should be evaluated on a case-by-case basis according to the project construction goals and the site conditions.

6.7.1 Scarification and Drying

The subgrade may be scarified to a depth of 6 to 12 inches and allowed to dry to near optimum conditions, if sufficient dry weather is anticipated to allow sufficient drying. More than one round of scarification may be needed to break up the soil clods.

6.7.2 Removal and Replacement

As an alternative to scarification, the contractor may choose to over-excavate the unstable soils and replace them with dry on-site or import materials. A Cornerstone representative should be present to provide recommendations regarding the appropriate depth of over-excavation, whether a geosynthetic (stabilization fabric or geogrid) is recommended, and what materials are recommended for backfill.

6.7.3 Chemical Treatment

Where the unstable area exceeds about 5,000 to 10,000 square feet and/or site winterization is desired, chemical treatment with quicklime (CaO), kiln-dust, or cement may be more cost-effective than removal and replacement. Recommended chemical treatment depths will typically range from 12 to 18 inches depending on the magnitude of the instability.

6.8 MATERIAL FOR FILL

6.8.1 Re-Use of On-site Soils

On-site soils with an organic content less than 3 percent by weight may be reused as general fill. General fill should not have lumps, clods or cobble pieces larger than 6 inches in diameter; 85 percent of the fill should be smaller than 2½ inches in diameter. Minor amounts of oversize material (smaller than 12 inches in diameter) may be allowed provided the oversized pieces are not allowed to nest together and the compaction method will allow for loosely placed lifts not exceeding 12 inches.

6.8.2 Potential Import Sources

Non-expansive and import material should be inorganic with a Plasticity Index (PI) of 15 or less, and not contain recycled asphalt concrete where it will be used within the habitable building areas. To prevent significant caving during trenching or foundation construction, imported material should have sufficient fines. Samples of potential import sources should be delivered to our office at least 10 days prior to the desired import start date. Information regarding the import source should be provided, such as any site geotechnical reports. If the material will be derived from an excavation rather than a stockpile, potholes will likely be required to collect samples from throughout the depth of the planned cut that will be imported. At a minimum, laboratory testing will include PI tests. Material data sheets for select fill materials (Class 2 aggregate base, ¾-inch crushed rock, quarry fines, etc.) listing current laboratory testing data (not older than 6 months from the import date) may be provided for our review without providing a sample. If current data is not available, specification testing will need to be completed prior to approval.

Environmental and soil corrosion characterization should also be considered by the project team prior to acceptance. Suitable environmental laboratory data to the planned import quantity should be provided to the project environmental consultant; additional laboratory testing may be required based on the project environmental consultant's review. The potential import source

should also not be more corrosive than the on-site soils, based on pH, saturated resistivity, and soluble sulfate and chloride testing.

6.9 COMPACTION REQUIREMENTS

All fills, and subgrade areas where fill, slabs-on-grade, and pavements are planned, should be placed in loose lifts 8 inches thick or less and compacted in accordance with ASTM D1557 (latest version) requirements as shown in the table below. In general, clayey soils should be compacted with sheepsfoot equipment and sandy/gravelly soils with vibratory equipment; open-graded materials such as crushed rock should be placed in lifts no thicker than 18 inches and consolidated in place with vibratory equipment. Each lift of fill and all subgrade should be firm and unyielding under construction equipment loading in addition to meeting the compaction requirements to be approved. The contractor (with input from a Cornerstone representative) should evaluate the in-situ moisture conditions, as the use of vibratory equipment on soils with high moistures can cause unstable conditions. General recommendations for soil stabilization are provided in the "Wet Soil Stabilization Guidelines" section of this report.

Table 3: Compaction Requirements

Description	Material Description	Minimum Relative[1] Compaction (percent)	Moisture[2] Content (percent)
General Fill (within upper 5 feet)	On-Site Soils	90	>1
General Fill (below a depth of 5 feet)	On-Site Soils	95	>1
Trench Backfill	On-Site Soils	90	>1
Trench Backfill (upper 6 inches of subgrade)	On-Site Soils	95	>1
Crushed Rock Fill	¾-inch Clean Crushed Rock	Consolidate In-Place	NA
Non-Expansive Fill	Imported Non-Expansive Fill	90	Optimum
Flatwork Subgrade	On-Site Soils	90	>1
Flatwork Aggregate Base	Class 2 Aggregate Base[3]	90	Optimum
Pavement Subgrade	On-Site Soils	95	>1
Pavement Aggregate Base	Class 2 Aggregate Base[3]	95	Optimum
Asphalt Concrete	Asphalt Concrete	95 (Marshall)	NA

1 – Relative compaction based on maximum density determined by ASTM D1557 (latest version)
2 – Moisture content based on optimum moisture content determined by ASTM D1557 (latest version)
3 – Class 2 aggregate base shall conform to Caltrans Standard Specifications, latest edition, except that the relative compaction should be determined by ASTM D1557 (latest version)

6.10 TRENCH BACKFILL

Utility lines constructed within public right-of-way should be trenched, bedded and shaded, and backfilled in accordance with the local or governing jurisdictional requirements. Utility lines in

private improvement areas should be constructed in accordance with the following requirements unless superseded by other governing requirements.

All utility lines should be bedded and shaded to at least 6 inches over the top of the lines with crushed rock (⅜-inch-diameter or greater) or well-graded sand and gravel materials conforming to the pipe manufacturer's requirements. Open-graded shading materials should be consolidated in place with vibratory equipment and well-graded materials should be compacted to at least 90 percent relative compaction with vibratory equipment prior to placing subsequent backfill materials.

General backfill over shading materials may consist of on-site native materials provided they meet the requirements in the "Material for Fill" section, and are moisture conditioned and compacted in accordance with the requirements in the "Compaction" section.

Where utility lines will cross perpendicular to strip footings, the footing should be deepened to encase the utility line, providing sleeves or flexible cushions to protect the pipes from anticipated foundation settlement, or the utility lines should be backfilled to the bottom of footing with sand-cement slurry or lean concrete. Where utility lines will parallel footings and will extend below the "foundation plane of influence," an imaginary 1:1 plane projected down from the bottom edge of the footing, either the footing will need to be deepened so that the pipe is above the foundation plane of influence, or the utility trench will need to be backfilled with sand-cement slurry or lean concrete within the influence zone. Sand-cement slurry used within foundation influence zones should have a minimum compressive strength of 75 psi.

6.11 SITE DRAINAGE

6.11.1 Surface Drainage

Ponding should not be allowed adjacent to building foundations, slabs-on-grade, or pavements. Hardscape surfaces should slope at least 2 percent towards suitable discharge facilities; landscape areas should slope at least 3 percent to at least 10 feet from the structure. Roof runoff should be directed away from building areas in closed conduits, to approved infiltration facilities, or on to hardscaped surfaces that drain to suitable facilities. Retention, detention, or infiltration facilities should be spaced at least 10 feet from buildings, and preferably at least 5 feet from slabs-on-grade or pavements. However, if retention, detention, or infiltration facilities are located within these zones, we recommend that these treatment facilities meet the requirements in the Storm Water Treatment Design Considerations section of this report.

Where minimal side yards are planned (10 feet or less), we recommend that area drains collect surface runoff and transmit the runoff to other suitable landscape drainage facilities to prevent ponding adjacent to building foundations. Landscape drainage such as drain inlets and storm water filtration and/or infiltration trenches should be provided to collect and transmit storm water runoff to project storm drains, and/or detention or retention facilities. Although the PT-mat foundations are designed to accommodate some moisture variability within the near-surface soils, excessive moisture or desiccation may result in additional differential foundation movement.

6.12 LOW-IMPACT DEVELOPMENT (LID) IMPROVEMENTS

The Municipal Regional Permit (MRP) requires regulated projects to treat 100 percent of the amount of runoff identified in Provision C.3.d from a regulated project's drainage area with low impact development (LID) treatment measures onsite or at a joint stormwater treatment facility. LID treatment measures are defined as rainwater harvesting and use, infiltration, evapotranspiration, or biotreatment. A biotreatment system may only be used if it is infeasible to implement harvesting and use, infiltration, or evapotranspiration at a project site.

Technical infeasibility of infiltration may result from site conditions that restrict the operability of infiltration measures and devices. Various factors affecting the feasibility of infiltration treatment may create an environmental risk, structural stability risk, or physically restrict infiltration. The presence of any of these limiting factors may render infiltration technically infeasible for a proposed project. To aid in determining if infiltration may be feasible at the site, we provide the following site information regarding factors that may aid in determining the feasibility of infiltration facilities at the site.

- The near-surface soils at the site are highly variable and range from sandy to clayey. Therefore, for planning purposes, we recommend classifying the surficial soils as Hydrologic Soil Group D, with infiltration rates of less than 0.2 inches per hour. In our opinion, these clayey soils will significantly limit the infiltration of stormwater. Once final plans are available, we can provide updated soil classification based on the location of LID treatment areas.

- Locally, seasonal high groundwater is mapped at a depth of less than 20 feet, and therefore is expected to be at least 10 feet below the base of the infiltration measure.

- The site has a known geotechnical hazard consisting of soils subject to seismic settlement; therefore, stormwater infiltration facilities may not be feasible.

6.12.1 Storm Water Treatment Design Considerations

If storm water treatment improvements, such as shallow bio-retention swales, basins or pervious pavements, are required as part of the site improvements to satisfy Storm Water Quality (C.3) requirements, we recommend the following items be considered for design and construction.

6.12.1.1 General Bioswale Design Guidelines

- If possible, avoid placing bioswales or basins within 10 feet of the building perimeter or within 5 feet of exterior flatwork or pavements. If bioswales must be constructed within these setbacks, the side(s) and bottom of the trench excavation should be lined with 10-mil visqueen to reduce water infiltration into the surrounding expansive clay.

- Bioswales constructed within 3 feet of proposed buildings may be within the foundation zone of influence for perimeter wall loads. Therefore, where bioswales will parallel

foundations and will extend below the "foundation plane of influence," an imaginary 1:1 plane projected down from the bottom edge of the foundation, the foundation will need to be deepened so that the bottom edge of the bioswale filter material is above the foundation plane of influence.

- The bottom of bioswale or detention areas should include a perforated drain placed at a low point, such as a shallow trench or sloped bottom, to reduce water infiltration into the surrounding soils near structural improvements, and to address the low infiltration capacity of the on-site clay soils.

6.12.1.2 Bioswale Infiltration Material

- Gradation specifications for bioswale filter material, if required, should be specified on the grading and improvement plans.

- Compaction requirements for bioswale filter material in non-landscaped areas or in pervious pavement areas, if any, should be indicated on the plans and specifications to satisfy the anticipated use of the infiltration area.

- If bioswales are to be vegetated, the landscape architect should select planting materials that do not reduce or inhibit the water infiltration rate, such as covering the bioswale with grass sod containing a clayey soil base.

- Due to the relatively loose consistency and/or high organic content of many bioswale filter materials, long-term settlement of the bioswale medium should be anticipated. To reduce initial volume loss, bioswale filter material should be wetted in 12-inch lifts during placement to pre-consolidate the material. Mechanical compaction should not be allowed, unless specified on the grading and improvement plans, since this could significantly decrease the infiltration rate of the bioswale materials.

- It should be noted that the volume of bioswale filter material may decrease over time depending on the organic content of the material. Additional filter material may need to be added to bioswales after the initial exposure to winter rains and periodically over the life of the bioswale areas, as needed.

6.12.1.3 Bioswale Construction Adjacent to Pavements

If bio-infiltration swales or basins are considered adjacent to proposed parking lots or exterior flatwork, we recommend that mitigative measures be considered in the design and construction of these facilities to reduce potential impacts to flatwork or pavements. Exterior flatwork, concrete curbs, and pavements located directly adjacent to bio-swales may be susceptible to settlement or lateral movement, depending on the configuration of the bioswale and the setback between the improvements and edge of the swale. To reduce the potential for distress to these improvements due to vertical or lateral movement, the following options should be considered by the project civil engineer:

- Improvements should be setback from the vertical edge of a bioswale such that there is at least 1 foot of horizontal distance between the edge of improvements and the top edge of the bioswale excavation for every 1 foot of vertical bioswale depth, or

- Concrete curbs for pavements, or lateral restraint for exterior flatwork, located directly adjacent to a vertical bioswale cut should be designed to resist lateral earth pressures in accordance with the recommendations in the "Retaining Walls" section of this report, or concrete curbs or edge restraint should be adequately keyed into the native soil or engineered to reduce the potential for rotation or lateral movement of the curbs.

SECTION 7: 2022 CBC SEISMIC DESIGN CRITERIA

7.1 SEISMIC DESIGN CRITERIA

We understand that the project structural design will be based on the 2022 California Building Code (CBC), which provides criteria for the seismic design of buildings in Chapter 16. The "Seismic Coefficients" used to design buildings are established based on a series of tables and figures addressing different site factors, including the time-weighted average shear wave velocity of the top approximately 100 feet (30 meters) of the soil profile (V_{S30}), soil profile in the upper 100 feet below grade, and mapped spectral acceleration parameters based on distance to the controlling seismic source/fault system.

Our explorations generally encountered loose to medium dense sands underlain by dense to very dense sands to a depth of 47¼ feet, the maximum depth explored. Shear wave velocity (V_S) measurements were performed while advancing CPT-2, resulting in a time-averaged shear wave velocity of 323 meters per second for the upper 47¼ feet. Based on our engineering judgement and interpolations, we anticipate a time-averaged shear wave velocity for the top 30 meters (V_{S30}) of 429 meters per second. In addition, our exploratory borings generally encountered alluvial soils with blow counts greater than 50 between a depth of about 7 to 17 feet. Therefore, we have classified the site as Soil Classification C. The mapped spectral acceleration parameters S_s and S_1 were calculated using the web-based program ATC Hazards by Locations, located at https://hazards.atcouncil.org/, based on the site coordinates presented below and the site classification. Recommended values for design are presented in Table 5. The table below lists the various factors used to determine the seismic coefficients and other parameters.

Table 4: CBC Site Categorization and Site Coefficients

Classification/Coefficient	Design Value
Site Class	C
Site Latitude	37.254374°
Site Longitude	-121.960533°
0.2-second Period Mapped Spectral Acceleration[1], S_S	2.257g
1-second Period Mapped Spectral Acceleration[1], S_1	0.812g
Short-Period Site Coefficient – Fa	1.2
Long-Period Site Coefficient – Fv	1.4
0.2-second Period, Maximum Considered Earthquake Spectral Response Acceleration Adjusted for Site Effects - S_{MS}	2.708g
1-second Period, Maximum Considered Earthquake Spectral Response Acceleration Adjusted for Site Effects – S_{M1}	1.136g
0.2-second Period, Design Earthquake Spectral Response Acceleration – S_{DS}	1.805g
1-second Period, Design Earthquake Spectral Response Acceleration – S_{D1}	0.757g
Site Amplification Factor at PGA – F_{PGA}	1.2
Site Modified Peak Ground Acceleration – PGA_M	1.12g

SECTION 8: FOUNDATIONS

8.1 SUMMARY OF RECOMMENDATIONS

In our opinion, the proposed structures may be supported on shallow foundations provided the recommendations in the “Earthwork” section and the sections below are followed.

8.2 SHALLOW FOUNDATIONS

8.2.1 Conventional Shallow Footings

Conventional shallow footings should bear on natural, undisturbed soil or engineered fill, and extend at least 12 inches below the lowest adjacent grade. Lowest adjacent grade is defined as the deeper of the following: 1) bottom of the adjacent interior slab-on-grade, or 2) finished exterior grade, excluding landscaping topsoil.

Footings constructed to the above dimensions and in accordance with the “Earthwork” recommendations of this report are capable of supporting maximum allowable bearing pressures of 2,000 psf for dead loads, 3,000 psf for combined dead plus live loads, and 4,000 psf for all loads including wind and seismic. These pressures are based on factors of safety of 3.0, 2.0, and 1.5 applied to the ultimate bearing pressure for dead, dead plus live, and all loads, respectively. These pressures are net values; the weight of the footing may be neglected for the portion of the footing extending below grade (typically, the full footing depth). Top and

bottom mats of reinforcing steel should be included in continuous footings to help span irregularities and differential settlement.

8.2.2 Footing Settlement

Structural loads were not provided to us at the time this report was prepared; therefore, we assumed the typical loading in the following table.

Table 5: Assumed Structural Loading

Foundation Area	Range of Assumed Loads
Interior Isolated Column Footing	125 to 200 kips
Exterior Isolated Column Footing	25 to 75 kips
Perimeter Strip Footing	6 to 8 kips per lineal foot

Based on the above loading and the allowable bearing pressures presented above, we estimate that the total static footing settlement will be on the order of ½-inch or less, with less than ½-inch of post-construction differential settlement between adjacent foundation elements. In addition, provided the above mitigation is performed, we estimate that differential seismic movement will be on the order of ½-inch to ¾-inch over a horizontal distance of 30 to 40 feet, resulting in a total estimated differential footing movement of 1-inch or less over a horizontal distance of 30 to 40 feet. As our footing loads were assumed, we recommend we be retained to review the final footing layout and loading, and verify the settlement estimates above.

8.2.3 Lateral Loading

Lateral loads may be resisted by friction between the bottom of footing and the supporting subgrade, and also by passive pressures generated against footing sidewalls. An ultimate frictional resistance of 0.40 applied to the footing dead load, and an ultimate passive pressure based on an equivalent fluid pressure of 400 pcf may be used in design. The structural engineer should apply an appropriate factor of safety (such as 1.5) to the ultimate values above. Where footings are adjacent to landscape areas without hardscape, the upper 12 inches of soil should be neglected when determining passive pressure capacity.

8.2.4 Conventional Shallow Footing Construction Considerations

Where utility lines will cross perpendicular to strip footings, the footing should be deepened to encase the utility line, providing sleeves or flexible cushions to protect the pipes from anticipated foundation settlement, or the utility lines should be backfilled to the bottom of footing with sand-cement slurry or lean concrete. Where utility lines will parallel footings and will extend below the "foundation plane of influence," an imaginary 1:1 plane projected down from the bottom edge of the footing, either the footing will need to be deepened so that the pipe is above the foundation plane of influence, or the utility trench will need to be backfilled with sand-cement slurry or lean concrete within the influence zone. Sand-cement slurry used within foundation influence zones should have a minimum compressive strength of 75 psi.

Footing excavations should be filled as soon as possible or be kept moist until concrete placement by regular sprinkling to prevent desiccation. A Cornerstone representative should observe all footing excavations prior to placing reinforcing steel and concrete. If there is a significant schedule delay between our initial observation and concrete placement, we may need to re-observe the excavations.

Due to the presence of clean sand and gravel, footing excavation walls will likely not stand vertical and will need to be sloped to a minimum 1:1 inclination or Stay-Form or similar may need to be placed within the footing excavations as they are excavated during construction of the foundation elements. Granular material encountered in the footing bottoms will likely be disturbed to a depth of 6 to 8 inches following excavation and will need to be compacted to 90 percent relative compaction prior to steel placement. Care should be taken to not disturb the compacted granular material during steel placement. We should re-observe the footing excavations in granular materials after reinforcing steel has been placed and just prior to concrete placement. Footing excavations should also be kept moist by regular sprinkling with water to prevent desiccation and potential raveling of the granular materials. As an alternative, a rat slab can be placed over the granular material after we have observed the footing excavation to protect the granular material prior to steel placement.

8.2.5 Post-Tensioned Mats

Residential structures should be supported on post-tensioned (PT) concrete mat foundations designed in accordance with the parameters in the table below based on procedures developed by the Post-Tensioning Institute (latest edition) and the 2022 California Building Code.

Table 6: Post-Tensioned Mat Design Criteria

Differential Movement Condition	Center Lift	Edge Lift
Edge Moisture Variation (feet)	9.0	4.8
Differential Soil Movement (inches)	0.5	0.8

To reduce potential differential movement, all mats should be designed for a maximum average allowable bearing pressure of 750 psf for dead plus live loads; at column or wall loading, the maximum localized bearing pressure should be limited to 2,000 psf. When evaluating wind and seismic conditions, allowable bearing pressures may be increased by one-third. These pressures are net values; the weight of the mat may be neglected for the portion of the mat extending below grade. Top and bottom mats of reinforcing steel should be included as required to help span irregularities and differential settlement.

8.2.6 Mat Foundation Settlement

We estimate that total foundation movement under static loads will be approximately ½ inch or less, with post-construction differential movement due to static loading of ¼ inch across a typical building footprint. In addition, the mats should be designed to accommodate an estimated

seismic differential movement on the order of ½-inch to ¾-inch over a horizontal distance of 30 to 40 feet.

8.2.7 Lateral Loading

Lateral loads may be resisted by friction between the bottom of mat foundation and the supporting subgrade, and also by passive pressures generated against deepened mat edges. An ultimate frictional resistance of 0.40 applied to the mat dead load, and an ultimate passive pressure based on an equivalent fluid pressure of 400 pcf may be used in design. The structural engineer should apply an appropriate factor of safety (such as 1.5) to the ultimate values above. The upper 12 inches of soil should be neglected when determining passive pressure capacity.

8.2.8 Mat Foundation Construction Considerations

Prior to placement of any vapor retarder and mat construction, the subgrade should be proof-rolled and visually observed by a Cornerstone representative to confirm stable subgrade conditions. The pad moisture should also be checked at least 24 hours prior to vapor barrier or mat reinforcement placement to confirm that the soil has a moisture content of at least 1 percent over optimum in the upper 12 inches.

8.2.9 Moisture Protection Considerations for Mat Foundations

The following general guidelines for concrete mat construction where floor coverings are planned are presented for the consideration of the developer, design team, and contractor. These guidelines are based on information obtained from a variety of sources, including the American Concrete Institute (ACI) and are intended to reduce the potential for moisture-related problems causing floor covering failures, and may be supplemented as necessary based on project-specific requirements. The application of these guidelines or not will not affect the geotechnical aspects of the mat foundation performance.

- Place a 15-mil vapor retarder conforming to ASTM E 1745, Class C requirements or better directly below the concrete mat; the vapor retarder should extend to within 12 to 18 inches from the mat edges and be sealed at all seams and penetrations in accordance with manufacturer's recommendations and ASTM E 1643 requirements. A 4-inch-thick capillary break, consisting of crushed rock should be placed below the vapor retarder and consolidated in place with vibratory equipment. The mineral aggregate shall be of such size that the percentage composition by dry weight as determined by laboratory sieves will conform to the following gradation:

Sieve Size	Percentage Passing Sieve
1"	100
¾"	90 – 100
No. 4	0 – 10
No. 200	0 – 5

- The concrete water:cement ratio should be 0.45 or less. Mid-range plasticizers may be used to increase concrete workability and facilitate pumping and placement.
- Water should not be added after initial batching unless the slump is less than specified and/or the resulting water:cement ratio will not exceed 0.45.
- Where floor coverings are planned, all concrete surfaces should be properly cured.
- Water vapor emission levels and concrete pH should be determined in accordance with ASTM F1869-98 and F710-98 requirements and evaluated against the floor covering manufacturer's requirements prior to installation.

SECTION 9: CONCRETE SLABS AND PEDESTRIAN PAVEMENTS

9.1 INTERIOR SLABS-ON-GRADE WITH SPREAD FOOTINGS

As the Plasticity Index (PI) of the surficial soils is 15 or less, the proposed slabs-on-grade may be supported directly on subgrade prepared in accordance with the recommendations in the "Earthwork" section of this report. If moisture-sensitive floor coverings are planned, the recommendations in the "Interior Slabs Moisture Protection Considerations" section below may be incorporated in the project design if desired. If significant time elapses between initial subgrade preparation and slab-on-grade construction, the subgrade should be proof-rolled to confirm subgrade stability, and if the soil has been allowed to dry out, the subgrade should be re-moisture conditioned to near optimum moisture content.

The structural engineer should determine the appropriate slab reinforcement for the loading requirements and consider the expansion potential of the underlying soils. For unreinforced concrete slabs, ACI 302.1R recommends limiting control joint spacing to 24 to 36 times the slab thickness in each direction, or a maximum of 18 feet.

9.2 INTERIOR SLABS MOISTURE PROTECTION CONSIDERATIONS

Interior moisture protection should be in accordance with recommendations provided above in Section 8.2.8.

9.3 EXTERIOR FLATWORK

9.3.1 Pedestrian Concrete Flatwork

Exterior concrete flatwork subject to pedestrian and/or occasional light pick up loading should be at least 4 inches thick and supported on at least 4 inches of Class 2 aggregate base overlying subgrade prepared in accordance with the "Earthwork" recommendations of this report. Flatwork that will be subject to heavier or frequent vehicular loading should be designed in accordance with the recommendations in the "Vehicular Pavements" section below. To help reduce the potential for uncontrolled shrinkage cracking, adequate expansion and control joints should be included. Consideration should be given to limiting the control joint spacing to a

maximum of about 2 feet in each direction for each inch of concrete thickness. Flatwork should be isolated from adjacent foundations or retaining walls except where limited sections of structural slabs are included to help span irregularities in retaining wall backfill at the transitions between at-grade and on-structure flatwork.

SECTION 10: VEHICULAR PAVEMENTS

10.1 ASPHALT CONCRETE

The following asphalt concrete pavement recommendations tabulated below are based on the Procedure 608 of the Caltrans Highway Design Manual, estimated traffic indices for various pavement-loading conditions, and on a design R-value of 5. The design R-value was chosen based on engineering judgement considering the variable soil conditions.

Table 7: Asphalt Concrete Pavement Recommendations

Design Traffic Index (TI)	Asphalt Concrete (inches)	Class 2 Aggregate Base[1] (inches)	Total Pavement Section Thickness (inches)
4.0	2.5	7.5	10.0
4.5	2.5	9.5	12.0
5.0	3.0	10.0	13.0
5.5	3.0	12.0	15.0
6.0	3.5	13.0	16.5
6.5	4.0	13.5	17.5

[1]Caltrans Class 2 aggregate base; minimum R-value of 78; subgrade R-value of 5

Frequently, the full asphalt concrete section is not constructed prior to construction traffic loading. This can result in significant loss of asphalt concrete layer life, rutting, or other pavement failures. To improve the pavement life and reduce the potential for pavement distress through construction, we recommend the full design asphalt concrete section be constructed prior to construction traffic loading. Alternatively, a higher traffic index may be chosen for the areas where construction traffic will use the pavements.

10.2 PORTLAND CEMENT CONCRETE

The Portland Cement Concrete (PCC) pavement recommendations outlined below are based on methods presented in American Concrete Pavement Association (ACPA, 2006). We have provided a few pavement alternatives as an anticipated Average Daily Truck Traffic (ADTT) was not provided.

The following table presents minimum PCC pavements thicknesses for various traffic loading categories and the anticipated maximum Average Daily Truck Traffic (ADTT).

Table 8: PCC Pavement Recommendations

Traffic Category	Minimum PCC Thickness[1] (inches)	Class 2 Aggregate Base (inches)
Maximum ADTT = 3	5.0	6.0
Maximum ADTT = 10	5.5	6.0
Maximum ADTT = 20	6.0	6.0

[1]Subgrade design R-Value = 5

The PCC thicknesses above are based on a concrete compressive strength of at least 3,500 psi, and laterally restraining the PCC with curbs or concrete shoulders. Adequate expansion and control joints should be included. Consideration should be given to limiting the control joint spacing to a maximum of about 2 feet in each direction for each inch of concrete thickness.

10.2.1 Stress Pads for Trash Enclosures

Pads where trash containers will be stored, and where garbage trucks will park while emptying trash containers, should be constructed on Portland Cement Concrete. We recommend that the trash enclosure pads and stress (landing) pads where garbage trucks will store, pick up, and empty trash be increased to a minimum PCC thickness of 7 inches. The compressive strength, underlayment, and construction details should be consistent with the above recommendations for PCC pavements.

10.3 PAVEMENT CUTOFF

Surface water penetration into the pavement section can significantly reduce the pavement life, due to the native expansive clays. While quantifying the life reduction is difficult, a normal 20-year pavement design could be reduced to less than 10 years; therefore, increased long-term maintenance may be required.

It would be beneficial to include a pavement cut-off, such as deepened curbs, redwood-headers, or “Deep-Root Moisture Barriers” that are keyed at least 4 inches into the pavement subgrade. This will help limit the additional long-term maintenance.

SECTION 11: LIMITATIONS

This report, an instrument of professional service, has been prepared for the sole use of Urban Catalyst specifically to support the design of the Oka Road Residential project in Los Gatos, California. The opinions, conclusions, and recommendations presented in this report have been formulated in accordance with accepted geotechnical engineering practices that exist in Northern California at the time this report was prepared. No warranty, expressed or implied, is made or should be inferred.

Recommendations in this report are based upon the soil and groundwater conditions encountered during our subsurface exploration. If variations or unsuitable conditions are encountered during construction, Cornerstone must be contacted to provide supplemental recommendations, as needed.

Urban Catalyst may have provided Cornerstone with plans, reports and other documents prepared by others. Urban Catalyst understands that Cornerstone reviewed and relied on the information presented in these documents and cannot be responsible for their accuracy.

Cornerstone prepared this report with the understanding that it is the responsibility of the owner or their representatives to see that the recommendations contained in this report are presented to other members of the design team and incorporated into the project plans and specifications, and that appropriate actions are taken to implement the geotechnical recommendations during construction.

Conclusions and recommendations presented in this report are valid as of the present time for the development as currently planned. Changes in the condition of the property or adjacent properties may occur with the passage of time, whether by natural processes or the acts of other persons. In addition, changes in applicable or appropriate standards may occur through legislation or the broadening of knowledge. Therefore, the conclusions and recommendations presented in this report may be invalidated, wholly or in part, by changes beyond Cornerstone's control. This report should be reviewed by Cornerstone after a period of three (3) years has elapsed from the date of this report. In addition, if the current project design is changed, then Cornerstone must review the proposed changes and provide supplemental recommendations, as needed.

An electronic transmission of this report may also have been issued. While Cornerstone has taken precautions to produce a complete and secure electronic transmission, please check the electronic transmission against the hard copy version for conformity.

Recommendations provided in this report are based on the assumption that Cornerstone will be retained to provide observation and testing services during construction to confirm that conditions are similar to that assumed for design, and to form an opinion as to whether the work has been performed in accordance with the project plans and specifications. If we are not retained for these services, Cornerstone cannot assume any responsibility for any potential claims that may arise during or after construction as a result of misuse or misinterpretation of Cornerstone's report by others. Furthermore, Cornerstone will cease to be the Geotechnical-Engineer-of-Record if we are not retained for these services.

SECTION 12: REFERENCES

Aagaard, B.T., Blair, J.L., Boatwright, J., Garcia, S.H., Harris, R.A., Michael, A.J., Schwartz, D.P., and DiLeo, J.S., 2016, Earthquake outlook for the San Francisco Bay region 2014–2043 (ver. 1.1, August 2016): U.S. Geological Survey Fact Sheet 2016–3020, 6 p., http://dx.doi.org/10.3133/fs20163020.

ATC Hazards by Location, Hazards by Location, 2020, https://hazards.atcouncil.org/

American Concrete Pavement Association (ACPA, 2006). *Design of Concrete Pavement for Streets and Roads.*

ASCE 7-16. American Society of Civil Engineers. (2016). *Minimum Design Loads and Associated Criteria for Buildings and Other Structures.*

Boulanger, R.W. and Idriss, I.M., 2004, Evaluating the Potential for Liquefaction or Cyclic Failure of Silts and Clays, Department of Civil & Environmental Engineering, College of Engineering, University of California at Davis.

Boulanger, R.W. and Idriss, I.M., 2014, CPT and SPT Based Liquefaction Triggering Procedures, Department of Civil & Environmental Engineering, College of Engineering, University of California at Davis, Report No. UCD/GCM-14/01, April 2014

California Building Code, 2022, Structural Engineering Design Provisions, Vol. 2.

California Department of Conservation Division of Mines and Geology, 1998, Maps of Known Active Fault Near-Source Zones in California and Adjacent Portions of Nevada, International Conference of Building Officials, February, 1998.

California Division of Mines and Geology (2008), “Guidelines for Evaluating and Mitigating Seismic Hazards in California, Special Publication 117A, September.

California Geological Survey, 2002, State of California Seismic Hazard Zones, San Jose West 7.5-Minute Quadrangle, California: Seismic Hazard Zone Report 058.

CGS. (2021). *Earthquake Zones of Required Investigation.* CGS Homepage. https://maps.conservation.ca.gov/cgs/EQZApp/app/

Federal Emergency Management Administration (FEMA), 2009, FIRM Town of Los Gatos, California, Community Panel #06085C0239H.

Idriss, I.M., and Boulanger, R.W., 2008, Soil Liquefaction During Earthquakes, Earthquake Engineering Research Institute, Oakland, CA, 237 p.

Ishihara, K., 1985, Stability of Natural Deposits During Earthquakes: Proceedings Eleventh International Conference on Soil Mechanics and Foundation Engineering, San Francisco.

Ishihara, K. and Yoshimine, M., 1992, Evaluation of Settlements in Sand Deposits Following Liquefaction During Earthquakes, Soils and Foundations, 32 (1): 173-188.

Pradel, D., 1988, Procedure to Evaluate Earthquake-Induced Settlements in Dry Sandy Soils, Journal of Geotechnical and Environmental Engineering, April 1998, p. 364 – 368 and Errata October 1998 p. 1048.

Ritter, J.R., and Dupre, W.R., 1972, Map Showing Areas of Potential Inundation by Tsunamis in the San Francisco Bay Region, California: San Francisco Bay Region Environment and Resources Planning Study, USGS Basic Data Contribution 52, Misc. Field Studies Map MF-480.

Robertson, P.K., Shao, Lisheng, 2010, Estimation of Seismic Compression in Dry Soils Using the CPT, 5th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, Paper No. 4.05a, May 24-29, 2010.

Rogers, T.H., and J.W. Williams, 1974 Potential Seismic Hazards in Santa Clara County, California, Special Report No. 107: California Division of Mines and Geology.

Seed, H.B. and I.M. Idriss, 1971, A Simplified Procedure for Evaluation soil Liquefaction Potential: JSMFC, ASCE, Vol. 97, No. SM 9, pp. 1249 – 1274.

Seed, Raymond B., Cetin, K.O., Moss, R.E.S., Kammerer, Ann Marie, Wu, J., Pestana, J.M., Riemer, M.F., Sancio, R.B., Bray, Jonathan D., Kayen, Robert E., and Faris, A., 2003, Recent Advances in Soil Liquefaction Engineering: A Unified and Consistent Framework., University of California, Earthquake Engineering Research Center Report 2003-06.

State of California Department of Transportation, Highway Design Manual, Latest Edition.

Working Group on California Earthquake Probabilities, 2015, The Third Uniform California Earthquake Rupture Forecast, Version 3 (UCERF), U.S. Geological Survey Open File Report 2013-1165 (CGS Special Report 228). *KMZ files available at:* www.scec.org/ucerf/images/ucerf3_timedep_30yr_probs.kmz

Yoshimine, M., Nishizaki, H., Amano, KI, and Hosono, Y., 2006, Flow Deformation of Liquefied Sand Under Constant Shear Load and Its Application to Analysis of Flow Slide in Infinite Slope, Soil Dynamics and Earthquake Eng. 26, 253-264.

Youd, T.L. and C.T. Garris, 1995, Liquefaction-Induced Ground-Surface Disruption: Journal of Geotechnical Engineering, Vol. 121, No. 11, pp. 805 - 809.

Youd, T.L. and Idriss, I.M., et al, 1997, Proceedings of the NCEER Workshop on Evaluation of Liquefaction Resistance of Soils: National Center for Earthquake Engineering Research, Technical Report NCEER - 97-0022, January 5, 6, 1996.

Youd et al., 2001, “Liquefaction Resistance of Soils: Summary Report from the 1996 NCEER and 1998 NCEER/NSF Workshops on Evaluation of Liquefaction Resistance of Soils,” ASCE Journal of Geotechnical and Geoenvironmental Engineering, Vo. 127, No. 10, October, 2001.

Youd, T. Leslie, Hansen, Corbett M., and Bartlett, Steven F., 2002, Revised Multilinear Regression Equations for Prediction of Lateral Spread Displacement: ASCE Journal of Geotechnical and Geoenvironmental Engineering, Vol. 128, December 2002, p 1007-1017.

Youd, T.L. and Hoose, S.N., 1978, Historic Ground Failures in Northern California Triggered by Earthquakes, United States Geologic Survey Professional Paper 993.



CORNERSTONE EARTH GROUP

Vicinity Map

Oka Road Residential
Los Gatos, CA

Project Number	1109-5-2
Figure Number	Figure 1
Date	September 2024
Drawn By	RRN

*Figure not OCR compatible.

LOS GATOS CREEK

424-08-075
LANDS OF TOWN OF LOS GATOS

TOP OF BANK

EXISTING WATER LINE EASEMENT TO BE REMOVED

Fremont Court

MAIL BOX (P)

MIN. 18' STBK FROM LEVEE

EXISTING LEVEE

15.2' MINIMUM REAR SETBACK (P)

20' REQUIRED REAR SETBACK

PROPOSED LOW PERIMETER WOOD FENCE, 3'-6" HEIGHT

EXISTING LOT LINE TO BE REMOVED

EB-1

CPT-1

EB-2

CPT-2

8' REQUIRED SIDE SETBACK

57.3' MINIMUM SIDE SETBACK (P)

8' REQUIRED SIDE SETBACK

45.3' MINIMUM SIDE SETBACK (P)

EXISTING CHAIN LINK FENCE TO BE REPLACED WITH PROPOSED WOOD FENCE, 6'-0" HEIGHT

EXISTING LOT LINE TO BE REMOVED

LOT 1
8-PLEX
18,928 SF

LOT 2
8-PLEX
18,928 SF

LOT 3
7-PLEX
16,439 SF

15' PUE(E) TO REMAIN

MENNE LANE (P)

4' MIN. FRONT SETBACK (P)

LOT 6
8-PLEX
18,928 SF

LOT 5
8-PLEX
18,928 SF

LOT 4
7-PLEX
16,439 SF

EXISTING CHAIN LINK FENCE TO BE REPLACED WITH WOOD FENCE, 6'-0" HEIGHT

LOT 7
8-PLEX
18,928 SF

9' MIN. SETBACK (P)

CPT-3

LOT 8
8-PLEX

LOT 9
7-PLEX
16,439 SF

14855 OKA ROAD
424-08-033
LANDS OF LEVY FAMILY CAMPUS
EXISTING CAMPUS

OGILVIE LANE (P)

TRANSFORMER (TYP)

14685 OKA ROAD
424-08-013
LANDS OF MIRASSOU CLOVIS M TRUSTEE & ET AL
EXISTING RESIDENTIAL

LOT 12
8-PLEX
18,928 SF

9' MIN. REAR SETBACK (P)

LOT 11
8-PLEX
18,928 SF

LOT 10
7-PLEX
16,439 SF

BURROUGHS LANE (P)

HAYDEN LANE (P)

LOT 13
8-PLEX
18,928 SF

LOT 14
8-PLEX
18,928 SF

LOT 15
7-PLEX
16,439 SF

GREENMAN LANE (P)

PROPOSED ELECTRICAL TRANSFORMER (TYP.)

EB-3

CPT-4

LOT 18
8-PLEX
18,928 SF

LOT 17
8-PLEX
18,928 SF

LOT 16
7-PLEX
16,439 SF

TRANSFORMER (TYP)

10' SSE (E) TO BE REMOVED

25' REQUIRED FRONT SETBACK

20' SSE (E) TO REMAIN

CPT-5

Approximate Site Boundary

10' SSE (E) TO BE REMOVED

8.5' MINIMUM FRONT SETBACK (P)

5' ROW DEDICATION (P)

Oka Road

BACKFLOW (TYP)

9.5' SWLK WITH PLANTER STRIP

14840 OKA ROAD
424-08-057
LANDS OF ETPH LP
EXISTING RESIDENTIAL

148000 OKA ROAD
424-08-057
LANDS OF ETPH LP
EXISTING RESIDENTIAL

N

Legend

Approximate location of exploratory boring (EB)

Approximate location of cone penetration test (CPT)

0 80 160

APPROXIMATE SCALE (FEET)

Base by Google Earth, dated 03/10/2022
Overlay by HMH, Site Plan - 3.0, dated 01/15/2025

*Figure not OCR compatible.

Project Number 1109-5-2

Figure Number Figure 2

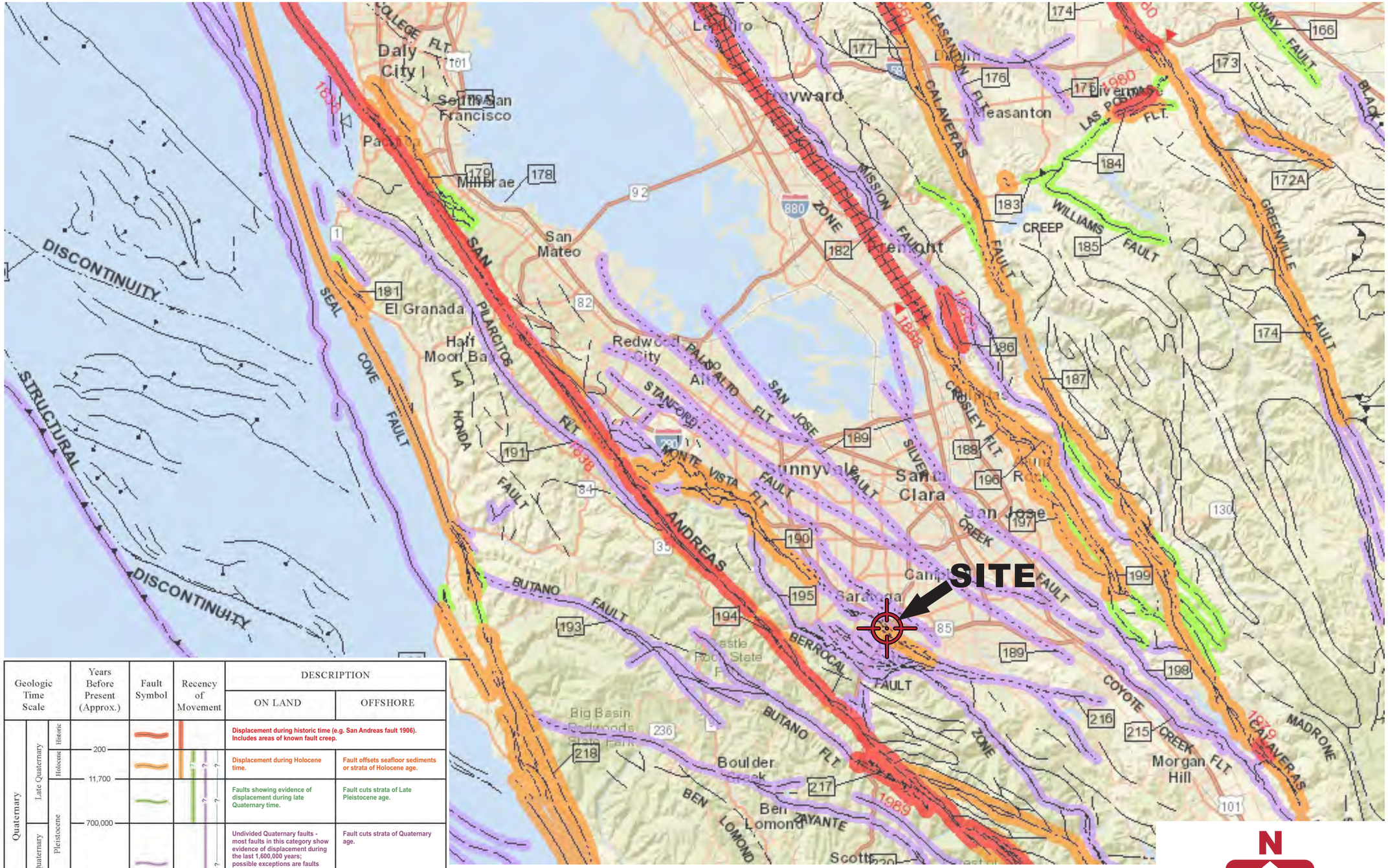
Drawn By RRN

Date February 2025

Site Plan

Oka Road Residential
Los Gatos, CA

CORNERSTONE EARTH GROUP



Geologic Time Scale		Years Before Present (Approx.)	Fault Symbol	Recency of Movement	DESCRIPTION	
					ON LAND	OFFSHORE
Quaternary	Historic	200			Displacement during historic time (e.g. San Andreas fault 1906). Includes areas of known fault creep.	
	Late Quaternary, Holocene	11,700		? ? ?	Displacement during Holocene time.	Fault offsets seafloor sediments or strata of Holocene age.
	Late Quaternary, Pleistocene	700,000		? ?	Faults showing evidence of displacement during late Quaternary time.	Fault cuts strata of Late Pleistocene age.
	Early Quaternary	1,600,000		?	Undivided Quaternary faults - most faults in this category show evidence of displacement during the last 1,600,000 years; possible exceptions are faults which displace rocks of undifferentiated Pilo-Pleistocene age.	Fault cuts strata of Quaternary age.
Pre-Quaternary		4.5 billion (Age of Earth)			Faults without recognized Quaternary displacement or showing evidence of no displacement during Quaternary time. Not necessarily inactive.	Fault cuts strata of Pliocene or older age.

Base by California Geological Survey - 2010 Fault Activity Map of California (Jennings and Bryant, 2010)

Project Number 1109-5-2

Figure Number Figure 3

Date September 2024

Drawn By RRN

Regional Fault Map

Oka Road Residential
Los Gatos, CA

CORNERSTONE EARTH GROUP

*Figure not OCR compatible.

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FIGURE 4A

CPT NO. 1

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PROJECT/CPT DATA

Project Title	**Oka Road Residential**
Project No.	**1109-5-2**
Project Manager	**MFR**

SEISMIC PARAMETERS

Controlling Fault	**San Andreas: SAP+SAS**	
Earthquake Magnitude (Mw)	**7.6**	
PGA (Amax)	**1.12**	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	**18**
Design Water Depth (feet)	**15**
Ave. Unit Weight Above GW (pcf)	**100**
Ave. Unit Weight Below GW (pcf)	**125**

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM 15 **FEET**

1.63 **(Inches)**

LIQUEFACTION SETTLEMENT FROM 50 **FEET**

0.00 **(Inches)**

TOTAL SEISMIC SETTLEMENT 1.6 **INCHES**

POTENTIAL LATERAL DISPLACEMENT

LDI[2] 0.00 **L/H** 8.1

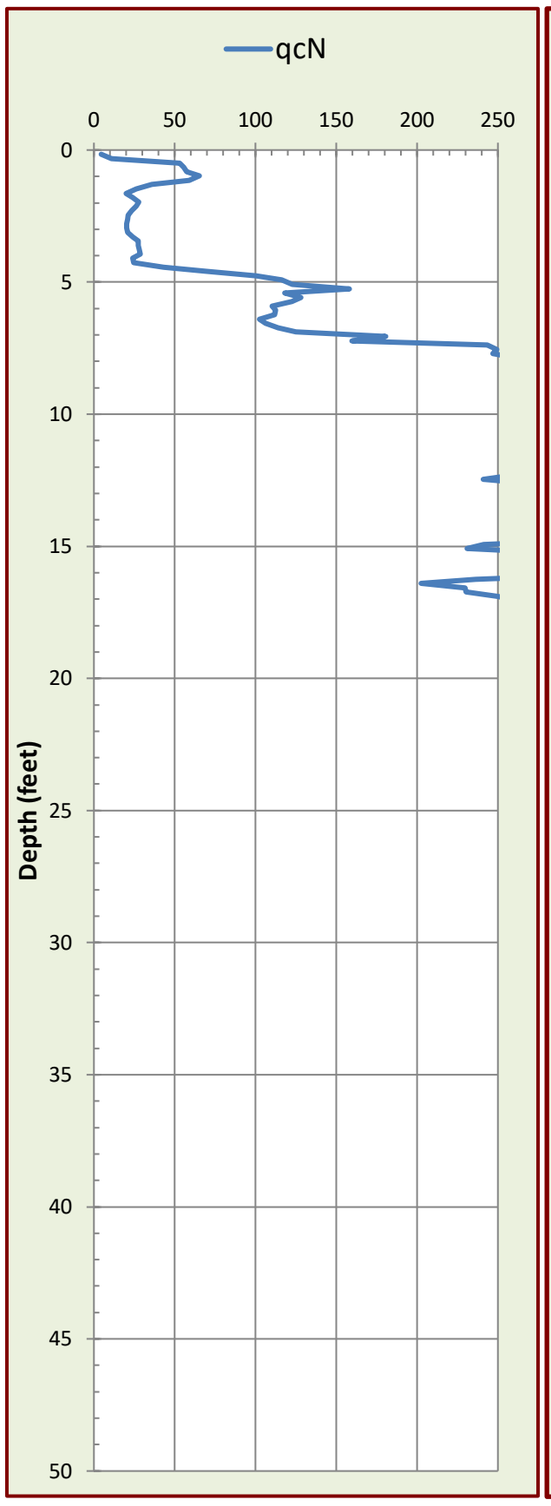
LDI[1] **Corrected for Distance** 0.00 (4 < L/H < 40)

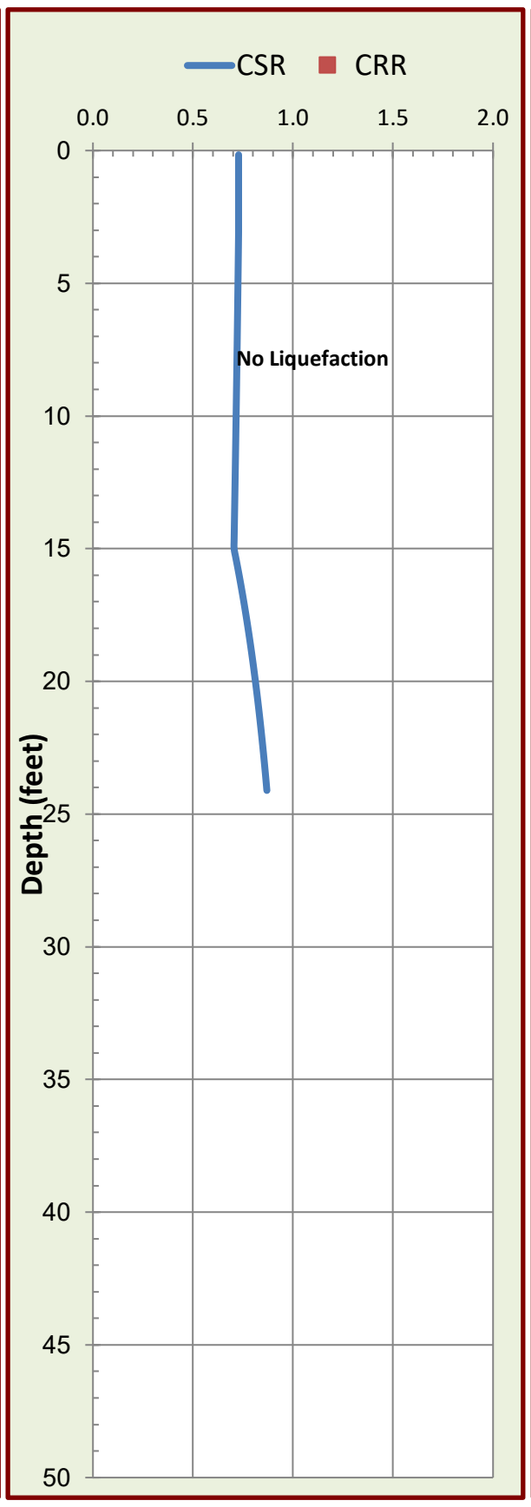
EXPECTED RANGE OF DISPLACEMENT

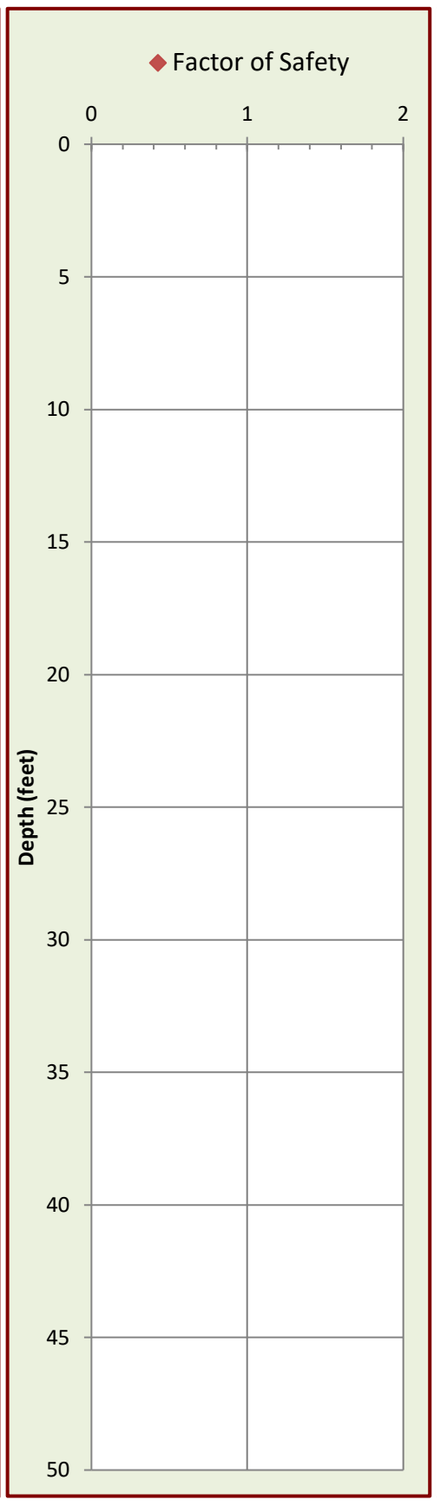
0.0 **to** **0.0** **feet**

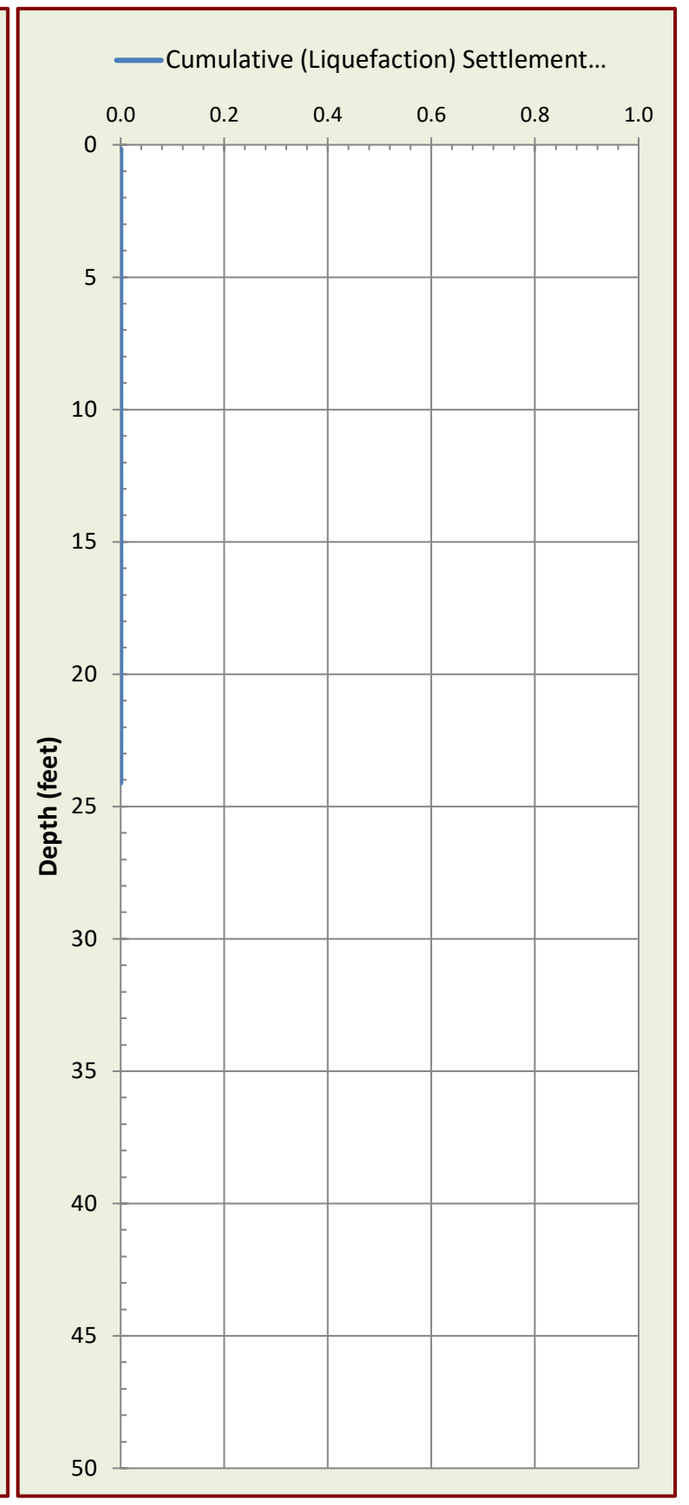
[1]Not Valid for L/H Values < 4 and > 40.

[2]LDI Values Only Summed to 2H Below Grade.









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FIGURE 4B

CPT NO. 2

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PROJECT/CPT DATA

Project Title	**Oka Road Residential**
Project No.	**1109-5-2**
Project Manager	**MFR**

SEISMIC PARAMETERS

Controlling Fault	**San Andreas: SAP+SAS**	
Earthquake Magnitude (Mw)	**7.6**	
PGA (Amax)	**1.12**	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	**18**
Design Water Depth (feet)	**15**
Ave. Unit Weight Above GW (pcf)	**120**
Ave. Unit Weight Below GW (pcf)	**125**

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM 15 **FEET**

1.50 **(Inches)**

LIQUEFACTION SETTLEMENT FROM 50 **FEET**

0.70 **(Inches)**

TOTAL SEISMIC SETTLEMENT 2.2 **INCHES**

POTENTIAL LATERAL DISPLACEMENT

LDI[2] 0.13 **L/H** 18.8

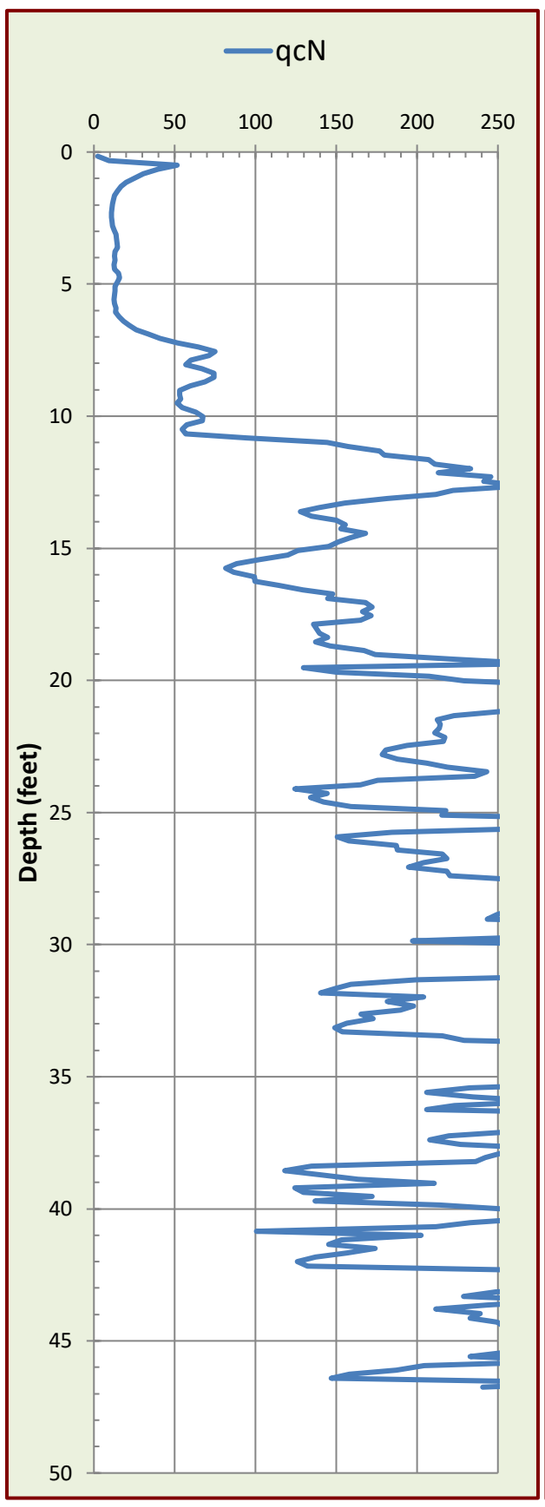
LDI[1] **Corrected for Distance** 0.08 (4 < L/H < 40)

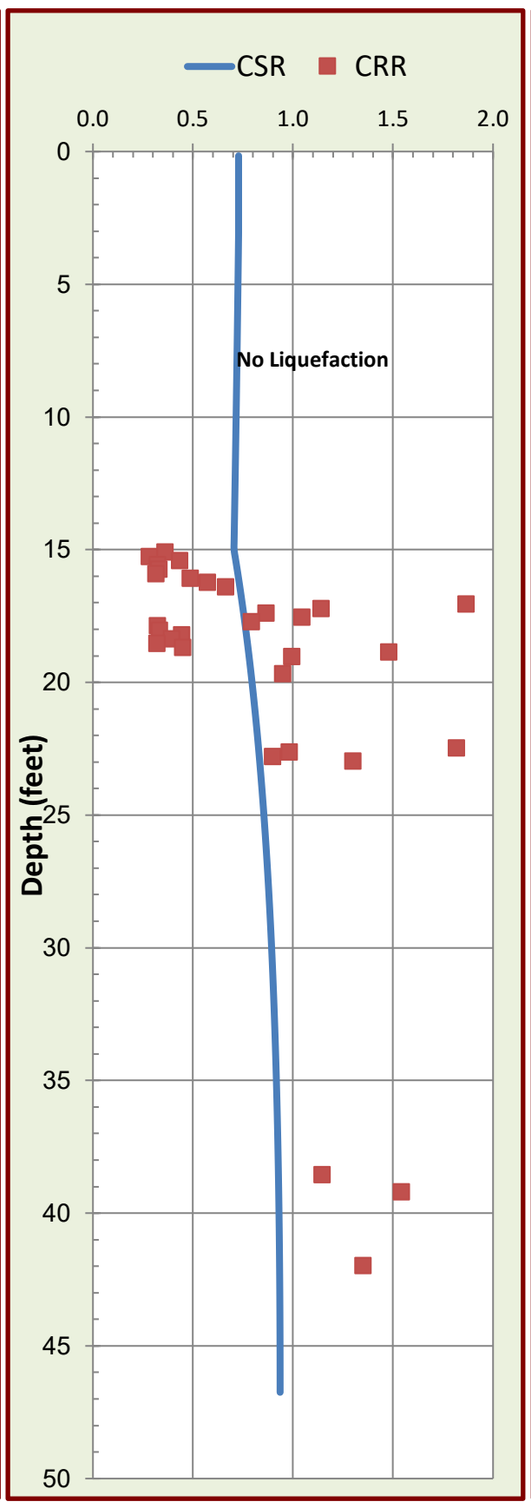
EXPECTED RANGE OF DISPLACEMENT

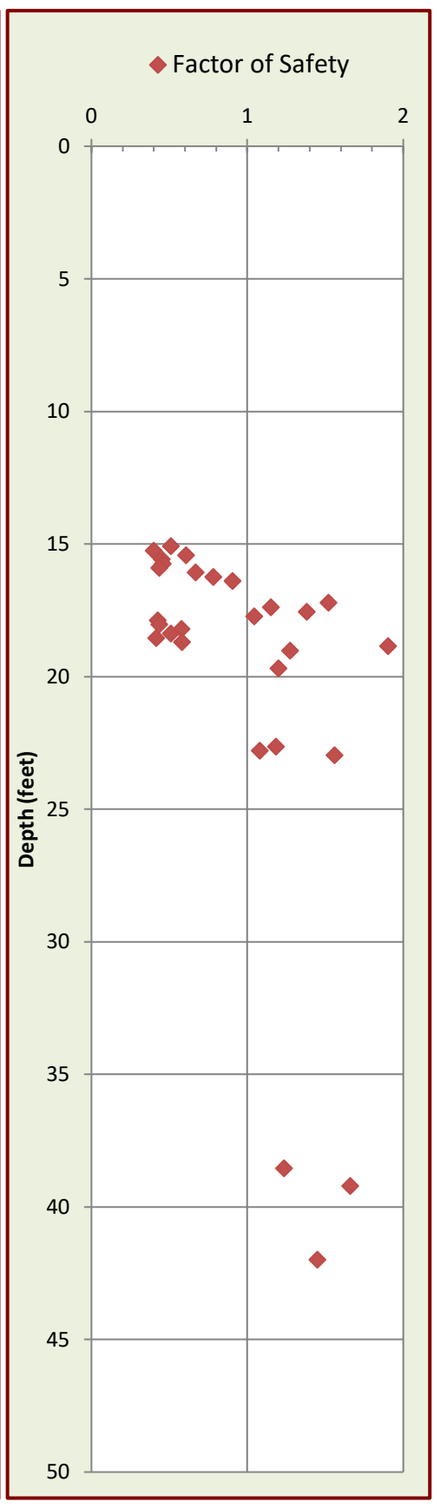
0.0 **to** **0.2** **feet**

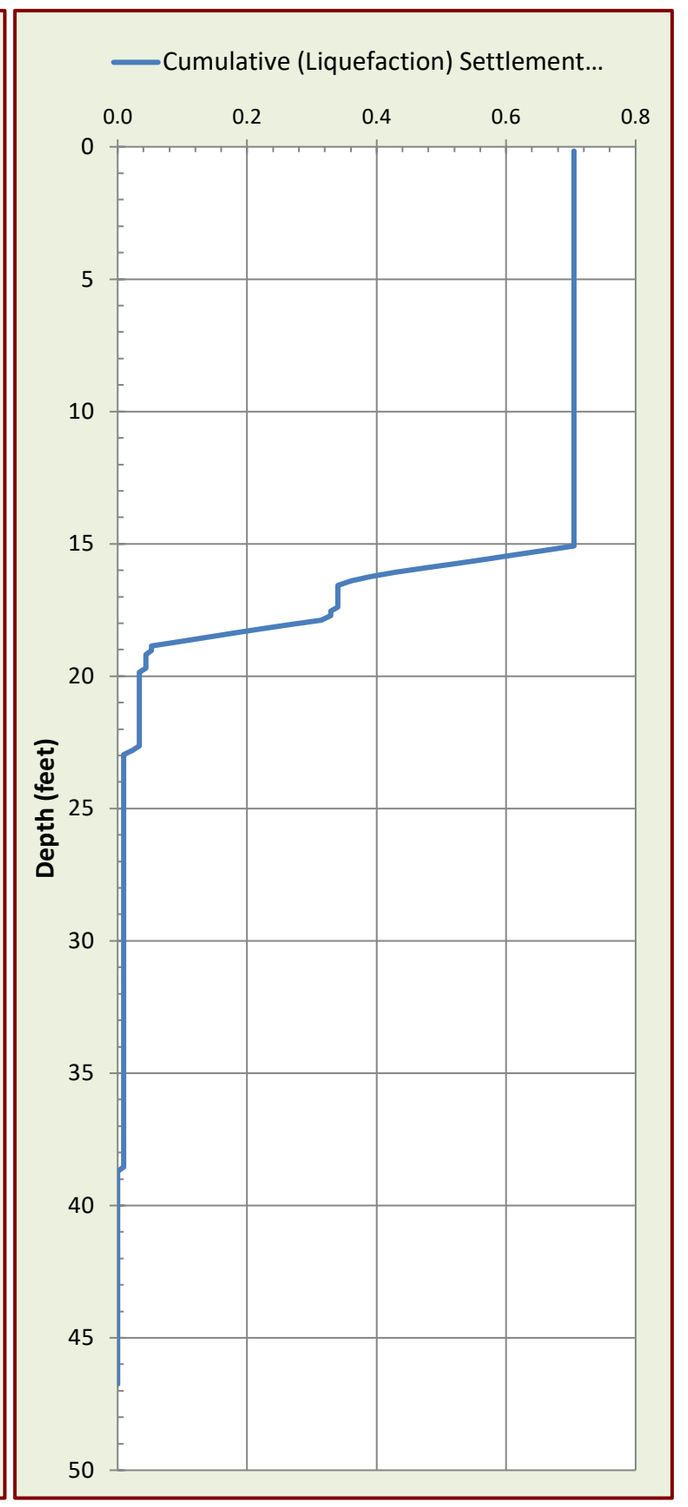
[1]Not Valid for L/H Values < 4 and > 40.

[2]LDI Values Only Summed to 2H Below Grade.









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FIGURE 4C

CPT NO. 3

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PROJECT/CPT DATA

Project Title	**Oka Road Residential**
Project No.	**1109-5-2**
Project Manager	**MFR**

SEISMIC PARAMETERS

Controlling Fault	**San Andreas: SAP+SAS**	
Earthquake Magnitude (Mw)	**7.6**	
PGA (Amax)	**1.12**	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	**18**
Design Water Depth (feet)	**15**
Ave. Unit Weight Above GW (pcf)	**120**
Ave. Unit Weight Below GW (pcf)	**125**

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM 15 **FEET**

0.60 **(Inches)**

LIQUEFACTION SETTLEMENT FROM 50 **FEET**

0.68 **(Inches)**

TOTAL SEISMIC SETTLEMENT 1.3 **INCHES**

POTENTIAL LATERAL DISPLACEMENT

LDI[2] 0.03 **L/H** 55.0

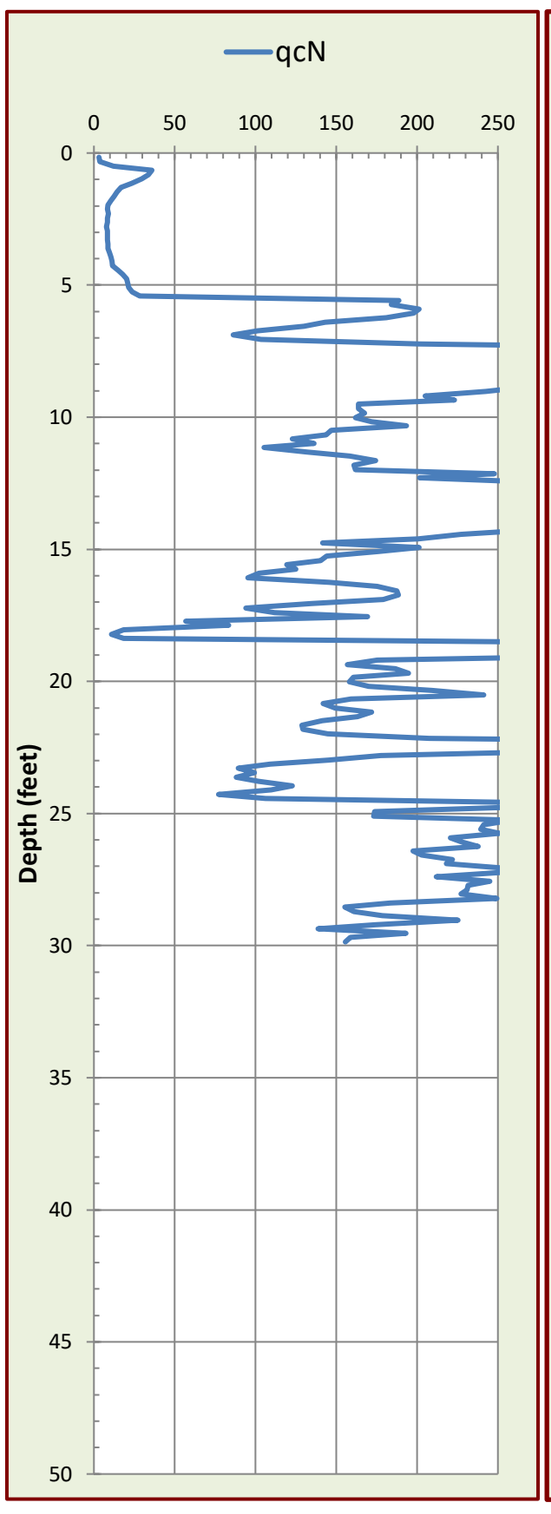
LDI[1] **Corrected for Distance** 0.01 (4 < L/H < 40)

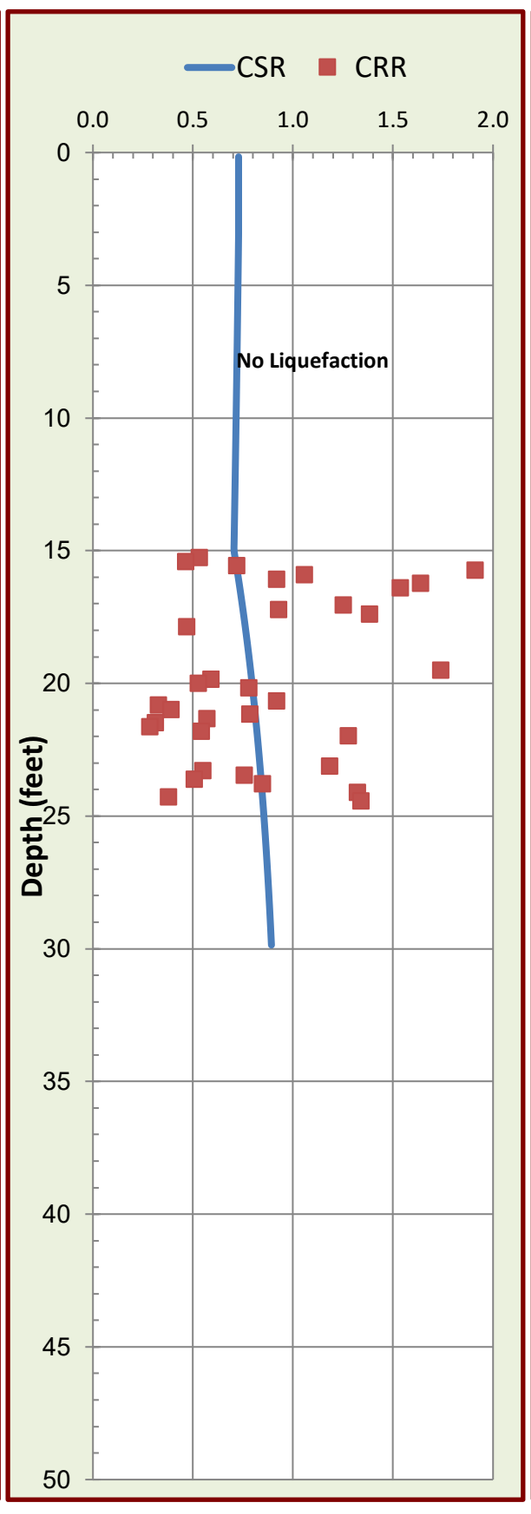
EXPECTED RANGE OF DISPLACEMENT

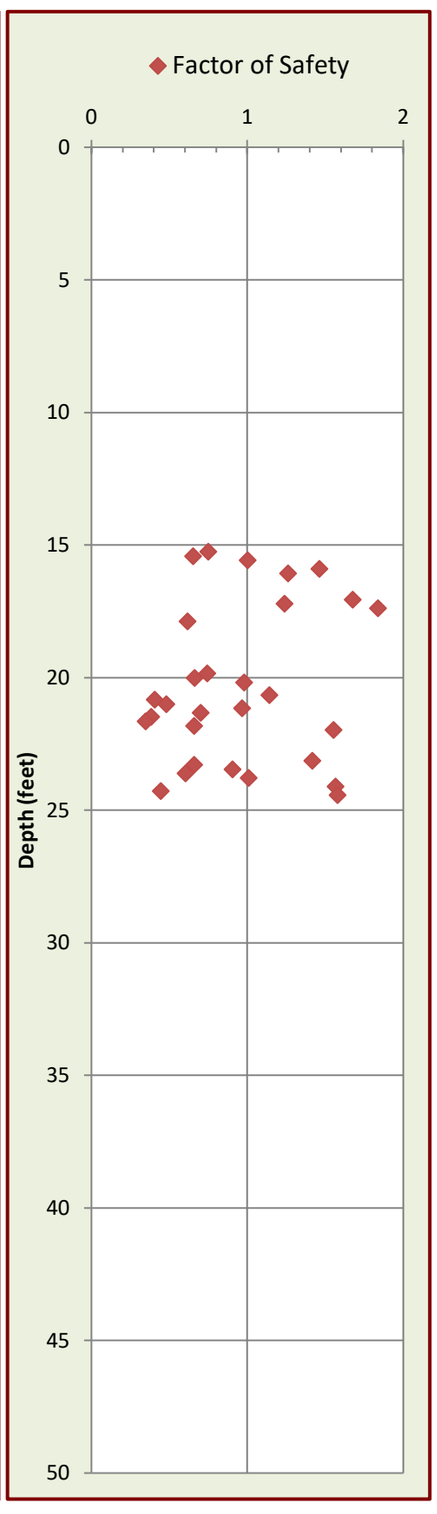
0.0 **to** **0.0** **feet**

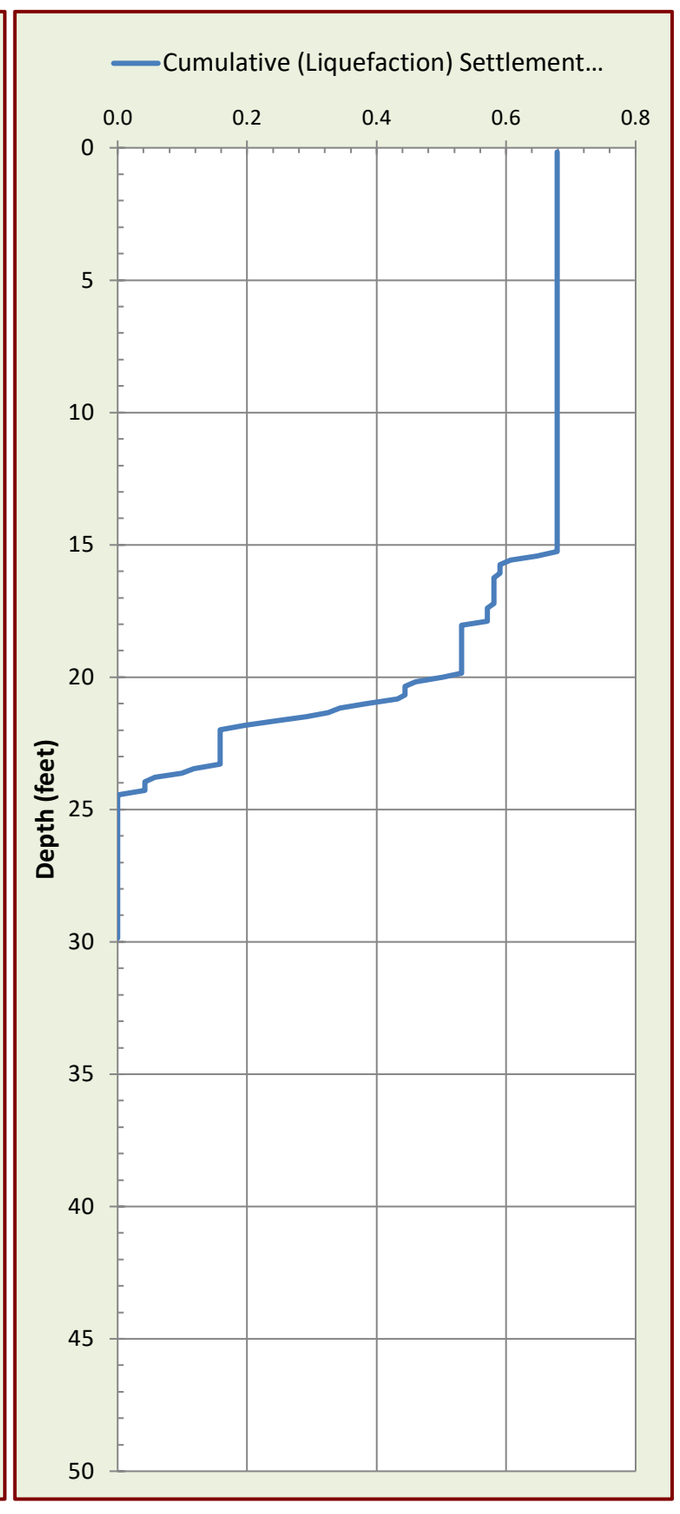
[1]Not Valid for L/H Values < 4 and > 40.

[2]LDI Values Only Summed to 2H Below Grade.









CORNERSTONE EARTH GROUP

FIGURE 4D

CPT NO. 4

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PROJECT/CPT DATA

Project Title	**Oka Road Residential**
Project No.	**1109-5-2**
Project Manager	**MFR**

SEISMIC PARAMETERS

Controlling Fault	**San Andreas: SAP+SAS**	
Earthquake Magnitude (Mw)	**7.6**	
PGA (Amax)	**1.12**	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	**18**
Design Water Depth (feet)	**15**
Ave. Unit Weight Above GW (pcf)	**120**
Ave. Unit Weight Below GW (pcf)	**125**

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM 15 **FEET**

0.02 **(Inches)**

LIQUEFACTION SETTLEMENT FROM 50 **FEET**

0.00 **(Inches)**

TOTAL SEISMIC SETTLEMENT 0.0 **INCHES**

POTENTIAL LATERAL DISPLACEMENT

LDI[2] 0.00 **L/H** 65.0

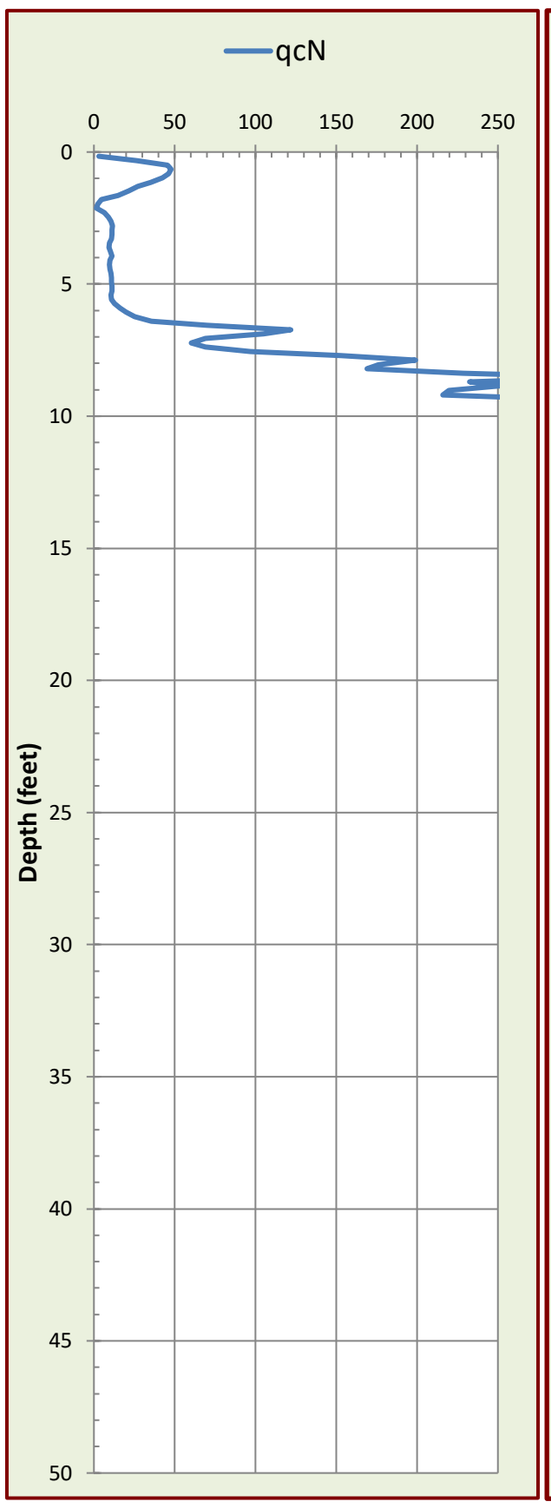
LDI[1] **Corrected for Distance** 0.00 (4 < L/H < 40)

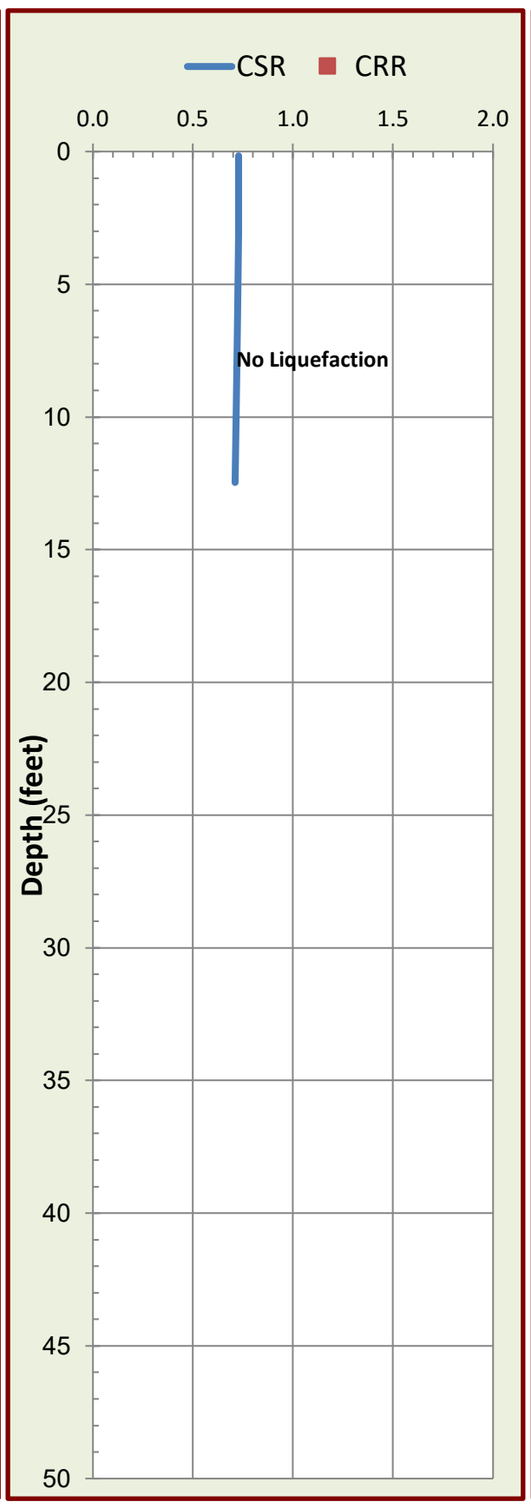
EXPECTED RANGE OF DISPLACEMENT

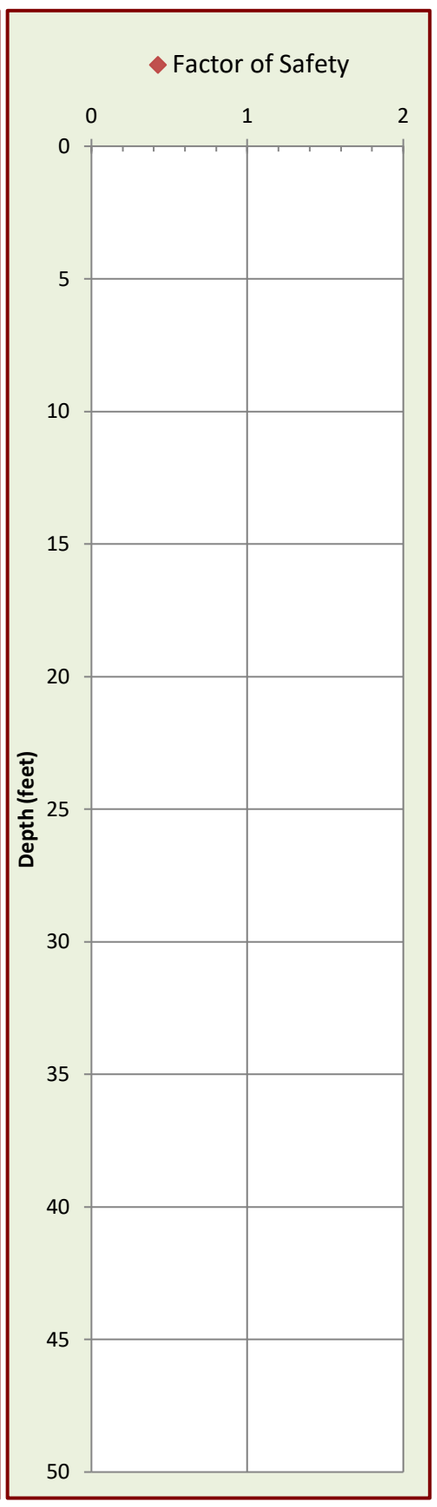
0.0 **to** **0.0** **feet**

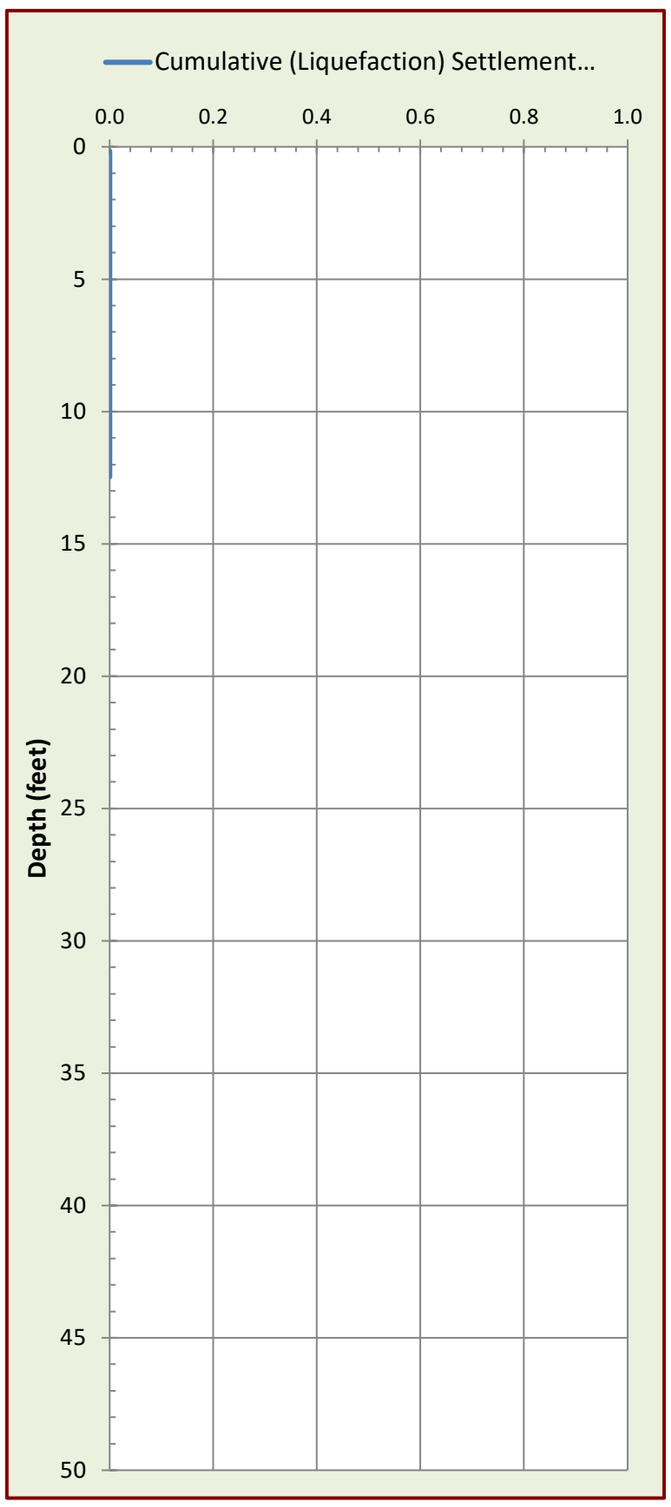
[1]Not Valid for L/H Values < 4 and > 40.

[2]LDI Values Only Summed to 2H Below Grade.









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FIGURE 4E

CPT NO. 5

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PROJECT/CPT DATA

Project Title	**Oka Road Residential**
Project No.	**1109-5-2**
Project Manager	**MFR**

SEISMIC PARAMETERS

Controlling Fault	**San Andreas: SAP+SAS**	
Earthquake Magnitude (Mw)	**7.6**	
PGA (Amax)	**1.12**	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	**18**
Design Water Depth (feet)	**15**
Ave. Unit Weight Above GW (pcf)	**120**
Ave. Unit Weight Below GW (pcf)	**125**

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM 15 **FEET**

0.26 **(Inches)**

LIQUEFACTION SETTLEMENT FROM 50 **FEET**

0.00 **(Inches)**

TOTAL SEISMIC SETTLEMENT 0.3 **INCHES**

POTENTIAL LATERAL DISPLACEMENT

LDI[2] 0.00 **L/H** 30.0

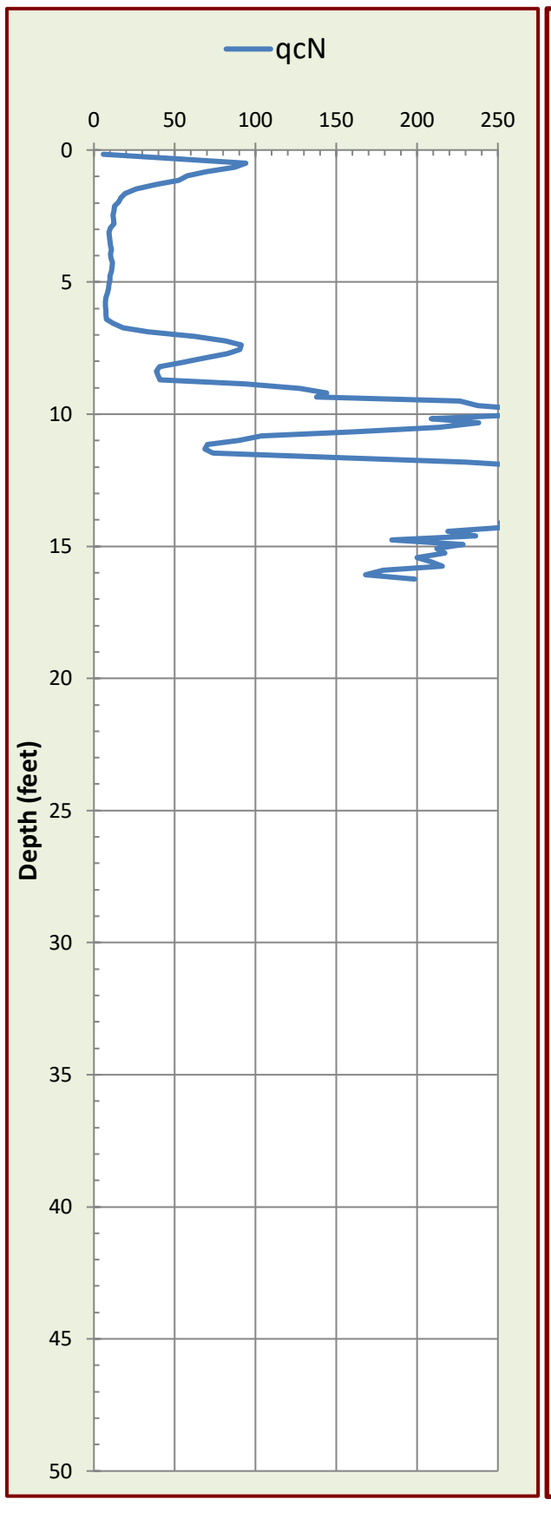
LDI[1] **Corrected for Distance** 0.00 (4 < L/H < 40)

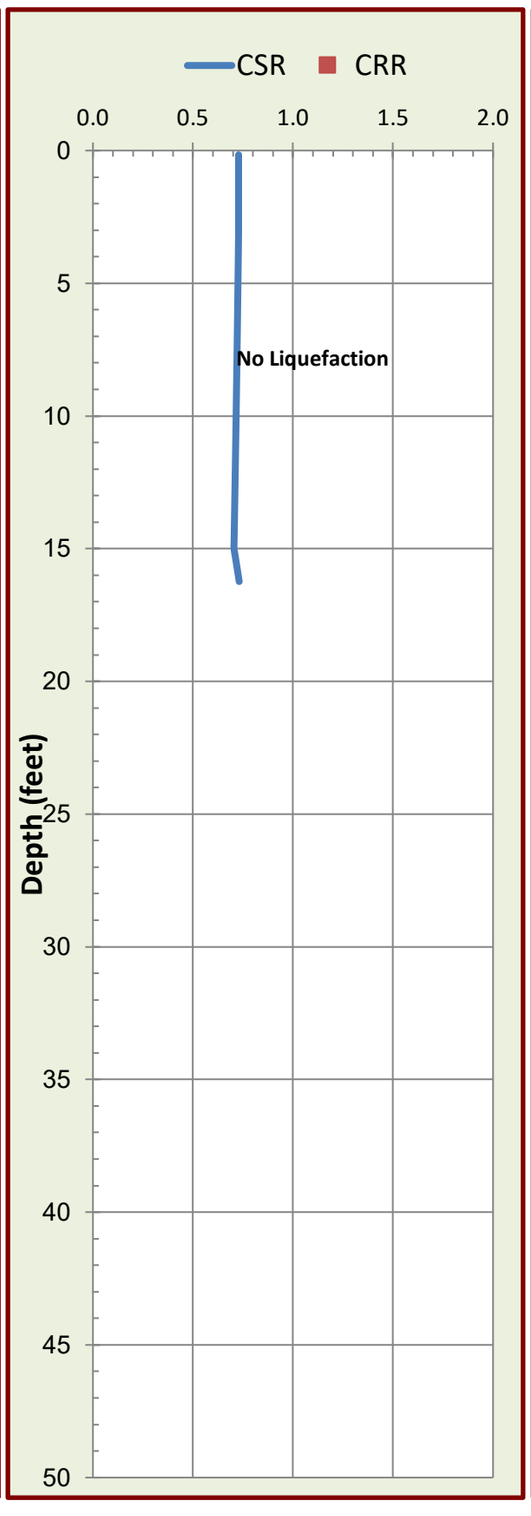
EXPECTED RANGE OF DISPLACEMENT

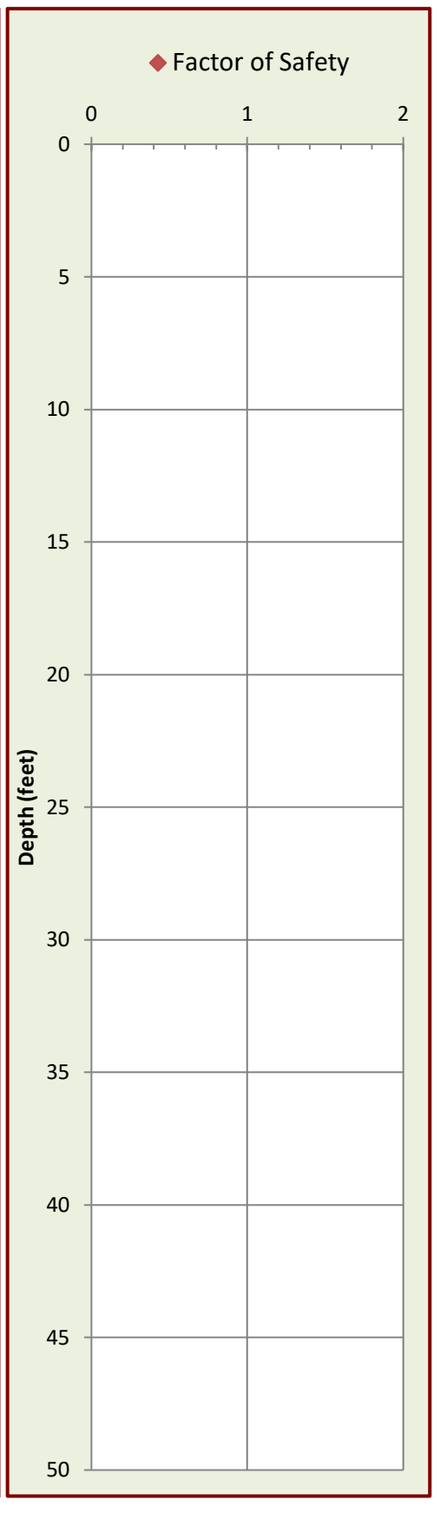
0.0 **to** **0.0** **feet**

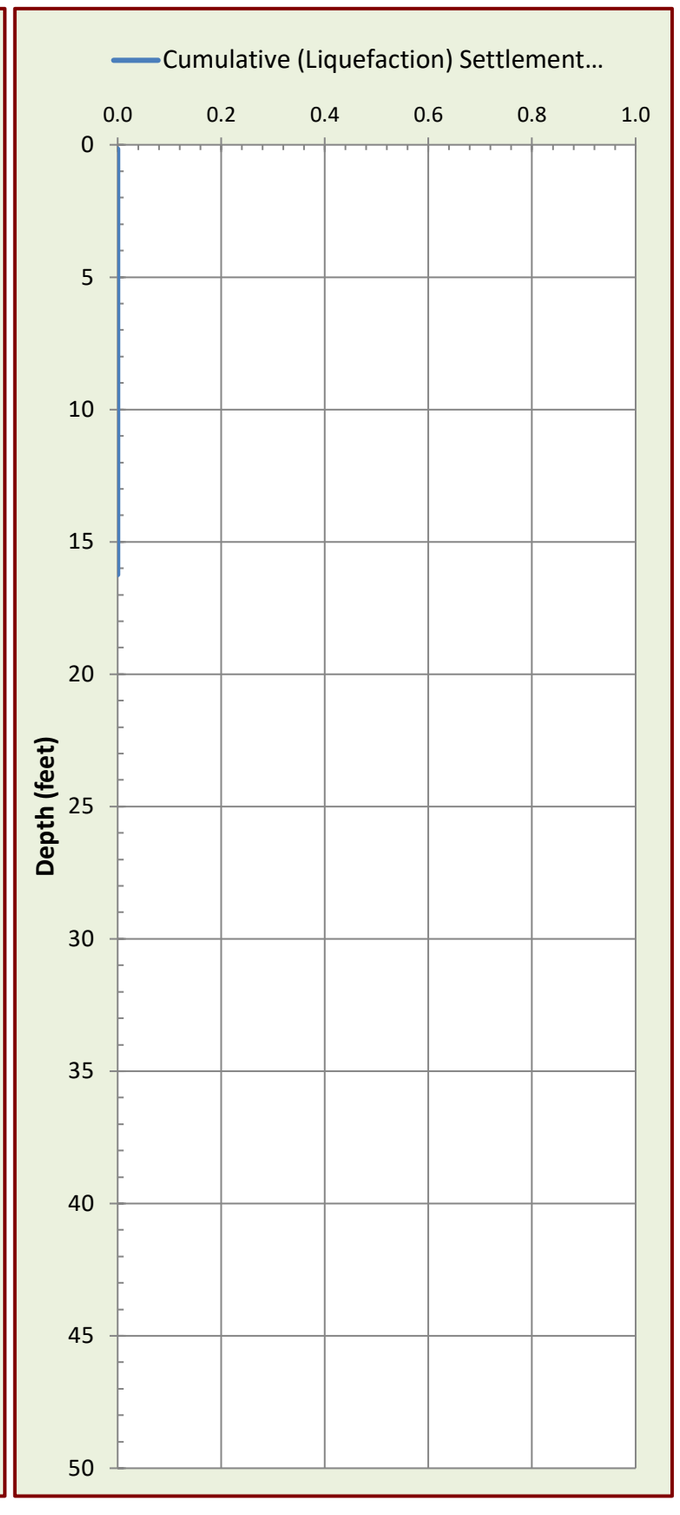
[1]Not Valid for L/H Values < 4 and > 40.

[2]LDI Values Only Summed to 2H Below Grade.









APPENDIX A: FIELD INVESTIGATION

The field investigation consisted of a surface reconnaissance and a subsurface exploration program using truck-mounted, hollow-stem auger drilling equipment and 25-ton truck-mounted Cone Penetration Test equipment. Three 8-inch-diameter exploratory borings were drilled on August 16, 2024, to depths of 20 to 45 feet. Five CPT soundings were also performed in accordance with ASTM D 5778-95 (revised, 2002) on August 12, 2024, to depths ranging from 13 to 47¼ feet. The approximate locations of exploratory borings and CPTs are shown on the Site Plan, Figure 2. The soils encountered were continuously logged in the field by our representative and described in accordance with the Unified Soil Classification System (ASTM D2488). Boring logs, as well as a key to the classification of the soil and bedrock, are included as part of this appendix.

Boring and CPT locations were approximated using existing site boundaries, a hand-held GPS unit, and other site features as references. Boring and CPT elevations were not determined. The locations of the borings and CPTs should be considered accurate only to the degree implied by the method used.

Representative soil samples were obtained from the borings at selected depths. All samples were returned to our laboratory for evaluation and appropriate testing. The standard penetration resistance blow counts were obtained by dropping a 140-pound hammer through a 30-inch free fall. The 2-inch O.D. split-spoon sampler was driven 18 inches and the number of blows was recorded for each 6 inches of penetration (ASTM D1586). 2.5-inch I.D. samples were obtained using a Modified California Sampler driven into the soil with the 140-pound hammer previously described. Unless otherwise indicated, the blows per foot recorded on the boring log represent the accumulated number of blows required to drive the last 12 inches. The various samplers are denoted at the appropriate depth on the boring logs.

The CPT involved advancing an instrumented cone-tipped probe into the ground while simultaneously recording the resistance at the cone tip (q_c) and along the friction sleeve (f_s) at approximately 5-centimeter intervals. Based on the tip resistance and tip to sleeve ratio (R_f), the CPT classified the soil behavior type and estimated engineering properties of the soil, such as equivalent Standard Penetration Test (SPT) blow count, internal friction angle within sand layers, and undrained shear strength in silts and clays. A pressure transducer behind the tip of the CPT cone measured pore water pressure (u_2). Graphical logs of the CPT data are included as part of this appendix.

Field tests included an evaluation of the unconfined compressive strength of the soil samples using a pocket penetrometer device. The results of these tests are presented on the individual boring logs at the appropriate sample depths.

Attached boring and CPT logs and related information depict subsurface conditions at the locations indicated and on the date designated on the logs. Subsurface conditions at other locations may differ from conditions occurring at these boring and CPT locations. The passage of time may result in altered subsurface conditions due to environmental changes. In addition,

any stratification lines on the logs represent the approximate boundary between soil types and the transition may be gradual.

BORING NUMBER EB-1

CORNERSTONE EARTH GROUP

PROJECT NAME Oka Road Residential
PROJECT NUMBER 1109-5-2
PROJECT LOCATION Los Gatos, CA

DATE STARTED 8/16/24 **DATE COMPLETED** 8/16/24
GROUND ELEVATION _____ **BORING DEPTH** 20 ft.
DRILLING CONTRACTOR Exploration Geoservices, Inc.
LATITUDE 37.2540034° **LONGITUDE** -121.9615912°
DRILLING METHOD Mobile B-53, 8 inch Hollow-Stem Auger
GROUND WATER LEVELS:
LOGGED BY JDS
AT TIME OF DRILLING Not Encountered
NOTES _____
AT END OF DRILLING Not Encountered

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE
	0		**Silty Sand (SM)** medium dense, moist, dark brown to brown, fine to medium sand large tree root at 1.5 feet *disturbed sample recovery*	23	MC-1B		15		
				19	MC-2B	90	9		39
	5		**Well Graded Sand with Silt and Gravel (SW-SM)** dense, moist, brown, fine coarse sand, fine to coarse subangular to subrounded gravel	35	SPT-3		3		
				29	SPT-4		4		
	10			49	SPT				
			Well Graded Gravel with Silt and Sand (GW-GM) very dense, moist, brown, fine to coarse sand, fine to coarse subangular to subrounded gravel, some cobbles	65	SPT-6		7		
	15								
			Well Graded Gravel with Clayey and Sand (GW-GC) very dense, moist, brown, fine to coarse sand, fine to coarse subangular to subrounded gravel, some cobbles	76	SPT				
	20		Bottom of Boring at 20.0 feet.						
	25								

UNDRAINED SHEAR STRENGTH, ksf
○ HAND PENETROMETER
△ TORVANE
● UNCONFINED COMPRESSION
▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL
1.0 2.0 3.0 4.0

CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 8/26/24 10:11 - P:\DRAFTING\GINT FILES\1109-5-2 OKA ROAD.GPJ

BORING NUMBER EB-2

CORNERSTONE EARTH GROUP

PROJECT NAME Oka Road Residential
PROJECT NUMBER 1109-5-2
PROJECT LOCATION Los Gatos, CA

DATE STARTED 8/16/24 **DATE COMPLETED** 8/16/24
GROUND ELEVATION _____ **BORING DEPTH** 45 ft.
DRILLING CONTRACTOR Exploration Geoservices, Inc.
LATITUDE 37.2553140° **LONGITUDE** -121.9607892°
DRILLING METHOD Mobile B-53, 8 inch Hollow-Stem Auger
GROUND WATER LEVELS:
LOGGED BY JDS
▽ **AT TIME OF DRILLING** Not Encountered
NOTES _____
▼ **AT END OF DRILLING** Not Encountered

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE
	0		**Silty, Clayey Sand (SC-SM)** loose, moist, dark brown to brown, fine to medium sand	6	MC-1B	94	14		
				9	MC-2B	102	16		
	5			10	MC-3B	103	14		36
			Well Graded Sand with Silt and Gravel (SW-SM) dense, moist, brown, fine coarse sand, fine to coarse subangular to subrounded gravel	38	SPT-4		3		
	10								
				28	SPT-5		6		11
	15			32	SPT				
			Well Graded Gravel with Silt and Sand (GW-GM) very dense, moist, brown, fine to coarse sand, fine to coarse subangular to subrounded gravel, some cobbles	95	SPT-7		6		
				50/6"	SPT				
	20								
				50/3"	SPT-9		17		
	25								

Continued Next Page

UNDRAINED SHEAR STRENGTH, ksf
○ HAND PENETROMETER
△ TORVANE
● UNCONFINED COMPRESSION
▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL
1.0 2.0 3.0 4.0

CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 8/26/24 10:11 - P:\DRAFTING\GINT FILES\1109-5-2 OKA ROAD.GPJ

BORING NUMBER EB-2

CORNERSTONE EARTH GROUP

PROJECT NAME Oka Road Residential

PROJECT NUMBER 1109-5-2

PROJECT LOCATION Los Gatos, CA

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf
										○ HAND PENETROMETER △ TORVANE ● UNCONFINED COMPRESSION ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL 1.0 2.0 3.0 4.0
			Clayey Sand with Gravel (SC) very dense, moist, brown, fine to coarse subangular to subrounded gravel	84	SPT					
	30									
				74	SPT-11		14			
	35									
				68	SPT					
	40									
				56	SPT-13		13			
	45		Bottom of Boring at 45.0 feet.							
	50									
	55									

CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 8/26/24 10:11 - P:\DRAFTING\GINT FILES\1109-5-2 OKA ROAD.GPJ

BORING NUMBER EB-3

CORNERSTONE EARTH GROUP

PROJECT NAME Oka Road Residential
PROJECT NUMBER 1109-5-2
PROJECT LOCATION Los Gatos, CA

DATE STARTED 8/16/24 **DATE COMPLETED** 8/16/24
GROUND ELEVATION _____ **BORING DEPTH** 20 ft.
DRILLING CONTRACTOR Exploration Geoservices, Inc.
LATITUDE 37.2535033° **LONGITUDE** -121.9605166°
DRILLING METHOD Mobile B-53, 8 inch Hollow-Stem Auger
GROUND WATER LEVELS:
LOGGED BY JDS
▽ **AT TIME OF DRILLING** Not Encountered
NOTES _____
▼ **AT END OF DRILLING** Not Encountered

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE
	0		**Sandy Lean Clay (CL)** stiff, moist, dark brown to brown, fine to medium sand, low plasticity Liquid Limit = 28, Plastic Limit = 15	6	MC-1B	98	19	13	
				6	MC-2B	102	17		
	5			8	MC-3B	105	19		
			Well Graded Gravel with Silt and Sand (GW-GM) very dense, moist, brown, fine to coase sand, fine to coarse subangular to subrounded gravel, some cobbles	50/6"	SPT				
	10		**Silty Sand with Gravel (SM)** very dense, moist, brown, fine to medium sand, fine to coarse subangular to subrounded gravel						
	15			66	SPT-5		6		
			Clayey Sand with Gravel (SC) very dense, moist, brown, fine to medium sand, fine to coarse subangular to subrounded gravel	90	SPT				
	20		Bottom of Boring at 20.0 feet.						
	25								

UNDRAINED SHEAR STRENGTH, ksf
○ HAND PENETROMETER
△ TORVANE
● UNCONFINED COMPRESSION
▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL
1.0 2.0 3.0 4.0

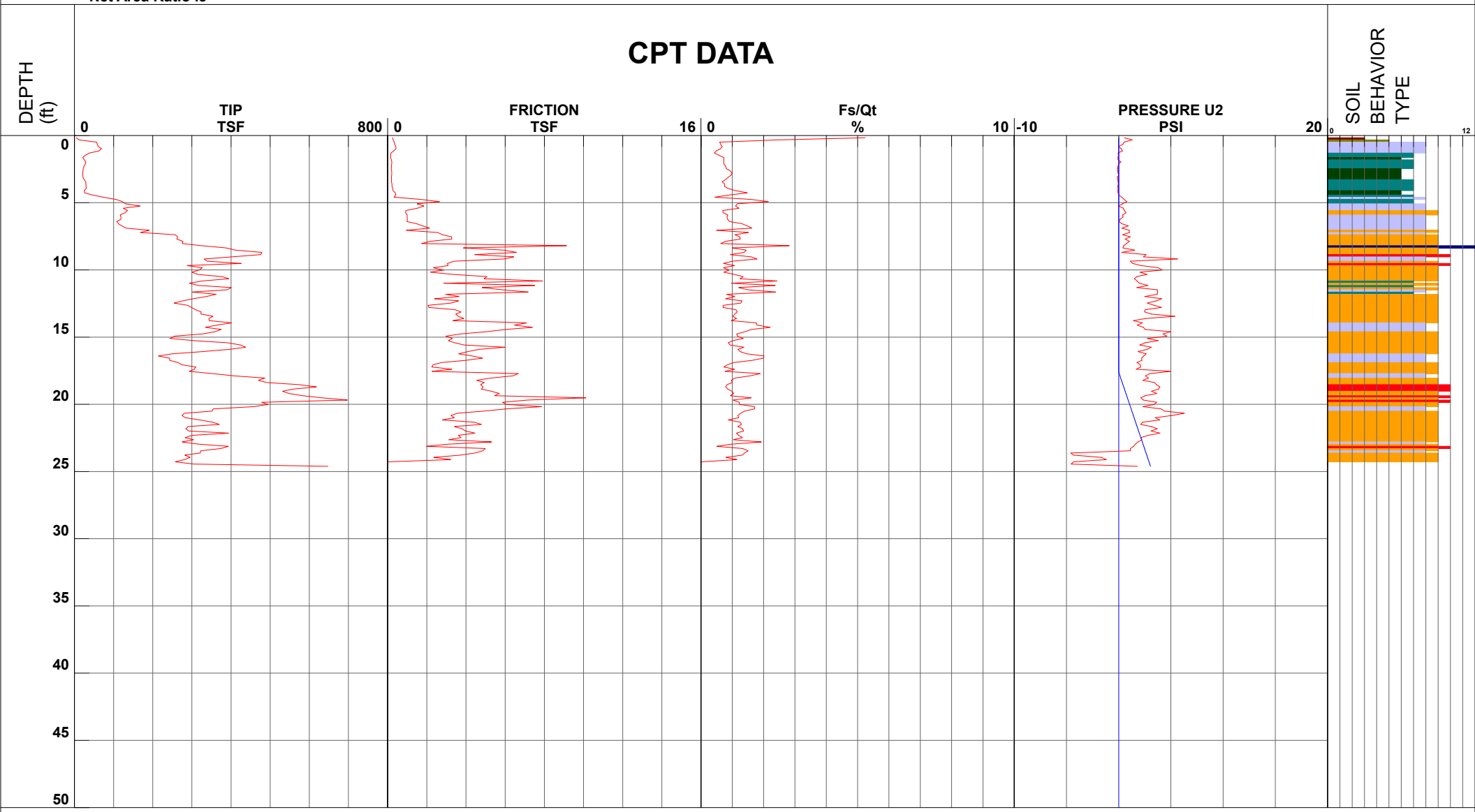
CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 8/26/24 10:11 - P:\DRAFTING\GINT FILES\1109-5-2 OKA ROAD.GPJ

Cornerstone Earth Group

Project	Oka Road Residential	Operator	JM-IY	Filename	SDF(156).cpt
Job Number	1109-5-2	Cone Number	DDG1589	GPS	
Hole Number	CPT-01	Date and Time	8/12/2024 1:12:58 PM	Maximum Depth	24.61 ft
EST GW Depth During Test		17.60 ft			

Net Area Ratio .8

CPT DATA



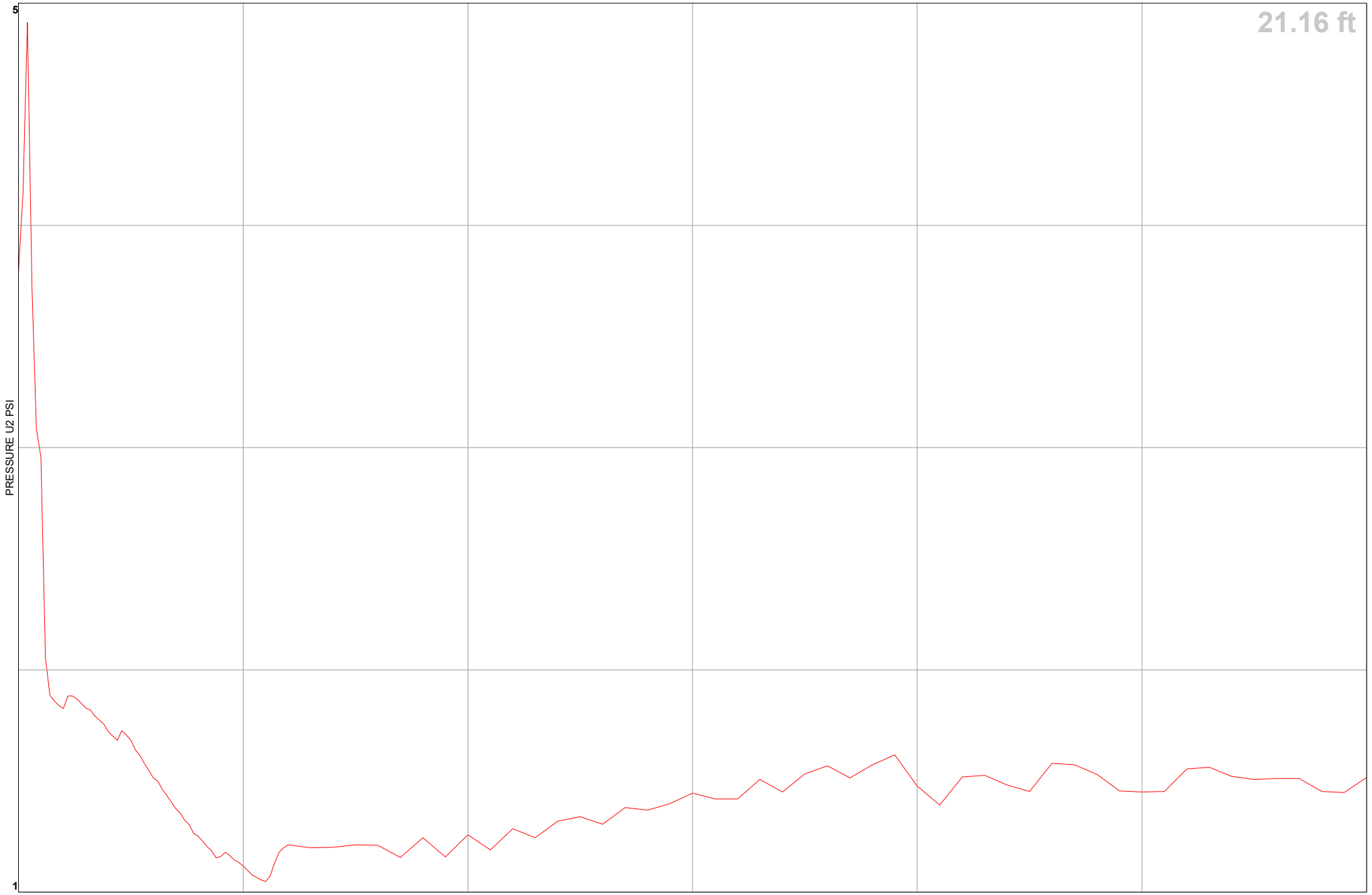
1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

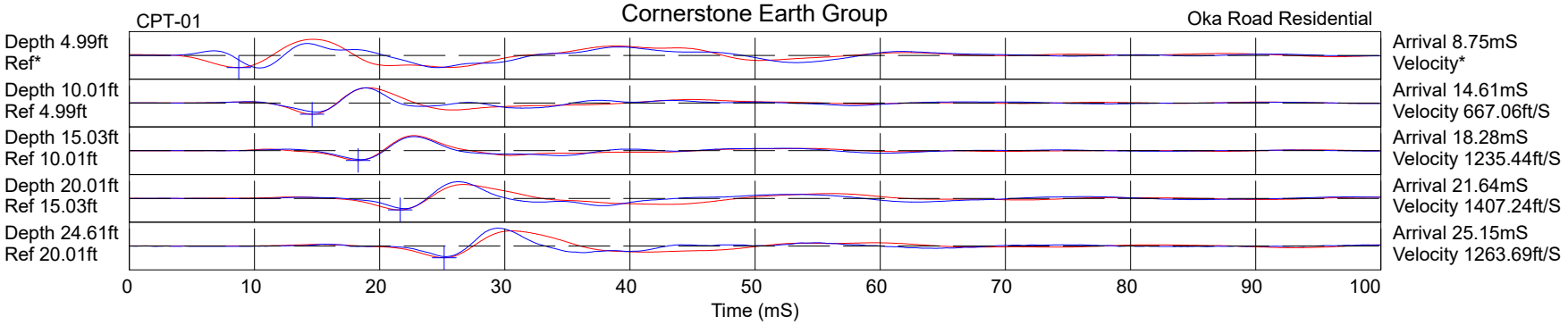
Cone Size 15cm²

S*Soil behavior type and SPT based on data from UBC-1983

Cornerstone Earth Group

Location	Oka Road Residential	Operator	JM-IY	GPS	
Job Number	1109-5-2	Cone Number	DDG1589		
Hole Number	CPT-01	Date and Time	8/12/2024 1:12:58 PM		
Equilized Pressure	1.5	EST GW Depth During Test	17.6		





Hammer to Rod String Distance (ft): 5.83
* = Not Determined

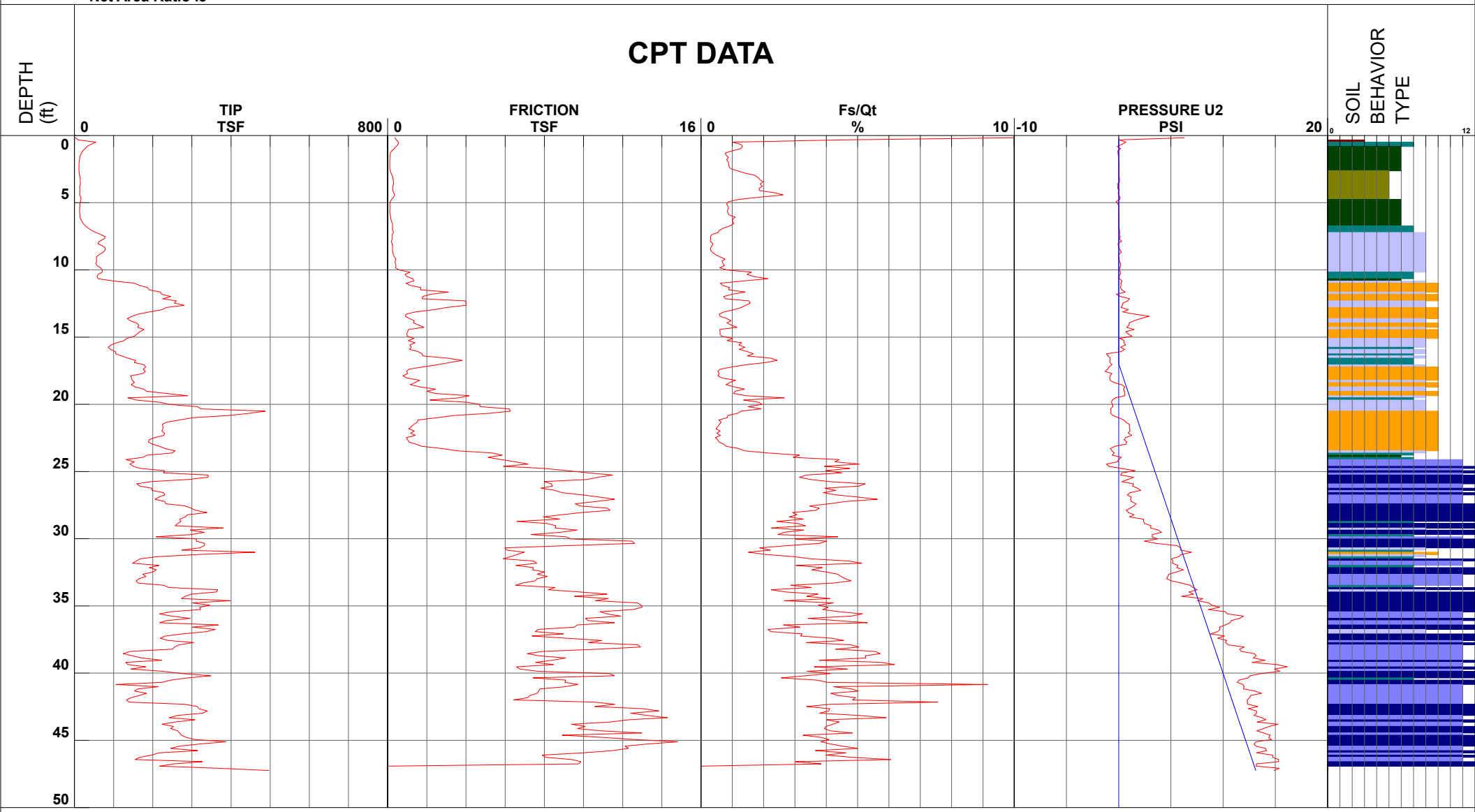
COMMENT:

Cornerstone Earth Group

Project	Oka Road Residential	Operator	JM-IY	Filename	SDF(153).cpt
Job Number	1109-5-2	Cone Number	DDG1589	GPS	
Hole Number	CPT-02	Date and Time	8/12/2024 9:52:53 AM	Maximum Depth	47.24 ft
EST GW Depth During Test		17.00 ft			

Net Area Ratio .8

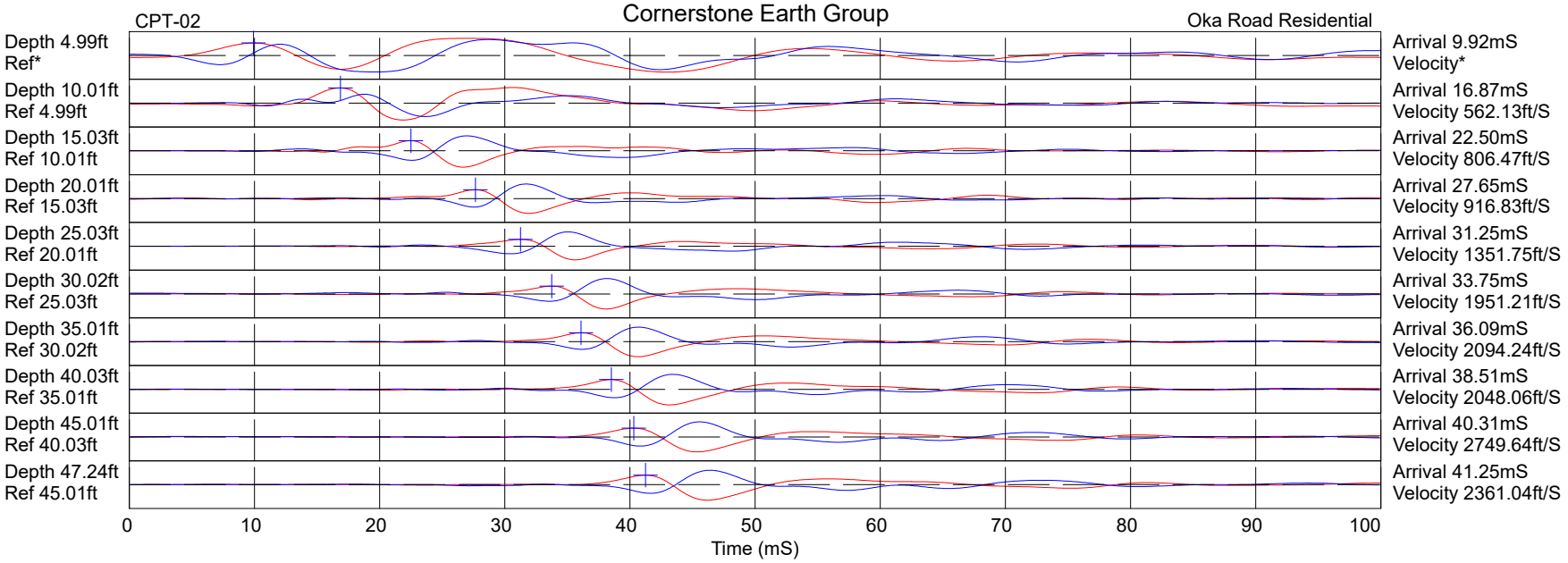
CPT DATA



1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 15cm²

S*Soil behavior type and SPT based on data from UBC-1983



Hammer to Rod String Distance (ft): 5.83
* = Not Determined

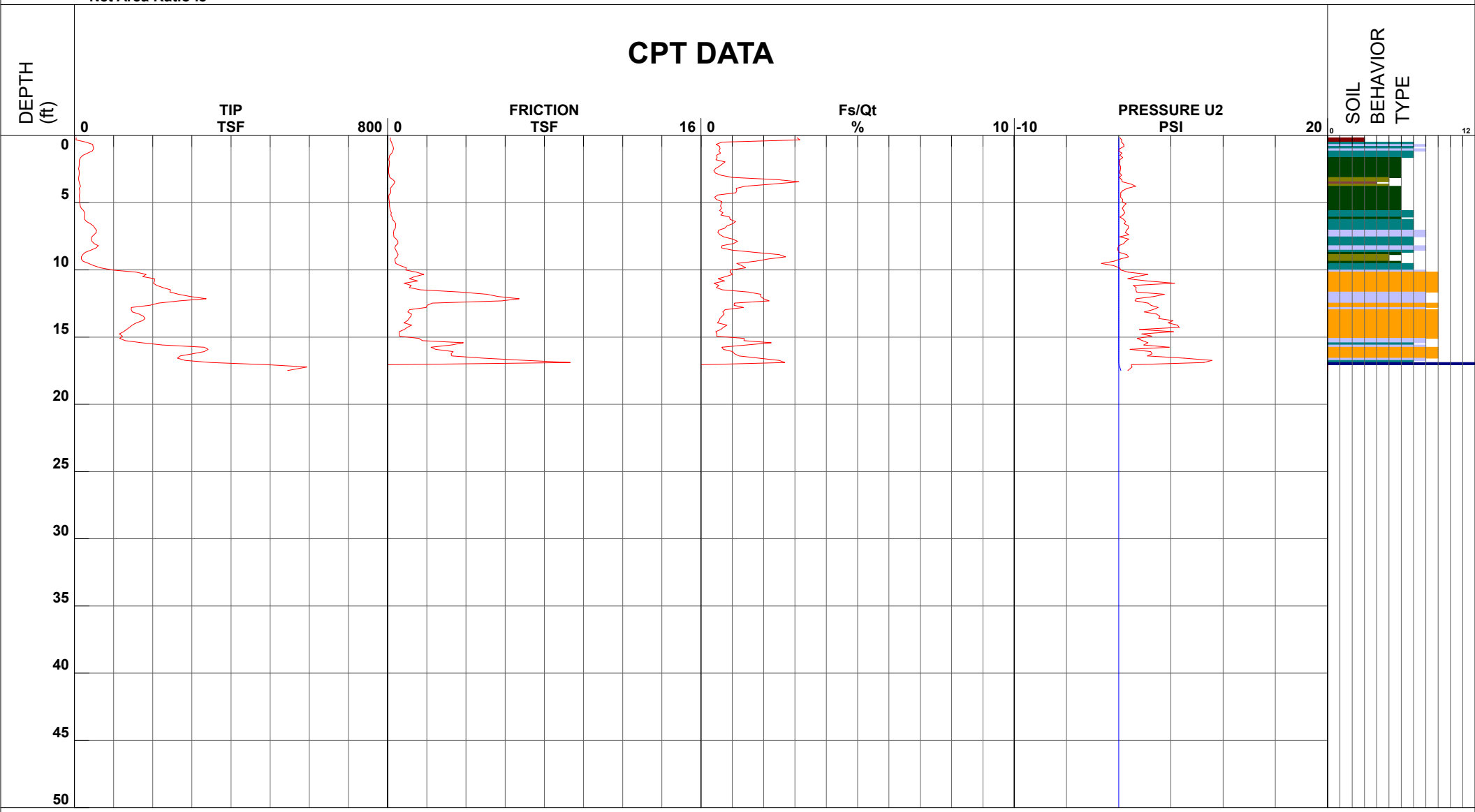
COMMENT:

Cornerstone Earth Group

Project	Oka Road Residential	Operator	JM-IY	Filename	SDF(151).cpt
Job Number	1109-5-2	Cone Number	DDG1589	GPS	
Hole Number	CPT-03	Date and Time	8/12/2024 8:20:35 AM	Maximum Depth	17.49 ft
EST GW Depth During Test		17.00 ft			

Net Area Ratio .8

CPT DATA

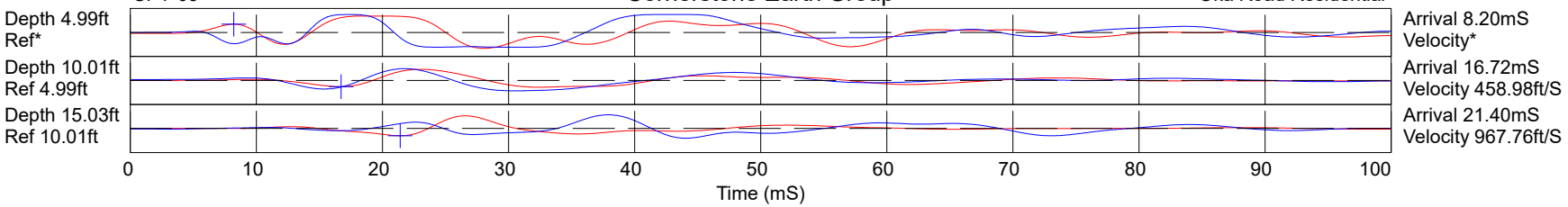


1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 15cm²

S*Soil behavior type and SPT based on data from UBC-1983

CPT-03 Cornerstone Earth Group Oka Road Residential



Hammer to Rod String Distance (ft): 5.83
* = Not Determined

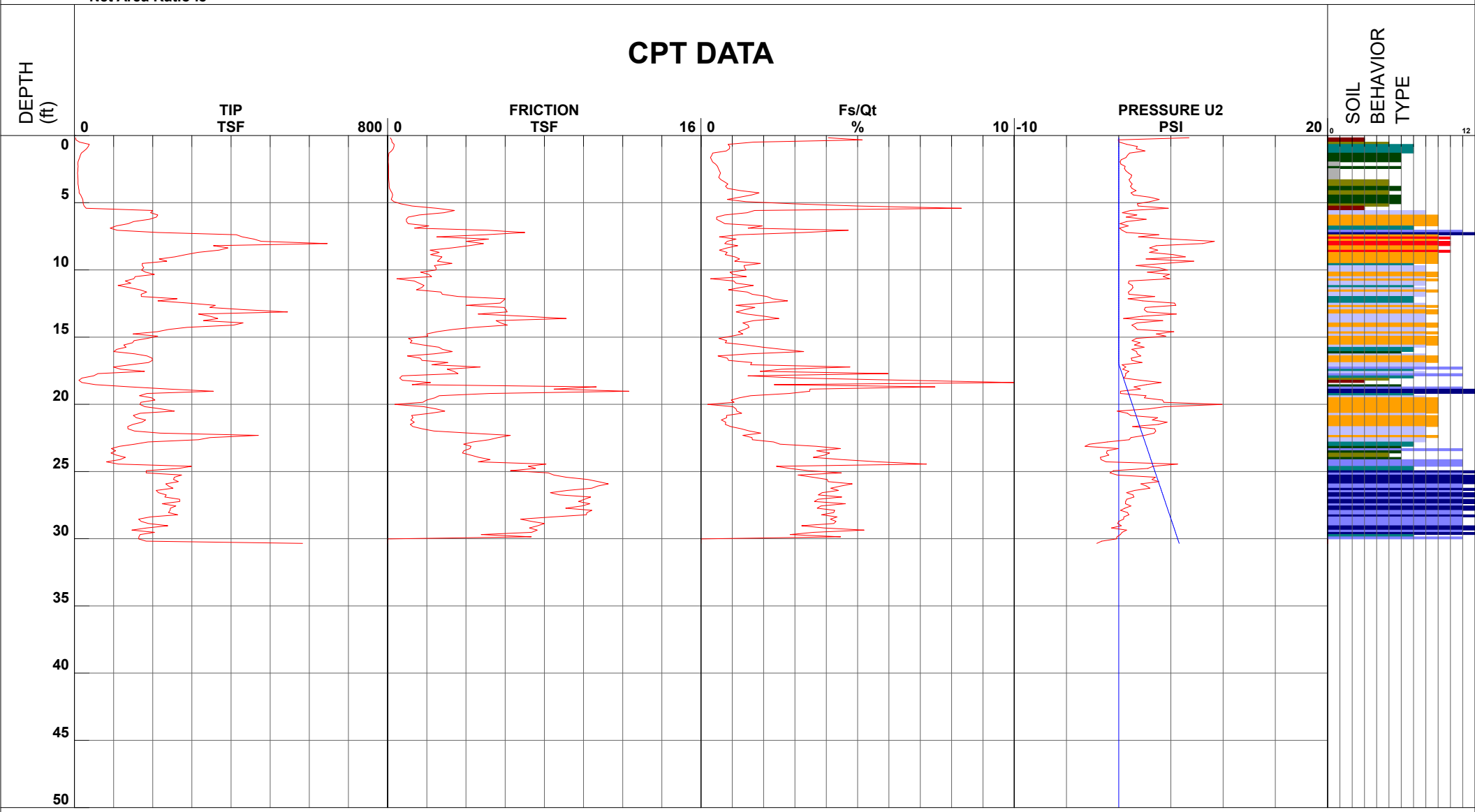
COMMENT:

Cornerstone Earth Group

Project	Oka Road Residential	Operator	JM-IY	Filename	SDF(152).cpt
Job Number	1109-5-2	Cone Number	DDG1589	GPS	
Hole Number	CPT-03A	Date and Time	8/12/2024 8:59:54 AM	Maximum Depth	30.35 ft
EST GW Depth During Test		17.00 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

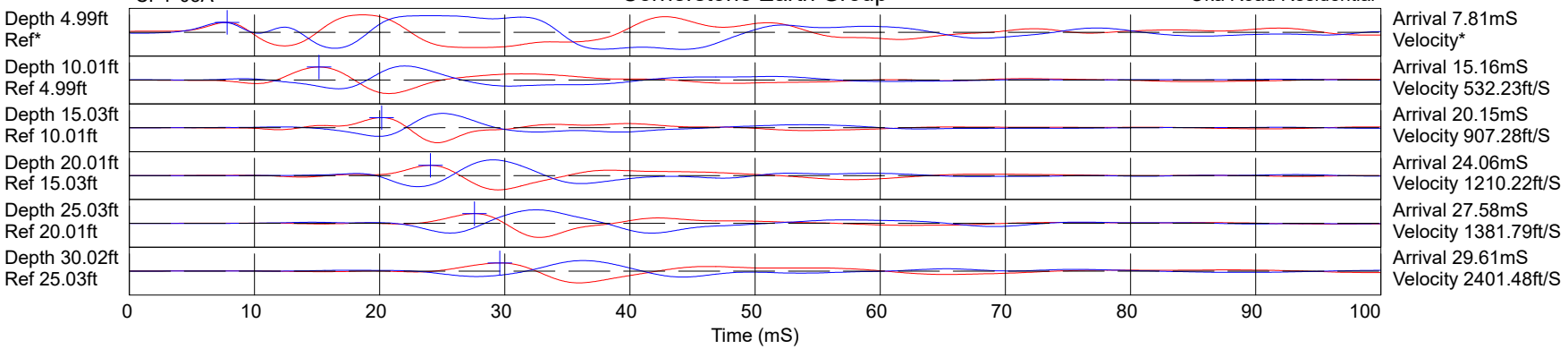
Cone Size 15cm²

S*Soil behavior type and SPT based on data from UBC-1983

CPT-03A

Cornerstone Earth Group

Oka Road Residential



Hammer to Rod String Distance (ft): 5.83

* = Not Determined

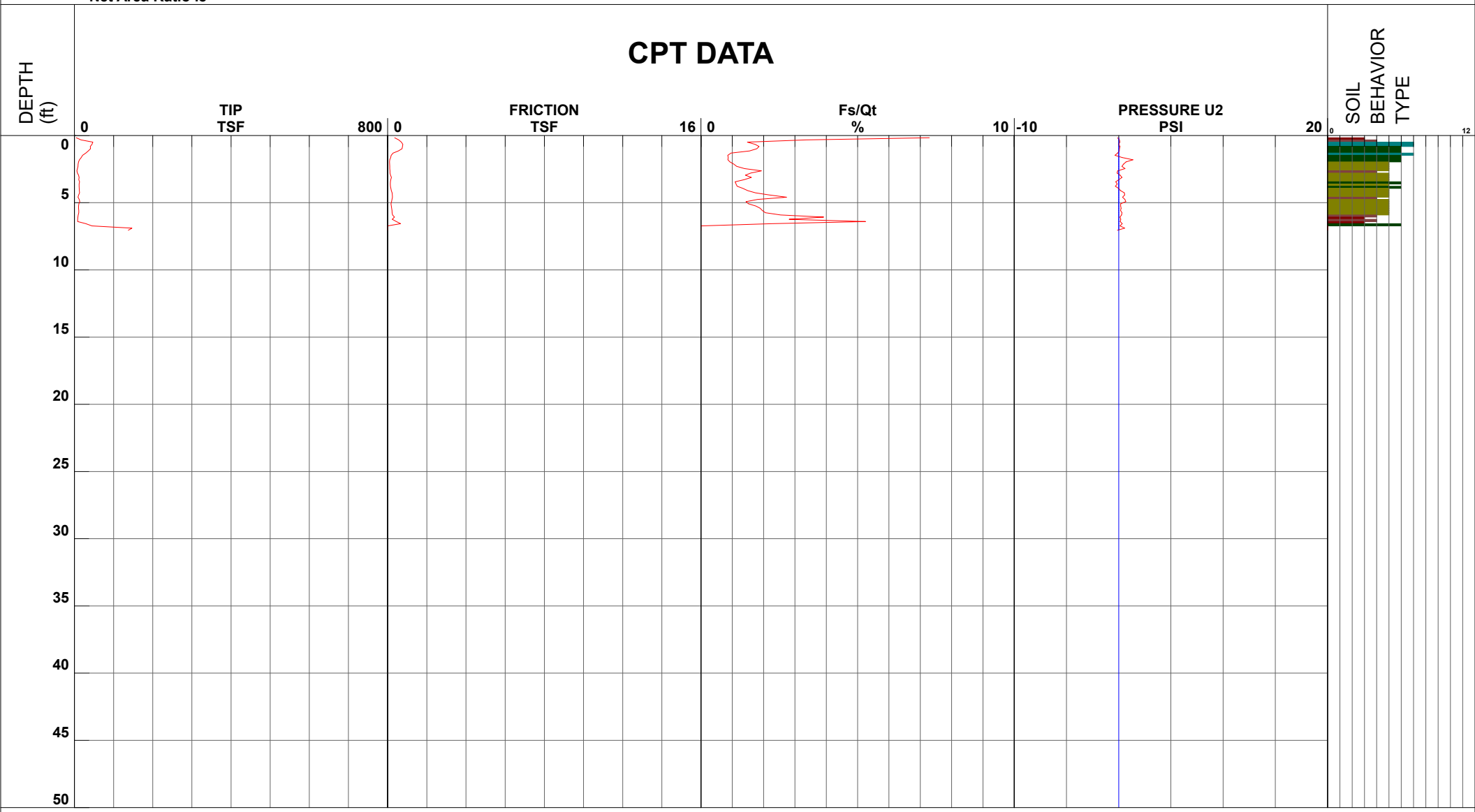
COMMENT:

Cornerstone Earth Group

Project	Oka Road Residential	Operator	JM-IY	Filename	SDF(157).cpt
Job Number	1109-5-2	Cone Number	DDG1589	GPS	
Hole Number	CPT-04	Date and Time	8/12/2024 1:47:22 PM	Maximum Depth	7.05 ft
EST GW Depth During Test		17.00 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 15cm²

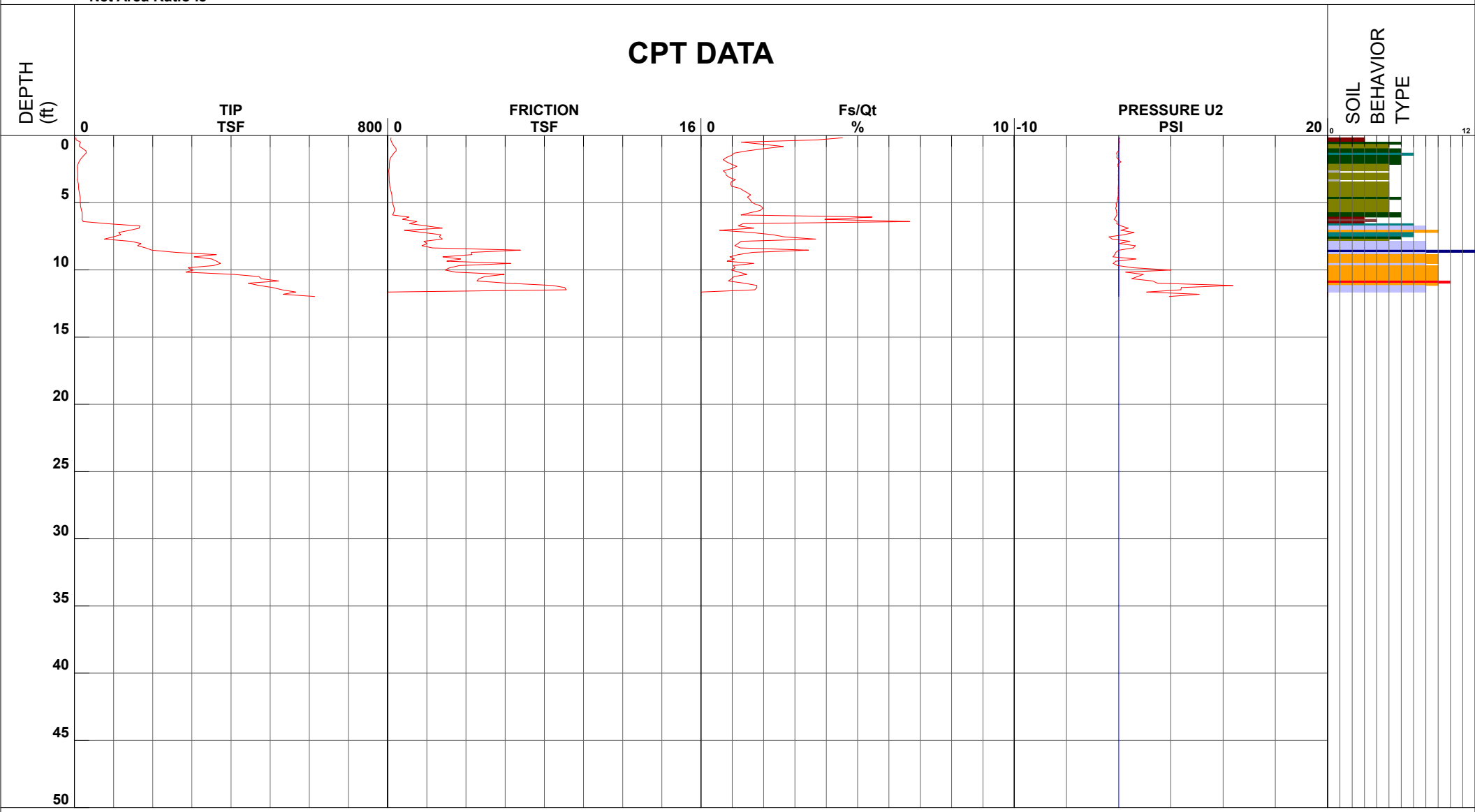
S*Soil behavior type and SPT based on data from UBC-1983

Cornerstone Earth Group

Project	Oka Road Residential	Operator	JM-IY	Filename	SDF(158).cpt
Job Number	1109-5-2	Cone Number	DDG1589	GPS	
Hole Number	CPT-04A	Date and Time	8/12/2024 1:58:07 PM	Maximum Depth	11.97 ft
EST GW Depth During Test		17.00 ft			

Net Area Ratio .8

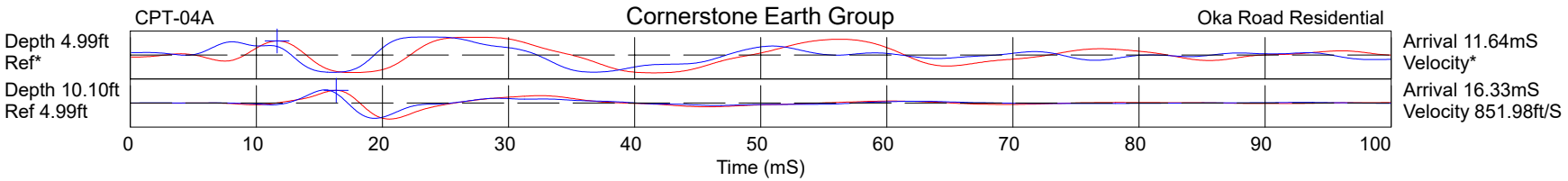
CPT DATA



1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 15cm²

S*Soil behavior type and SPT based on data from UBC-1983



Hammer to Rod String Distance (ft): 5.83
* = Not Determined

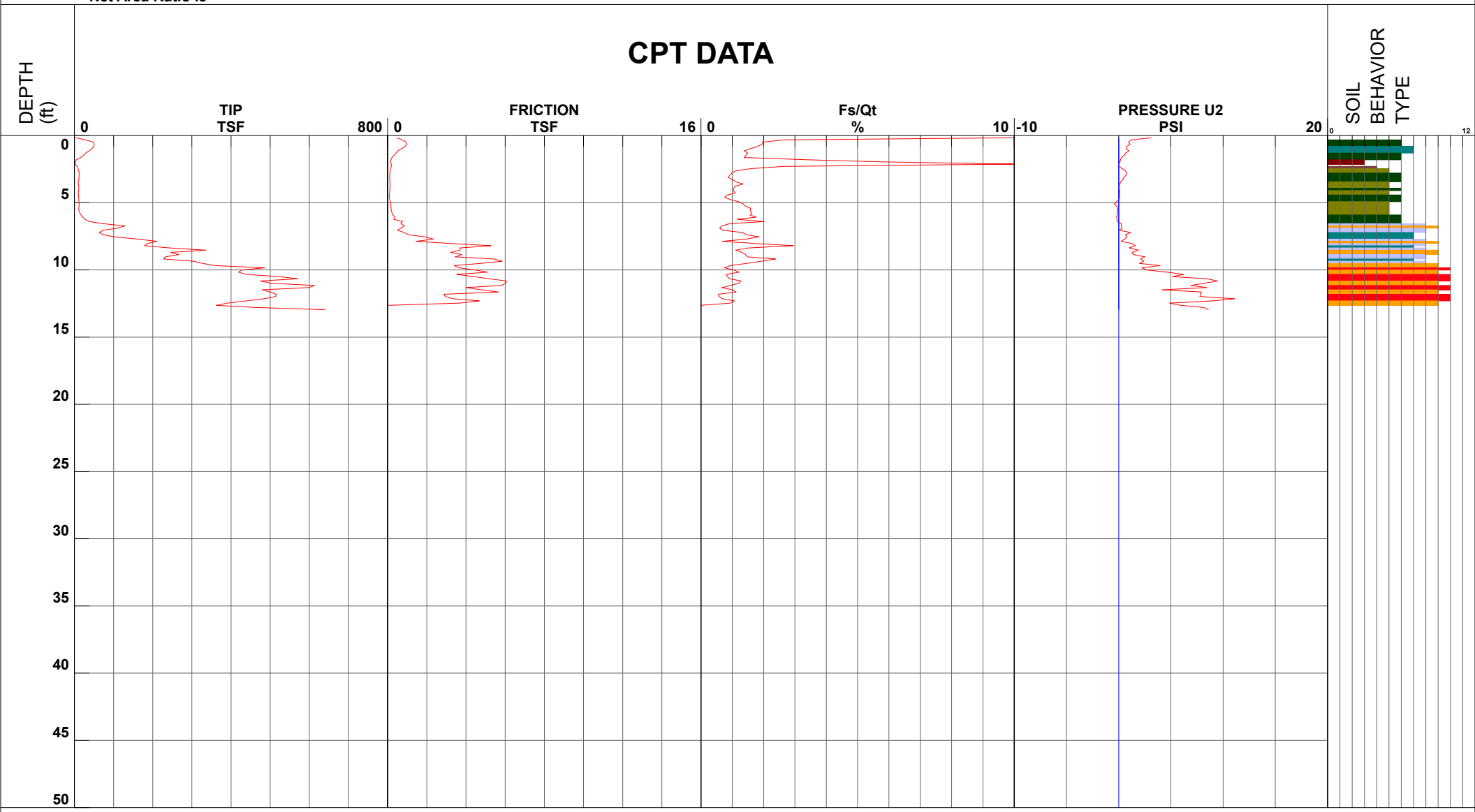
COMMENT:

Cornerstone Earth Group

Project	Oka Road Residential	Operator	JM-IY	Filename	SDF(159).cpt
Job Number	1109-5-2	Cone Number	DDG1589	GPS	
Hole Number	CPT-04B	Date and Time	8/12/2024 2:11:21 PM	Maximum Depth	12.96 ft
EST GW Depth During Test		17.00 ft			

Net Area Ratio .8

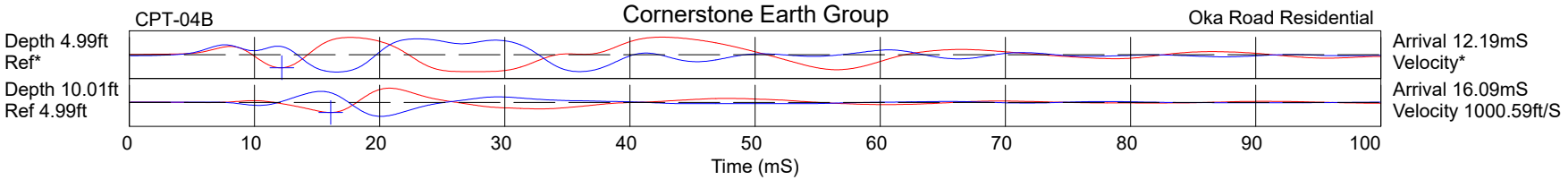
CPT DATA



1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 15cm²

S*Soil behavior type and SPT based on data from UBC-1983



Hammer to Rod String Distance (ft): 5.83
* = Not Determined

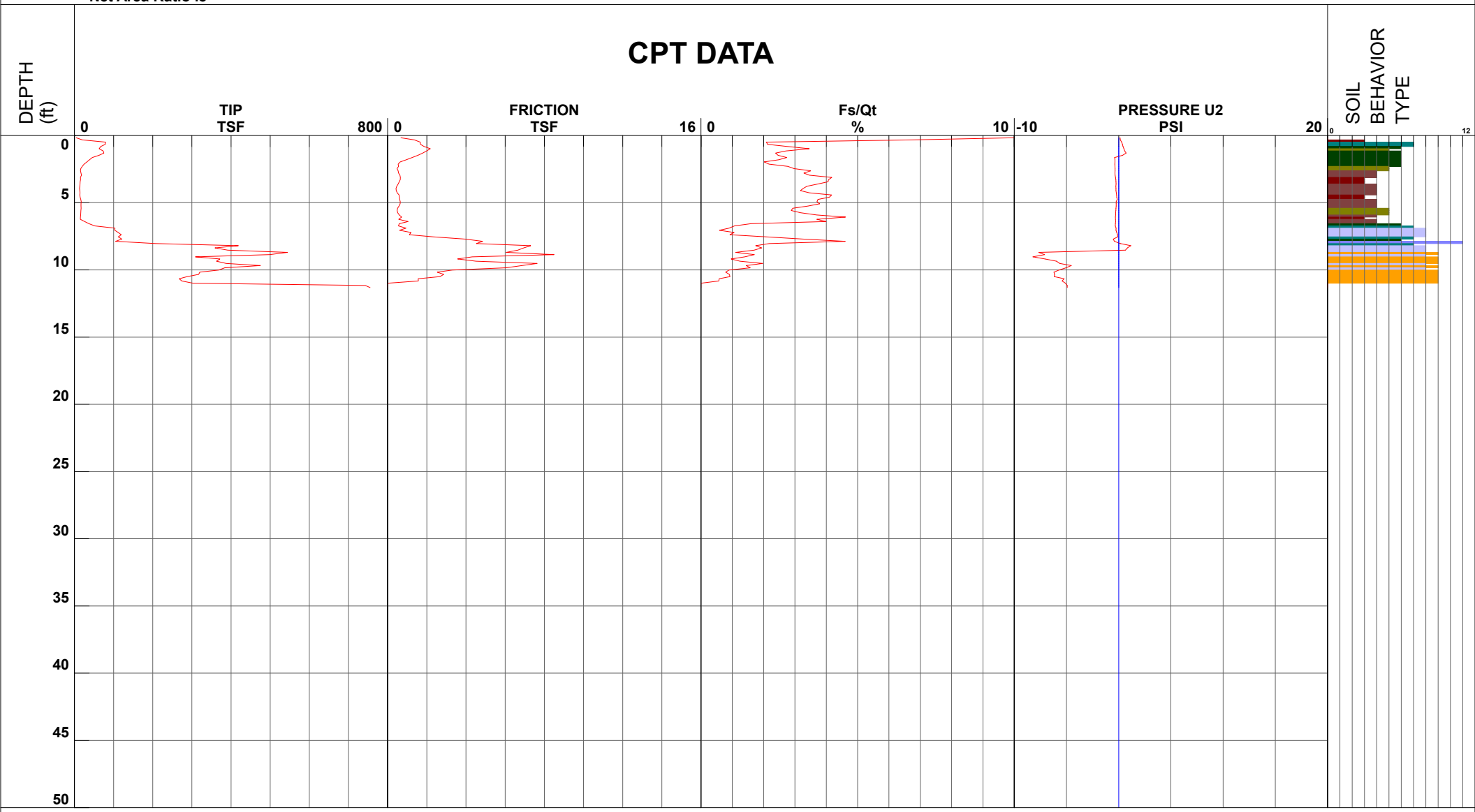
COMMENT:

Cornerstone Earth Group

Project	Oka Road Residential	Operator	JM-IY	Filename	SDF(154).cpt
Job Number	1109-5-2	Cone Number	DDG1589	GPS	
Hole Number	CPT-05	Date and Time	8/12/2024 11:51:05 AM	Maximum Depth	11.32 ft
EST GW Depth During Test		17.00 ft			

Net Area Ratio .8

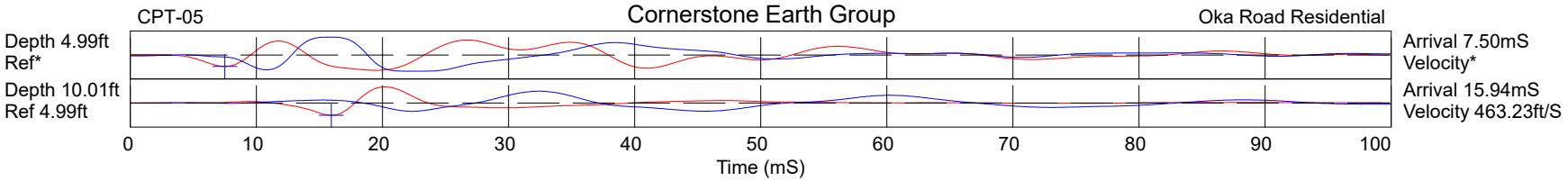
CPT DATA



1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 15cm²

S*Soil behavior type and SPT based on data from UBC-1983



Hammer to Rod String Distance (ft): 5.83
* = Not Determined

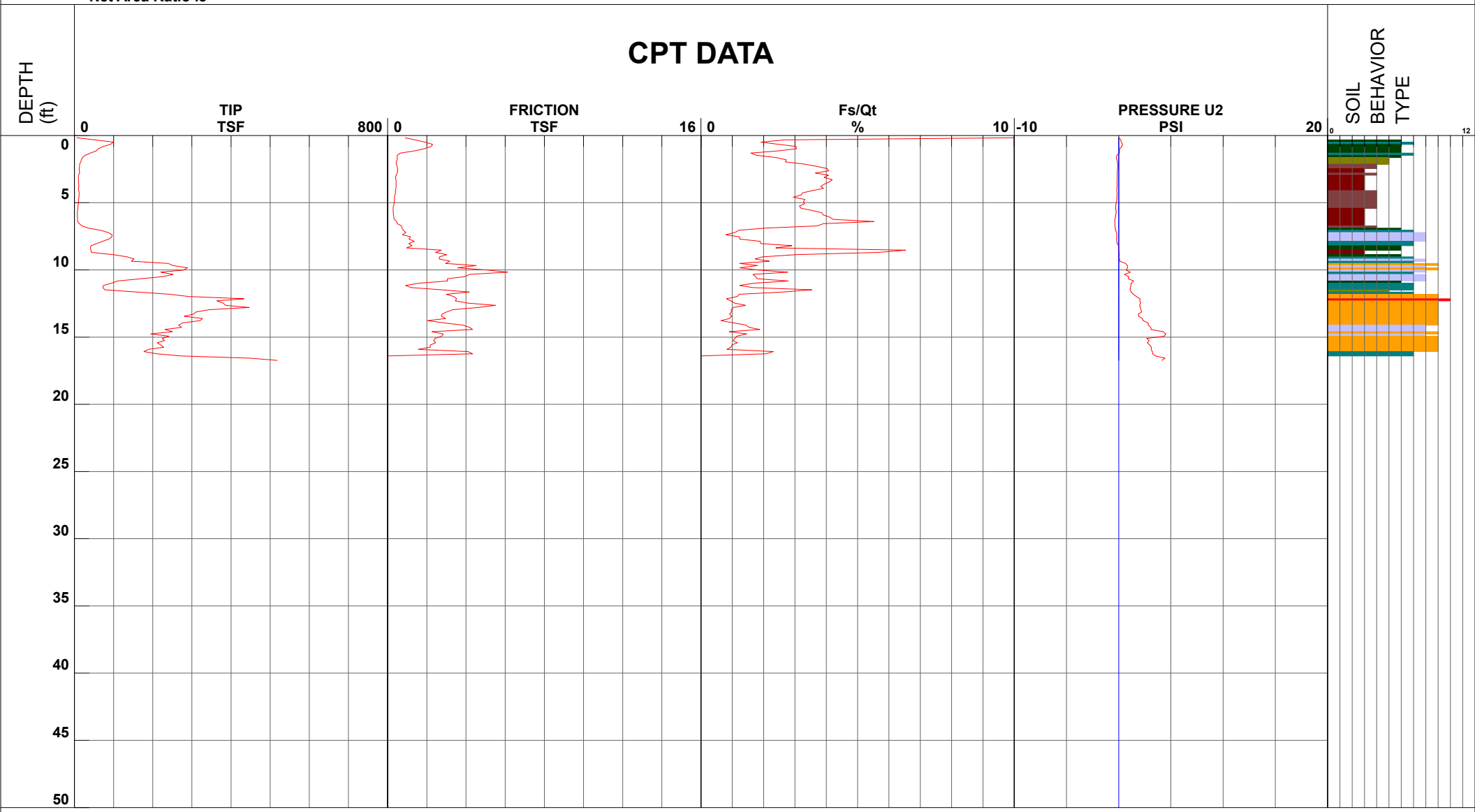
COMMENT:

Cornerstone Earth Group

Project	Oka Road Residential	Operator	JM-IY	Filename	SDF(155).cpt
Job Number	1109-5-2	Cone Number	DDG1589	GPS	
Hole Number	CPT-05A	Date and Time	8/12/2024 12:33:43 PM	Maximum Depth	16.73 ft
EST GW Depth During Test		17.00 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

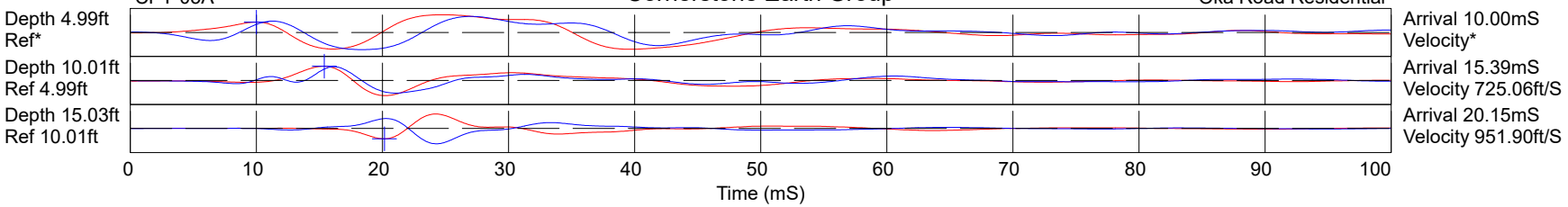
Cone Size 15cm²

S*Soil behavior type and SPT based on data from UBC-1983

CPT-05A

Cornerstone Earth Group

Oka Road Residential



Hammer to Rod String Distance (ft): 5.83
* = Not Determined

COMMENT:

APPENDIX B: LABORATORY TEST PROGRAM

The laboratory testing program was performed to evaluate the physical and mechanical properties of the soils retrieved from the site to aid in verifying soil classification.

Moisture Content: The natural water content was determined (ASTM D2216) on 18 samples of the materials recovered from the borings. These water contents are recorded on the boring logs at the appropriate sample depths.

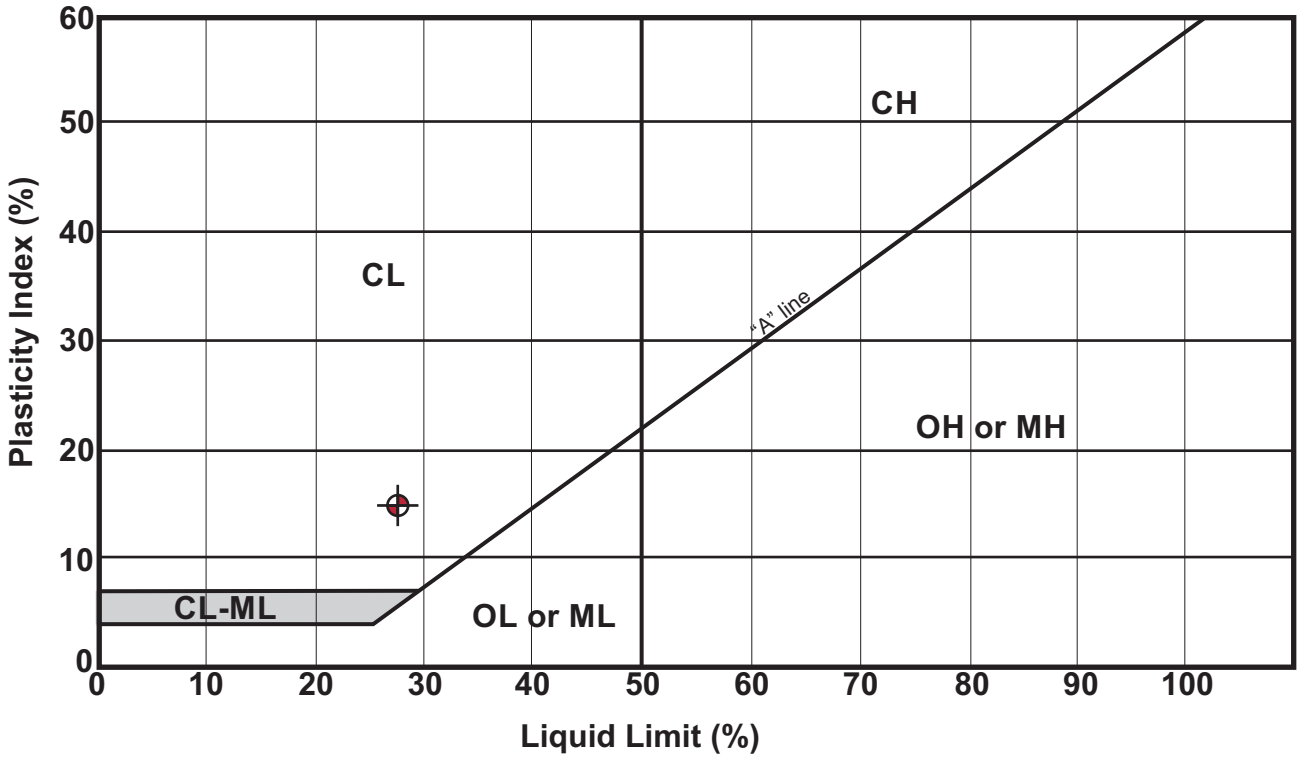
Dry Densities: In place dry density determinations (ASTM D2937) were performed on seven samples to measure the unit weight of the subsurface soils. Results of these tests are shown on the boring logs at the appropriate sample depths.

Washed Sieve Analyses: The percent soil fraction passing the No. 200 sieve (ASTM D1140) was determined on three samples of the subsurface soils to aid in the classification of these soils. Results of these tests are shown on the boring logs at the appropriate sample depths.

Plasticity Index: One Plasticity Index determination (ASTM D4318) was performed on a sample of the subsurface soil to measure the range of water contents over which this material exhibits plasticity. The Plasticity Index was used to classify the soil in accordance with the Unified Soil Classification System and to evaluate the soil expansion potential. Results of this test are shown on the boring log at the appropriate sample depth.

Corrosion: Corrosion test suites were performed on three samples from depths of 1 to 5 feet. Corrosion tests included: 100% saturated resistivity (ASTM G57), chloride (Caltrans 422), soluble sulfate (Caltrans 417), pH (ASTM G51), Redox (SM 2580B), and sulfide.

Plasticity Index (ASTM D4318) Testing Summary



Symbol	Boring No.	Depth (ft)	Natural Water Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index	Passing No. 200 (%)	Group Name (USCS - ASTM D2487)
⊕	EB-3	2.0	19	28	15	13	—	Sandy Lean Clay (CL)

Sample prepared in accordance with ASTM D421

CORNERSTONE EARTH GROUP

Plasticity Index Testing Summary

Oka Road Residential
Los Gatos, CA

Project Number: 1109-5-2

Figure Number: Figure B1

Date: August 2024

Drawn By: FLL

Corrosivity Tests Summary

CORNERSTONE EARTH GROUP

Job Number	1109-5-2	Date Tested	9/3,4/2024
Job Name	Oka Road Residential	Tested By	BBA, FL
Location	Los Gatos, CA		

Sample I.D.			Soil Visual Description	Moisture Content	pH	Temp. at Testing	Resistivity (Ohm-cm) Corrected to 15.5 C°		Chloride Dry Wt.	Sulfate Dry Wt.
Boring	Sample No.	Depth, ft.		%		C°	As Received	Saturated	mg/kg	mg/kg
				ASTM D2216	ASTM G51		G57	ASTM G57	ASTM D4327	ASTM D4327
EB-2	1A	1.0	Dark Brown Silty, Clayey Sand (SC-SM)	13.8	7.1	24.9	-	2,976	3	20
EB-3	1A	1.0	Dark Brown Sandy Lean Clay (CL)	17.2	7.4	25.2	-	3,467	4	25
EB-3	3A	5.0	Brown Sandy Lean Clay (CL)	18.2	7.3	25.6	-	3,620	6	27

APPENDIX C: LIQUEFACTION ANALYSES CALCULATIONS

CORNERSTONE EARTH GROUP

CPT No.	1

PGA (A_{max})	1.12

Total Settlement:	0.00	(Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	s_{vc} (psf)	Insitu s'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_s for Sand	$CRR_{M=7.5, s'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
0.160	4.760	0.249	16.0	16.0	137.204	5.238	2.35		Unsaturated	39.0			4.50	1.70	7.65	50.87	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.330	11.610	0.284	33.0	33.0	87.746	2.449	2.22		Unsaturated	39.0			10.97	1.70	18.66	64.50	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.490	56.180	0.336	49.0	49.0	348.792	0.598	1.36		Unsaturated	39.0			53.10	1.70	90.27	153.18	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.660	58.670	0.367	66.0	66.0	313.814	0.627	1.41		Unsaturated	39.0			55.45	1.70	94.27	158.14	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.820	60.780	0.415	82.0	82.0	291.630	0.683	1.46		Unsaturated	39.0			57.45	1.70	97.66	162.34	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.980	68.890	0.429	98.0	98.0	302.347	0.623	1.42		Unsaturated	39.0			65.11	1.70	110.69	178.47	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.150	62.470	0.303	115.0	115.0	253.043	0.485	1.40		Unsaturated	39.0			59.05	1.70	100.38	165.70	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.310	37.970	0.161	131.0	131.0	143.988	0.425	1.56		Unsaturated	39.0			35.89	1.70	61.01	116.95	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.480	27.630	0.158	148.0	148.0	98.482	0.575	1.77		Unsaturated	39.0			26.12	1.70	44.40	96.38	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.640	21.110	0.154	164.0	164.0	71.392	0.730	1.95		Unsaturated	39.0			19.95	1.70	33.92	83.40	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.800	25.310	0.184	180.0	180.0	81.730	0.730	1.90		Unsaturated	39.0			23.92	1.70	40.67	91.76	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.970	29.500	0.214	197.0	197.0	91.077	0.727	1.86		Unsaturated	39.0			27.88	1.70	47.40	100.10	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.130	27.820	0.204	213.0	213.0	82.561	0.737	1.90		Unsaturated	39.0			26.29	1.70	44.70	96.76	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.300	24.590	0.194	230.0	230.0	70.167	0.792	1.97		Unsaturated	39.0			23.24	1.70	39.51	90.33	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.460	22.420	0.182	246.0	246.0	61.809	0.814	2.02		Unsaturated	39.0			21.19	1.70	36.02	86.01	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.620	21.930	0.206	262.0	262.0	58.554	0.943	2.08		Unsaturated	39.0			20.73	1.70	35.24	85.04	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.790	21.270	0.211	279.0	279.0	55.002	1.000	2.12		Unsaturated	39.0			20.10	1.70	34.18	83.72	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.950	21.410	0.205	295.0	295.0	53.824	0.964	2.12		Unsaturated	39.0			20.24	1.70	34.40	84.00	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.120	22.140	0.191	312.0	312.0	54.113	0.869	2.09		Unsaturated	39.0			20.93	1.70	35.57	85.45	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.280	25.300	0.198	328.0	328.0	60.344	0.786	2.02		Unsaturated	39.0			23.91	1.70	40.65	91.74	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.440	29.160	0.196	344.0	344.0	67.953	0.676	1.95		Unsaturated	39.0			27.56	1.70	46.85	99.42	1.00	0.727	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.610	29.070	0.221	361.0	361.0	66.109	0.763	1.98		Unsaturated	39.0			27.48	1.70	46.71	99.24	1.00	0.727	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.770	29.710	0.223	377.0	377.0	66.106	0.754	1.98		Unsaturated	39.0			28.08	1.70	47.74	100.52	1.00	0.727	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.940	30.240	0.259	394.0	394.0	65.806	0.861	2.02		Unsaturated	39.0			28.58	1.70	48.59	101.57	1.00	0.727	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.100	25.230	0.279	410.0	410.0	53.735	1.114	2.15		Unsaturated	39.0			23.85	1.70	40.54	91.60	1.00	0.726	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.270	26.060	0.385	427.0	427.0	54.383	1.489	2.22		Unsaturated	39.0			24.63	1.70	41.87	93.25	1.00	0.726	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.430	45.650	0.417	443.0	443.0	93.842	0.918	1.91		Unsaturated	39.0			43.15	1.70	73.35	132.23	1.00	0.726	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.590	73.380	0.327	459.0	459.0	148.451	0.447	1.56		Unsaturated	39.0			69.36	1.70	117.83	187.31	1.00	0.726	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.760	106.020	1.697	476.0	476.0	210.805	1.604	1.83		Unsaturated	39.0			100.21	1.54	154.18	232.32	1.00	0.725	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.920	123.040	2.643	492.0	492.0	240.695	2.152	1.90		Unsaturated	39.0			116.29	1.47	171.09	253.26	1.00	0.725	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.090	129.840	1.507	509.0	509.0	249.729	1.163	1.67		Unsaturated	39.0			122.72	1.46	178.72	262.71	1.00	0.725	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.250	167.420	1.844	525.0	525.0	317.189	1.103	1.59		Unsaturated	39.0			158.24	1.44	228.58	324.45	1.00	0.724	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.410	125.090	1.513	541.0	541.0	233.322	1.212	1.71		Unsaturated	39.0			118.23	1.44	169.98	251.89	0.99	0.724	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.580	135.520	0.939	558.0	558.0	248.922	0.694	1.51		Unsaturated	39.0			128.09	1.42	182.07	266.86	0.99	0.724	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.740	129.430	0.912	574.0	574.0	234.362	0.706	1.53		Unsaturated	39.0			122.33	1.41	172.60	255.13	0.99	0.724	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.910	116.780	0.997	591.0	591.0	208.327	0.856	1.63		Unsaturated	39.0			110.38	1.43	158.31	237.44	0.99	0.723	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.070	119.070	0.987	607.0	607.0	209.591	0.831	1.62		Unsaturated	39.0			112.54	1.42	159.78	239.26	0.99	0.723	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.230	118.410	1.008	623.0	623.0	205.718	0.854	1.63		Unsaturated	39.0			111.92	1.41	158.18	237.28	0.99	0.723	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.400	108.230	0.983	640.0	640.0	185.457	0.910	1.68		Unsaturated	39.0			102.30	1.43	146.50	222.81	0.99	0.722	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.560	112.450	1.469	656.0	656.0	190.332	1.310	1.79		Unsaturated	39.0			106.29	1.41	150.12	227.30	0.99	0.722	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.730	120.780	1.789	673.0	673.0	201.859	1.485	1.81		Unsaturated	39.0			114.16	1.38	157.93	236.97	0.99	0.722	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.890	132.100	2.143	689.0	689.0	218.238	1.626	1.82		Unsaturated	39.0			124.86	1.35	168.66	250.26	0.99	0.722	1.100	n.a.	n.a.	n.a.	0.00	0.00
7.050	191.230	0.951	705.0	705.0	312.559	0.498	1.34		Unsaturated	0.0			180.75	1.35	244.44	244.44	0.99	0.721	1.100	n.a.	n.a.	n.a.	0.00	0.00
7.220	168.800	2.547	722.0	722.0	272.550	1.512	1.74		Unsaturated	2.2			159.55	1.38	220.92	220.92	0.99	0.721	1.100	n.a.	n.a.	n.a.	0.00	0.00
7.380	257.450	2.799	738.0	738.0	411.447	1.089	1.52		Unsaturated	0.0			243.34	1.32	321.29	321.29	0.99	0.721	1.100	n.a.	n.a.	n.a.	0.00	0.00
7.550	263.740	3.261	755.0	755.0	416.728	1.238	1.56		Unsaturated	0.0			249.28	1.31	327.17	327.17	0.99	0.720	1.100	n.a.	n.a.	n.a.	0.00	0.00
7.710	261.350	3.276	771.0	771.0	408.626	1.255	1.57		Unsaturated	0.0			247.02	1.31	322.41	322.41	0.99	0.720	1.100	n.a.	n.a.	n.a.	0.00	0.00
7.870	277.130	2.172	787.0	787.0	428.895	0.785	1.39		Unsaturated	0.0			261.94	1.30	340.03	340.03	0.99	0.720	1.100	n.a.	n.a.	n.a.	0.00	0.00
8.040	275.560	1.733	804.0	804.0	421.916	0.630	1.32		Unsaturated	0.0			260.45	1.29	336.21	336.21	0.99	0.719	1.100	n.a.	n.a.	n.a.	0.00	0.00
8.200	324.490	9.136	820.0	820.0	492.059	2.819	1.84		Unsaturated	10.4			306.70	1.28	393.85	412.08	0.99	0.719	1.100	n.a.	n.a.	n.a.	0.00	0.00
8.370	387.320	3.865	837.0	837.0	581.447	0.999	1.41		Unsaturated	0.0			366.09	1.28	467.57	467.57	0.99	0.719	1.100	n.a.	n.a.	n.a.	0.00	0.00
8.530	411.260	5.941	853.0	853.0	611.594	1.446	1.54		Unsaturated	0.0			388.71	1.27	494.00	494.00	0.99	0.718	1.100	n.a.	n.a.	n.a.	0.00	0.00
8.690	478.870	6.588	869.0	869.0	705.644	1.377	1.49		Unsaturated	0.0			452.62	1.26	572.40	572.40	0.99	0.718	1.100	n.a.	n.a.	n.a.	0.00	0.00
8.860	475.620	4.447	886.0	886.0	694.082	0.936	1.35		Unsaturated	0.0			449.55	1.26	565.62	565.62	0.99	0.718	1.100	n.a.	n.a.	n.a.	0.00	0.00
9.020	402.460	6.433	902.0	902.0	581.975	1.600	1.59		Unsaturated	0.0			380.40	1.25	476.36	476.36	0.99	0.718	1.100	n.a.	n.a.	n.a.	0.00	0.00
9.190	331.950	5.943	919.0	919.0	475.429	1.793	1.67		Unsaturated	0.0			313.75	1.25	390.97	390.97	0.99	0.717	1.100	n.a.	n.a.	n.a.	0.00	0.00
9.350	339.180	3.394	935.0	935.0	481.612	1.002	1.45		Unsaturated	0.0			320.59	1.24	397.67	397.67	0.98	0.717	1.100	n.a.	n.a.	n.a.	0.00	0.00
9.510	426.280	3.054	951.0	951.0	600.333	0.717	1.28		Unsaturated	0.0			402.91	1.23	497.56	497.56	0.98	0.717	1.100	n.a.	n.a.	n.a.	0.00	0.00
9.680	287.940	3.087	968.0	968.0	401.704	1.074	1.52		Unsaturated	0.0			272.16	1.23	334.52	334.52	0.98	0.716	1.100	n.a.	n.a.	n.a.	0.00	0.00
9.840	326.680	2.336	984.0	984.0	452.108	0.716	1.35		Unsaturated	0.0			308.77	1.22	377.89	377.89	0.98	0.716	1.100	n.a.	n.a.	n.a.	0.00	0.00
10.010	318.580	2.866	1001.0	1001.0	437.110	0.901	1.44		Unsaturated	0.0			301.12	1.22	366.86	366.86	0.98	0.716	1.100	n.a.	n.a.	n.a.	0.00	0.00
10.170	300.150	2.182	1017.0	1017.0	408.520	0.728	1.38		Unsaturated	0.0			283.70	1.21	344.19	344.19	0.98	0.715	1.100	n.a.	n.a.	n.a.	0.00	0.00
10.330	314.350	3.328	1033.0	1033.0	424.543	1.060	1.50		Unsaturated	0.0			297.12	1.21	358.99	358.99	0.98	0.715	1.100	n.a.	n.a.	n.a.	0.00	0.00
10.500	376.800	5.074	1050.0	1050.0	504.874	1.349	1.55		Unsaturated	0.0			356.14	1.20	428.46	428.46	0.98	0.715	1.100	n.a.	n.a.	n.a.	0.00	0.00
10.660	394.470	4.922	1066.0	1066.0	524.590	1.249	1.52		Unsaturated	0.0			372.84	1.20	446.77	446.77	0.98	0.714	1.100	n.a.	n.a.	n.a.	0.00	0.00
10.830	326.240	7.912	1083.0	1083.0	430.302	2.429	1.81		Unsaturated	7.8			308.36	1.19	367.95	373.41	0.98	0.714	1.100	n.a.	n.a.	n.a.	0.00	0.00
10.990	293.650	2.867	1099.0	1099.0	384.406	0.978	1.50		Unsaturated	0.0			277.55	1.19	329.92	329.92	0.98	0.714	1.100	n.a.	n.a.	n.a.	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No.	1

PGA (A_{max})	1.12

Total Settlement:	0.00	(Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	s_{vc} (psf)	Insitu s'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_s for Sand	$CRR_{M=7.5, s'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
11.150	316.670	7.513	1115.0	1115.0	411.601	2.377	1.81		Unsaturated	7.9			299.31	1.18	354.43	359.91	0.98	0.713	1.100	n.a.	n.a.	n.a.	0.00	0.00
11.320	400.750	4.824	1132.0	1132.0	517.141	1.205	1.51		Unsaturated	0.0			378.78	1.18	446.75	446.75	0.98	0.713	1.100	n.a.	n.a.	n.a.	0.00	0.00
11.480	389.660	5.863	1148.0	1148.0	499.283	1.507	1.60		Unsaturated	0.0			368.30	1.18	432.78	432.78	0.98	0.713	1.100	n.a.	n.a.	n.a.	0.00	0.00
11.650	301.390	7.174	1165.0	1165.0	383.176	2.385	1.83		Unsaturated	9.2			284.87	1.17	333.44	343.73	0.98	0.712	1.100	n.a.	n.a.	n.a.	0.00	0.00
11.810	362.070	2.957	1181.0	1181.0	457.331	0.818	1.39		Unsaturated	0.0			342.22	1.17	399.14	399.14	0.98	0.712	1.100	n.a.	n.a.	n.a.	0.00	0.00
11.980	337.550	3.647	1198.0	1198.0	423.263	1.082	1.51		Unsaturated	0.0			319.05	1.16	370.71	370.71	0.98	0.712	1.100	n.a.	n.a.	n.a.	0.00	0.00
12.140	303.770	2.395	1214.0	1214.0	378.302	0.790	1.43		Unsaturated	0.0			287.12	1.16	332.44	332.44	0.98	0.711	1.100	n.a.	n.a.	n.a.	0.00	0.00
12.300	276.330	3.617	1230.0	1230.0	341.806	1.312	1.63		Unsaturated	0.0			261.18	1.15	301.37	301.37	0.98	0.711	1.100	n.a.	n.a.	n.a.	0.00	0.00
12.470	255.030	3.233	1247.0	1247.0	313.233	1.271	1.64		Unsaturated	0.0			241.05	1.15	277.14	277.14	0.98	0.710	1.100	n.a.	n.a.	n.a.	0.00	0.00
12.630	288.940	2.063	1263.0	1263.0	352.718	0.716	1.42		Unsaturated	0.0			273.10	1.15	312.93	312.93	0.98	0.710	1.100	n.a.	n.a.	n.a.	0.00	0.00
12.800	299.260	2.099	1280.0	1280.0	362.899	0.703	1.40		Unsaturated	0.0			282.85	1.14	322.97	322.97	0.97	0.710	1.100	n.a.	n.a.	n.a.	0.00	0.00
12.960	309.250	3.435	1296.0	1296.0	372.708	1.113	1.55		Unsaturated	0.0			292.30	1.14	332.66	332.66	0.97	0.709	1.100	n.a.	n.a.	n.a.	0.00	0.00
13.120	323.620	3.748	1312.0	1312.0	387.667	1.160	1.56		Unsaturated	0.0			305.88	1.13	346.99	346.99	0.97	0.709	1.100	n.a.	n.a.	n.a.	0.00	0.00
13.290	323.210	3.481	1329.0	1329.0	384.681	1.079	1.53		Unsaturated	0.0			305.49	1.13	345.37	345.37	0.97	0.709	1.100	n.a.	n.a.	n.a.	0.00	0.00
13.450	353.760	3.604	1345.0	1345.0	418.594	1.021	1.49		Unsaturated	0.0			334.37	1.13	376.83	376.83	0.97	0.708	1.100	n.a.	n.a.	n.a.	0.00	0.00
13.620	343.540	3.889	1362.0	1362.0	403.924	1.134	1.54		Unsaturated	0.0			324.71	1.12	364.73	364.73	0.97	0.708	1.100	n.a.	n.a.	n.a.	0.00	0.00
13.780	344.550	3.337	1378.0	1378.0	402.745	0.970	1.48		Unsaturated	0.0			325.66	1.12	364.68	364.68	0.97	0.708	1.100	n.a.	n.a.	n.a.	0.00	0.00
13.940	401.280	7.101	1394.0	1394.0	466.480	1.773	1.67		Unsaturated	0.0			379.28	1.12	423.43	423.43	0.97	0.707	1.100	n.a.	n.a.	n.a.	0.00	0.00
14.110	363.590	6.474	1411.0	1411.0	420.027	1.784	1.70		Unsaturated	0.0			343.66	1.11	382.43	382.43	0.97	0.707	1.100	n.a.	n.a.	n.a.	0.00	0.00
14.270	335.090	7.389	1427.0	1427.0	384.854	2.210	1.80		Unsaturated	6.8			316.72	1.11	351.41	353.88	0.97	0.707	1.100	n.a.	n.a.	n.a.	0.00	0.00
14.440	374.630	6.021	1444.0	1444.0	427.812	1.610	1.66		Unsaturated	0.0			354.09	1.11	391.65	391.65	0.97	0.706	1.100	n.a.	n.a.	n.a.	0.00	0.00
14.600	359.410	5.048	1460.0	1460.0	408.134	1.407	1.62		Unsaturated	0.0			339.71	1.10	374.65	374.65	0.97	0.706	1.100	n.a.	n.a.	n.a.	0.00	0.00
14.760	327.350	3.739	1476.0	1476.0	369.625	1.145	1.56		Unsaturated	0.0			309.40	1.10	340.25	340.25	0.97	0.705	1.100	n.a.	n.a.	n.a.	0.00	0.00
14.930	255.350	2.971	1493.0	1493.0	286.488	1.167	1.64		Unsaturated	0.0			241.35	1.10	264.61	264.61	0.97	0.705	1.100	n.a.	n.a.	n.a.	0.00	0.00
15.090	244.380	3.299	1509.0	1509.0	272.678	1.354	1.70		Sand	0.0			230.98	1.09	252.66	252.66	0.97	0.707	1.100	179.462	434.298	614.04	0.00	0.00
15.260	304.990	3.102	1526.0	1526.0	338.604	1.020	1.55		Sand	0.0			288.27	1.09	314.23	314.23	0.97	0.712	1.098	########	########	########	0.00	0.00
15.420	390.930	3.420	1542.0	1542.0	431.988	0.877	1.43		Sand	0.0			369.50	1.09	401.67	401.67	0.97	0.716	1.095	########	########	########	0.00	0.00
15.580	424.310	3.905	1558.0	1558.0	466.524	0.922	1.43		Sand	0.0			401.05	1.08	434.78	434.78	0.97	0.720	1.092	########	########	########	0.00	0.00
15.750	437.080	5.991	1575.0	1575.0	477.980	1.373	1.57		Sand	0.0			413.12	1.08	446.59	446.59	0.97	0.724	1.089	########	########	########	0.00	0.00
15.910	396.120	4.669	1591.0	1591.0	430.914	1.181	1.54		Sand	0.0			374.40	1.08	403.66	403.66	0.97	0.728	1.086	########	########	########	0.00	0.00
16.080	327.670	4.104	1608.0	1608.0	354.404	1.256	1.61		Sand	0.0			309.71	1.08	332.97	332.97	0.96	0.733	1.082	########	########	########	0.00	0.00
16.240	249.940	3.629	1624.0	1624.0	268.783	1.457	1.73		Sand	1.5			236.24	1.07	253.37	253.37	0.96	0.736	1.079	195.840	465.053	631.51	0.00	0.00
16.400	214.340	4.319	1640.0	1640.0	229.239	2.023	1.89		Sand	13.9			202.59	1.07	217.21	245.42	0.96	0.740	1.076	76.929	182.182	246.12	0.00	0.00
16.570	243.110	4.836	1657.0	1657.0	258.780	1.996	1.85		Sand	11.1			229.78	1.07	245.09	261.81	0.96	0.744	1.073	591.655	1397.123	1877.37	0.00	0.00
16.730	243.500	3.959	1673.0	1673.0	257.946	1.631	1.78		Sand	5.5			230.15	1.07	245.39	245.89	0.96	0.748	1.070	81.129	191.061	255.47	0.00	0.00
16.900	264.940	2.763	1690.0	1690.0	279.312	1.046	1.61		Sand	0.0			250.42	1.06	265.72	265.72	0.96	0.752	1.067	1028.809	2416.021	3213.98	0.00	0.00
17.060	274.230	2.317	1706.0	1706.0	287.769	0.847	1.53		Sand	0.0			259.20	1.06	274.35	274.35	0.96	0.755	1.065	3865.279	9053.056	11986.22	0.00	0.00
17.220	309.930	2.255	1722.0	1722.0	323.825	0.730	1.45		Sand	0.0			292.94	1.06	309.30	309.30	0.96	0.759	1.062	########	########	########	0.00	0.00
17.390	306.160	3.280	1739.0	1739.0	318.299	1.074	1.58		Sand	0.0			289.38	1.05	304.75	304.75	0.96	0.762	1.059	########	########	4311948.38	0.00	0.00
17.550	293.440	2.263	1755.0	1755.0	303.635	0.773	1.48		Sand	0.0			277.35	1.05	291.38	291.38	0.96	0.766	1.056	81728.213	########	247940.94	0.00	0.00
17.720	352.530	6.669	1772.0	1772.0	363.198	1.896	1.75		Sand	3.2			333.20	1.05	349.17	349.17	0.96	0.769	1.053	########	########	########	0.00	0.00
17.880	406.880	6.401	1788.0	1788.0	417.445	1.577	1.65		Sand	0.0			384.57	1.05	402.05	402.05	0.96	0.773	1.051	########	########	########	0.00	0.00
18.040	486.370	5.266	1805.0	1802.5	497.158	1.085	1.47		Sand	0.0			459.71	1.04	479.57	479.57	0.96	0.776	1.048	########	########	########	0.00	0.00
18.210	469.770	4.551	1826.3	1813.1	478.736	0.971	1.44		Sand	0.0			444.02	1.04	462.49	462.49	0.96	0.779	1.046	########	########	########	0.00	0.00
18.370	491.070	4.932	1846.3	1823.2	499.098	1.006	1.45		Sand	0.0			464.15	1.04	482.75	482.75	0.96	0.783	1.045	########	########	########	0.00	0.00
18.540	573.670	4.751	1867.5	1833.8	581.501	0.829	1.34		Sand	0.0			542.22	1.04	563.09	563.09	0.96	0.786	1.043	########	########	########	0.00	0.00
18.700	617.880	4.873	1887.5	1843.8	624.674	0.790	1.31		Sand	0.0			584.01	1.04	605.61	605.61	0.96	0.789	1.041	########	########	########	0.00	0.00
18.860	558.450	4.787	1907.5	1853.8	562.961	0.859	1.36		Sand	0.0			527.84	1.04	546.58	546.58	0.96	0.792	1.040	########	########	########	0.00	0.00
19.030	531.790	5.287	1928.8	1864.5	534.497	0.996	1.43		Sand	0.0			502.64	1.03	519.70	519.70	0.96	0.795	1.038	########	########	########	0.00	0.00
19.190	547.690	5.703	1948.8	1874.5	549.024	1.043	1.44		Sand	0.0			517.67	1.03	534.48	534.48	0.95	0.798	1.036	########	########	########	0.00	0.00
19.360	583.120	5.461	1970.0	1885.1	582.941	0.938	1.38		Sand	0.0			551.15	1.03	568.21	568.21	0.95	0.801	1.035	########	########	########	0.00	0.00
19.520	633.110	10.125	1990.0	1895.2	631.315	1.602	1.57		Sand	0.0			598.40	1.03	616.06	616.06	0.95	0.804	1.033	########	########	########	0.00	0.00
19.690	696.910	7.137	2011.3	1905.8	693.081	1.026	1.38		Sand	0.0			658.71	1.03	677.14	677.14	0.95	0.807	1.031	########	########	########	0.00	0.00
19.850	478.850	5.868	2031.3	1915.8	474.650	1.228	1.53		Sand	0.0			452.60	1.03	464.62	464.62	0.95	0.810	1.030	########	########	########	0.00	0.00
20.010	494.610	6.059	2051.3	1925.8	489.018	1.227	1.52		Sand	0.0			467.50	1.03	479.26	479.26	0.95	0.812	1.028	########	########	########	0.00	0.00
20.180	458.000	7.862	2072.5	1936.5	451.491	1.720	1.67		Sand	0.0			432.89	1.02	443.14	443.14	0.95	0.815	1.027	########	########	########	0.00	0.00
20.340	354.410	6.055	2092.5	1946.5	348.232	1.713	1.72		Sand	1.0			334.98	1.02	342.44	342.44	0.95	0.818	1.025	########	########	########	0.00	0.00
20.510	351.820	4.902	2113.8	1957.1	344.728	1.398	1.65		Sand	0.0			332.53	1.02	339.45	339.45	0.95	0.820	1.023	########	########	########	0.00	0.00
20.670	280.910	3.557	2133.8	1967.1	274.327	1.271	1.68		Sand	0.0			265.51	1.02	270.67	270.67	0.95	0.823	1.022	2160.567	4857.265	5902.31	0.00	0.00
20.830	274.900	3.233	2153.8	1977.2	267.745	1.181	1.66		Sand	0.0			259.83	1.02	264.52	264.52	0.95	0.825	1.020	866.330	1944.730	2355.97	0.00	0.00
21.000	283.210	3.398	2175.0	1987.8	275.121	1.204	1.66		Sand	0.0			267.68	1.02	272.13	272.13	0.95	0.828	1.019	2714.796	6084.534	7347.90	0.00	0.00
21.160	320.150	2.781	2195.0	1997.8	310.353	0.872	1.52		Sand	0.0			302.60	1.02	307.22	307.22	0.95	0.830	1.017	########	########	6754842.76	0.00	0.00
21.330	352.770	4.410	2216.3	2008.5	341.166	1.254	1.62		Sand	0.0			333.43	1.01	338.05	338.05	0.95	0.833	1.016	########	########	########	0.00	0.00
21.490	370.110	4.788	2236.3	2018.5	357.090	1.297	1.62		Sand	0.0			349.82	1.01	354.20	354.20	0.95	0.835	1.014	########	########	########	0.00	0.00
21.650	290.260	3.412	2256.3	2028.5	279.114	1.180	1.65		Sand	0.0			274.35	1.01	277.42	277.42	0.95	0.838	1.013	6408.335	14276.973	17042.93	0.00	0.00
21.820	284.760	3.793	2277.5	2039.1	273.079	1.337	1.70		Sand	0.0			269.15	1.01	271.79	271.79	0.95	0.840	1.011	2571.743	5720.643	6809.20	0.00	0.00
21.980	292.350	3.973	2297.5	2049.1	279.691	1.364	1.70		Sand	0.0			276.32	1.01	278.67	278.67	0.94	0.842	1.010	7917.537	17586.341	20876.87	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No.	1

PGA (A_{max})	1.12

Total Settlement:	0.00	(Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_s for Sand	$CRR_{M=7.5, \sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
22.150	393.730	4.457	2318.8	2059.8	376.078	1.135	1.56		Sand	0.0			372.15	1.01	374.80	374.80	0.94	0.845	1.008	########	########	#########	0.00	0.00
22.310	300.320	3.610	2338.8	2069.8	285.889	1.207	1.65		Sand	0.0			283.86	1.01	285.51	285.51	0.94	0.847	1.007	26633.877	58982.529	69643.49	0.00	0.00
22.470	282.780	3.746	2358.8	2079.8	268.468	1.330	1.70		Sand	0.0			267.28	1.00	268.50	268.50	0.94	0.849	1.005	1551.501	3430.962	4040.84	0.00	0.00
22.640	304.260	3.126	2380.0	2090.5	288.200	1.031	1.59		Sand	0.0			287.58	1.00	288.50	288.50	0.94	0.851	1.004	46691.107	########	121099.48	0.00	0.00
22.800	275.460	5.308	2400.0	2100.5	260.181	1.935	1.84		Sand	10.1			260.36	1.00	260.87	273.68	0.94	0.853	1.002	3471.524	7654.219	8969.01	0.00	0.00
22.970	317.520	3.080	2421.3	2111.1	299.314	0.974	1.56		Sand	0.0			300.11	1.00	300.30	300.30	0.94	0.856	1.001	########	########	1340132.17	0.00	0.00
23.130	393.470	1.985	2441.3	2121.1	370.297	0.506	1.29		Sand	0.0			371.90	1.00	371.66	371.66	0.94	0.858	0.999	########	########	#########	0.00	0.00
23.290	373.690	4.988	2461.3	2131.2	350.787	1.339	1.63		Sand	0.0			353.20	1.00	352.54	352.54	0.94	0.860	0.998	########	########	#########	0.00	0.00
23.460	322.710	4.856	2482.5	2141.8	302.010	1.511	1.71		Sand	0.1			305.02	1.00	304.05	304.05	0.94	0.862	0.996	########	########	3055958.94	0.00	0.00
23.620	321.300	4.458	2502.5	2151.8	299.976	1.393	1.69		Sand	0.0			303.69	1.00	302.34	302.34	0.94	0.864	0.995	########	########	2075130.54	0.00	0.00
23.790	281.910	3.713	2523.8	2162.5	262.398	1.323	1.70		Sand	0.0			266.46	0.99	264.93	264.93	0.94	0.866	0.993	918.712	2007.999	2319.65	0.00	0.00
23.950	295.250	2.355	2543.8	2172.5	274.227	0.801	1.53		Sand	0.0			279.06	0.99	277.13	277.13	0.94	0.868	0.992	6104.666	13324.150	15358.86	0.00	0.00
24.110	280.580	3.219	2563.8	2182.5	259.935	1.152	1.66		Sand	0.0			265.20	0.99	263.04	263.04	0.94	0.869	0.991	702.292	1530.702	1760.70	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No. 2

PGA (A_{max}) 1.12

Total Settlement: 0.70 (Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	s_{vc} (psf)	Insitu s'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_s for Sand	$CRR_{M=7.5, s'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
0.160	2.530	0.359	19.2	19.2	64.052	14.252	2.90		Unsaturated	36.0			2.39	1.70	4.07	44.66	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.330	9.820	0.442	39.6	39.6	67.711	4.508	2.49		Unsaturated	36.0			9.28	1.70	15.78	59.05	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.490	54.640	0.545	58.8	58.8	309.642	0.997	1.56		Unsaturated	36.0			51.64	1.70	87.80	147.51	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.660	41.880	0.532	79.2	79.2	204.412	1.272	1.76		Unsaturated	36.0			39.58	1.70	67.29	122.33	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.820	32.220	0.427	98.4	98.4	141.006	1.328	1.88		Unsaturated	36.0			30.45	1.70	51.77	103.26	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.980	26.890	0.340	117.6	117.6	107.574	1.268	1.95		Unsaturated	36.0			25.42	1.70	43.21	92.74	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.150	21.190	0.208	138.0	138.0	78.171	0.983	1.99		Unsaturated	36.0			20.03	1.70	34.05	81.49	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.310	17.820	0.138	157.2	157.2	61.522	0.777	2.01		Unsaturated	36.0			16.84	1.70	28.63	74.84	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.480	15.410	0.124	177.6	177.6	49.985	0.812	2.10		Unsaturated	36.0			14.57	1.70	24.76	70.08	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.640	13.640	0.120	196.8	196.8	41.969	0.885	2.18		Unsaturated	36.0			12.89	1.70	21.92	66.59	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.800	12.840	0.105	216.0	216.0	37.665	0.825	2.21		Unsaturated	36.0			12.14	1.70	20.63	65.01	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.970	12.080	0.105	236.4	236.4	33.826	0.878	2.26		Unsaturated	36.0			11.42	1.70	19.41	63.51	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.130	11.740	0.104	255.6	255.6	31.580	0.895	2.29		Unsaturated	36.0			11.10	1.70	18.86	62.84	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.300	11.570	0.103	276.0	276.0	29.919	0.901	2.31		Unsaturated	48.1			10.94	1.70	18.59	68.83	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.460	11.380	0.107	295.2	295.2	28.424	0.953	2.35		Unsaturated	50.7			10.76	1.70	18.29	69.37	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.620	11.930	0.139	314.4	314.4	28.868	1.182	2.39		Unsaturated	54.1			11.28	1.70	19.17	71.64	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.790	12.100	0.169	334.8	334.8	28.354	1.415	2.44		Unsaturated	58.1			11.44	1.70	19.44	73.13	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.950	13.070	0.224	354.0	354.0	29.794	1.733	2.47		Unsaturated	60.8			12.35	1.70	21.00	75.80	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.120	14.630	0.266	374.4	374.4	32.453	1.841	2.46		Unsaturated	59.6			13.83	1.70	23.51	78.72	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.280	14.910	0.281	393.6	393.6	32.244	1.908	2.47		Unsaturated	60.6			14.09	1.70	23.96	79.53	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.440	15.070	0.298	412.8	412.8	31.807	2.004	2.49		Unsaturated	62.0			14.24	1.70	24.21	80.21	1.00	0.727	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.610	15.550	0.294	433.2	433.2	32.031	1.919	2.47		Unsaturated	60.9			14.70	1.70	24.99	80.93	1.00	0.727	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.770	13.710	0.269	452.4	452.4	27.563	1.992	2.54		Unsaturated	65.8			12.96	1.70	22.03	78.25	1.00	0.727	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.940	13.420	0.249	472.8	472.8	26.361	1.888	2.54		Unsaturated	66.0			12.68	1.70	21.56	77.68	1.00	0.727	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.100	13.960	0.261	492.0	492.0	26.882	1.906	2.53		Unsaturated	65.6			13.19	1.70	22.43	78.72	1.00	0.726	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.270	13.260	0.315	512.4	512.4	33.168	2.422	2.52		Unsaturated	65.0			12.53	1.70	21.31	77.14	1.00	0.726	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.430	13.530	0.354	531.6	531.6	32.972	2.671	2.55		Unsaturated	67.3			12.79	1.70	21.74	78.18	1.00	0.726	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.590	16.090	0.299	550.8	550.8	29.298	1.890	2.50		Unsaturated	63.0			15.21	1.70	25.85	82.56	1.00	0.726	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.760	16.840	0.202	571.2	571.2	30.116	1.223	2.38		Unsaturated	53.6			15.92	1.70	27.06	81.48	1.00	0.725	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.920	15.350	0.135	590.4	590.4	26.939	0.897	2.35		Unsaturated	51.2			14.51	1.70	24.66	77.65	1.00	0.725	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.090	13.760	0.112	610.8	610.8	23.670	0.834	2.39		Unsaturated	53.9			13.01	1.70	22.11	75.30	1.00	0.725	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.250	13.930	0.120	630.0	630.0	23.584	0.878	2.40		Unsaturated	54.9			13.17	1.70	22.38	75.96	1.00	0.724	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.410	13.520	0.119	649.2	649.2	22.517	0.899	2.42		Unsaturated	56.7			12.78	1.70	21.72	75.64	0.99	0.724	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.580	13.030	0.110	669.6	669.6	21.331	0.868	2.43		Unsaturated	57.7			12.32	1.70	20.94	74.93	0.99	0.724	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.740	13.440	0.116	688.8	688.8	21.695	0.882	2.43		Unsaturated	57.5			12.70	1.70	21.60	75.71	0.99	0.724	1.099	n.a.	n.a.	n.a.	0.00	0.00
5.910	14.370	0.129	709.2	709.2	22.882	0.923	2.42		Unsaturated	56.6			13.58	1.70	23.09	77.38	0.99	0.723	1.097	n.a.	n.a.	n.a.	0.00	0.00
6.070	14.250	0.155	728.4	728.4	22.370	1.119	2.47		Unsaturated	60.7			13.47	1.70	22.90	78.20	0.99	0.723	1.096	n.a.	n.a.	n.a.	0.00	0.00
6.230	16.400	0.165	747.6	747.6	25.484	1.032	2.40		Unsaturated	55.3			15.50	1.70	26.35	81.15	0.99	0.723	1.095	n.a.	n.a.	n.a.	0.00	0.00
6.400	19.530	0.197	768.0	768.0	30.038	1.031	2.34		Unsaturated	50.5			18.46	1.70	31.38	85.87	0.99	0.722	1.096	n.a.	n.a.	n.a.	0.00	0.00
6.560	22.960	0.241	787.2	787.2	34.970	1.066	2.30		Unsaturated	46.6			21.70	1.67	36.29	90.47	0.99	0.722	1.098	n.a.	n.a.	n.a.	0.00	0.00
6.730	27.660	0.254	807.6	807.6	41.700	0.930	2.20		Unsaturated	38.9			26.14	1.64	42.77	94.30	0.99	0.722	1.098	n.a.	n.a.	n.a.	0.00	0.00
6.890	35.450	0.253	826.8	826.8	52.978	0.722	2.05		Unsaturated	27.2			33.51	1.61	53.90	96.60	0.99	0.722	1.097	n.a.	n.a.	n.a.	0.00	0.00
7.050	43.350	0.257	846.0	846.0	64.168	0.599	1.94		Unsaturated	18.1			40.97	1.60	65.56	93.61	0.99	0.721	1.093	n.a.	n.a.	n.a.	0.00	0.00
7.220	54.830	0.298	866.4	866.4	80.350	0.547	1.84		Unsaturated	9.8			51.82	1.59	82.65	89.38	0.99	0.721	1.087	n.a.	n.a.	n.a.	0.00	0.00
7.380	68.340	0.230	885.6	885.6	99.199	0.338	1.65		Unsaturated	0.0			64.59	1.54	99.74	99.74	0.99	0.721	1.092	n.a.	n.a.	n.a.	0.00	0.00
7.550	79.190	0.238	906.0	906.0	113.733	0.302	1.58		Unsaturated	0.0			74.85	1.49	111.80	111.80	0.99	0.720	1.099	n.a.	n.a.	n.a.	0.00	0.00
7.710	75.410	0.234	925.2	925.2	107.130	0.313	1.61		Unsaturated	0.0			71.28	1.49	106.40	106.40	0.99	0.720	1.092	n.a.	n.a.	n.a.	0.00	0.00
7.870	63.430	0.187	944.4	944.4	89.073	0.296	1.67		Unsaturated	0.0			59.95	1.52	91.10	91.10	0.99	0.720	1.080	n.a.	n.a.	n.a.	0.00	0.00
8.040	60.020	0.228	964.8	964.8	83.338	0.383	1.75		Unsaturated	2.6			56.73	1.52	86.07	86.07	0.99	0.719	1.075	n.a.	n.a.	n.a.	0.00	0.00
8.200	70.700	0.253	984.0	984.0	97.311	0.360	1.67		Unsaturated	0.0			66.82	1.47	98.16	98.16	0.99	0.719	1.080	n.a.	n.a.	n.a.	0.00	0.00
8.370	78.630	0.242	1004.4	1004.4	107.183	0.309	1.61		Unsaturated	0.0			74.32	1.43	106.58	106.58	0.99	0.719	1.083	n.a.	n.a.	n.a.	0.00	0.00
8.530	78.560	0.242	1023.6	1023.6	106.064	0.309	1.61		Unsaturated	0.0			74.25	1.42	105.67	105.67	0.99	0.718	1.081	n.a.	n.a.	n.a.	0.00	0.00
8.690	72.830	0.266	1042.8	1042.8	97.356	0.368	1.68		Unsaturated	0.0			68.84	1.43	98.21	98.21	0.99	0.718	1.074	n.a.	n.a.	n.a.	0.00	0.00
8.860	63.020	0.290	1063.2	1063.2	83.323	0.465	1.79		Unsaturated	5.8			59.57	1.44	85.80	86.27	0.99	0.718	1.066	n.a.	n.a.	n.a.	0.00	0.00
9.020	56.230	0.342	1082.4	1082.4	73.595	0.613	1.89		Unsaturated	14.5			53.15	1.41	74.86	94.34	0.99	0.718	1.068	n.a.	n.a.	n.a.	0.00	0.00
9.190	56.040	0.428	1102.8	1102.8	72.649	0.772	1.95		Unsaturated	19.3			52.97	1.37	72.82	104.47	0.99	0.717	1.072	n.a.	n.a.	n.a.	0.00	0.00
9.350	56.850	0.382	1122.0	1122.0	73.063	0.678	1.92		Unsaturated	16.6			53.73	1.37	73.81	98.96	0.98	0.717	1.067	n.a.	n.a.	n.a.	0.00	0.00
9.510	54.640	0.383	1141.2	1141.2	69.589	0.708	1.95		Unsaturated	18.8			51.64	1.36	70.20	100.50	0.98	0.717	1.066	n.a.	n.a.	n.a.	0.00	0.00
9.680	57.670	0.432	1161.6	1161.6	72.828	0.757	1.95		Unsaturated	18.8			54.51	1.34	73.13	103.73	0.98	0.716	1.066	n.a.	n.a.	n.a.	0.00	0.00
9.840	66.750	0.399	1180.8	1180.8	83.710	0.602	1.84		Unsaturated	10.4			63.09	1.35	85.11	93.37	0.98	0.716	1.059	n.a.	n.a.	n.a.	0.00	0.00
10.010	71.420	0.601	1201.2	1201.2	88.842	0.848	1.91		Unsaturated	15.5			67.50	1.31	88.24	111.76	0.98	0.716	1.066	n.a.	n.a.	n.a.	0.00	0.00
10.170	71.110	1.143	1220.4	1220.4	87.742	1.621	2.09		Unsaturated	30.3			67.21	1.26	84.88	137.79	0.98	0.715	1.079	n.a.	n.a.	n.a.	0.00	0.00
10.330	60.720	0.894	1239.6	1239.6	74.218	1.488	2.12		Unsaturated	32.7			57.39	1.27	72.83	125.90	0.98	0.715	1.070	n.a.	n.a.	n.a.	0.00	0.00
10.500	57.720	0.982	1260.0	1260.0	69.927	1.720	2.18		Unsaturated	37.5			54.56	1.26	68.76	125.42	0.98	0.715	1.067	n.a.	n.a.	n.a.	0.00	0.00
10.660	60.250	1.287	1279.2	1279.2	72.464	2.159	2.24		Unsaturated	42.0			56.95	1.25	70.90	131.31	0.98	0.714	1.069	n.a.	n.a.	n.a.	0.00	0.00
10.830	99.810	1.337	1299.6	1299.6	119.593	1.348	1.94		Unsaturated	18.1			94.34	1.22	114.94	148.87	0.98	0.714	1.077	n.a.	n.a.	n.a.	0.00	0.00
10.990	152.670	0.942	1318.8	1318.8	181.994	0.619	1.58		Unsaturated	0.0			144.30	1.19	171.82	171.82	0.98	0.714	1.092	n.a.	n.a.	n.a.	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No. 2

PGA (A_{max}) 1.12

Total Settlement: 0.70 (Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_s for Sand	$CRR_{M=7.5, \sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
11.150	166.380	1.158	1338.0	1338.0	196.968	0.699	1.59		Unsaturated	0.0			157.26	1.17	184.67	184.67	0.98	0.713	1.100	n.a.	n.a.	n.a.	0.00	0.00
11.320	187.030	1.697	1358.4	1358.4	219.831	0.911	1.63		Unsaturated	0.0			176.78	1.15	204.09	204.09	0.98	0.713	1.100	n.a.	n.a.	n.a.	0.00	0.00
11.480	190.170	1.672	1377.6	1377.6	221.961	0.882	1.62		Unsaturated	0.0			179.74	1.15	206.31	206.31	0.98	0.713	1.100	n.a.	n.a.	n.a.	0.00	0.00
11.650	219.290	3.096	1398.0	1398.0	254.186	1.416	1.74		Unsaturated	1.9			207.27	1.13	233.49	233.49	0.98	0.712	1.100	n.a.	n.a.	n.a.	0.00	0.00
11.810	223.210	2.208	1417.2	1417.2	256.974	0.992	1.61		Unsaturated	0.0			210.97	1.12	236.41	236.41	0.98	0.712	1.100	n.a.	n.a.	n.a.	0.00	0.00
11.980	246.480	1.782	1437.6	1437.6	281.817	0.725	1.49		Unsaturated	0.0			232.97	1.11	257.98	257.98	0.98	0.712	1.100	n.a.	n.a.	n.a.	0.00	0.00
12.140	225.530	1.767	1456.8	1456.8	256.078	0.786	1.54		Unsaturated	0.0			213.17	1.11	236.95	236.95	0.98	0.711	1.100	n.a.	n.a.	n.a.	0.00	0.00
12.300	259.950	3.964	1476.0	1476.0	293.349	1.529	1.73		Unsaturated	1.0			245.70	1.10	270.19	270.19	0.98	0.711	1.100	n.a.	n.a.	n.a.	0.00	0.00
12.470	255.310	4.016	1496.4	1496.4	286.116	1.578	1.74		Unsaturated	2.4			241.31	1.10	264.41	264.41	0.98	0.710	1.100	n.a.	n.a.	n.a.	0.00	0.00
12.630	280.120	4.003	1515.6	1515.6	311.995	1.433	1.69		Unsaturated	0.0			264.76	1.09	289.13	289.13	0.98	0.710	1.100	n.a.	n.a.	n.a.	0.00	0.00
12.800	235.010	3.031	1536.0	1536.0	259.861	1.294	1.70		Unsaturated	0.0			222.13	1.09	242.71	242.71	0.97	0.710	1.096	n.a.	n.a.	n.a.	0.00	0.00
12.960	223.900	2.358	1555.2	1555.2	245.993	1.057	1.65		Unsaturated	0.0			211.63	1.09	231.39	231.39	0.97	0.709	1.092	n.a.	n.a.	n.a.	0.00	0.00
13.120	192.020	1.427	1574.4	1574.4	209.545	0.746	1.59		Unsaturated	0.0			181.49	1.10	200.06	200.06	0.97	0.709	1.078	n.a.	n.a.	n.a.	0.00	0.00
13.290	164.210	0.952	1594.8	1594.8	177.912	0.583	1.57		Unsaturated	0.0			155.21	1.11	172.25	172.25	0.97	0.709	1.055	n.a.	n.a.	n.a.	0.00	0.00
13.450	147.580	0.901	1614.0	1614.0	158.842	0.614	1.62		Unsaturated	0.0			139.49	1.11	155.23	155.23	0.97	0.708	1.045	n.a.	n.a.	n.a.	0.00	0.00
13.620	135.300	1.108	1634.4	1634.4	144.630	0.824	1.73		Unsaturated	1.7			127.88	1.11	142.39	142.39	0.97	0.708	1.039	n.a.	n.a.	n.a.	0.00	0.00
13.780	142.300	1.361	1653.6	1653.6	151.262	0.962	1.76		Unsaturated	4.1			134.50	1.11	148.64	148.67	0.97	0.708	1.039	n.a.	n.a.	n.a.	0.00	0.00
13.940	158.500	1.312	1672.8	1672.8	167.603	0.832	1.69		Unsaturated	0.0			149.81	1.09	163.85	163.85	0.97	0.707	1.043	n.a.	n.a.	n.a.	0.00	0.00
14.110	164.610	1.591	1693.2	1693.2	173.035	0.972	1.73		Unsaturated	1.0			155.59	1.09	169.08	169.08	0.97	0.707	1.042	n.a.	n.a.	n.a.	0.00	0.00
14.270	161.510	1.852	1712.4	1712.4	168.795	1.153	1.79		Unsaturated	5.8			152.66	1.08	165.37	165.98	0.97	0.707	1.039	n.a.	n.a.	n.a.	0.00	0.00
14.440	177.960	1.068	1732.8	1732.8	184.970	0.603	1.56		Unsaturated	0.0			168.20	1.07	180.61	180.61	0.97	0.706	1.043	n.a.	n.a.	n.a.	0.00	0.00
14.600	167.720	1.020	1752.0	1752.0	173.307	0.612	1.59		Unsaturated	0.0			158.53	1.07	170.05	170.05	0.97	0.706	1.036	n.a.	n.a.	n.a.	0.00	0.00
14.760	159.970	0.974	1771.2	1771.2	164.349	0.612	1.61		Unsaturated	0.0			151.20	1.07	161.90	161.90	0.97	0.705	1.032	n.a.	n.a.	n.a.	0.00	0.00
14.930	153.710	1.000	1791.6	1791.6	156.970	0.654	1.64		Unsaturated	0.0			145.28	1.07	155.15	155.15	0.97	0.705	1.028	n.a.	n.a.	n.a.	0.00	0.00
15.090	133.570	1.346	1810.8	1810.8	135.548	1.015	1.81		Sand	8.2			126.25	1.07	134.83	138.71	0.97	0.707	1.023	0.229	0.362	0.51	0.02	0.05
15.260	126.890	1.056	1831.2	1831.2	127.993	0.838	1.78		Sand	5.3			119.93	1.07	127.84	128.11	0.97	0.711	1.019	0.192	0.284	0.40	0.02	0.05
15.420	108.450	1.400	1850.4	1850.4	108.680	1.302	1.96		Sand	19.7			102.50	1.06	108.31	145.68	0.97	0.714	1.021	0.262	0.434	0.61	0.02	0.04
15.580	93.530	1.131	1869.6	1869.6	93.108	1.222	1.99		Sand	22.2			88.40	1.05	93.24	134.33	0.97	0.717	1.017	0.212	0.324	0.45	0.02	0.05
15.750	86.110	1.206	1890.0	1890.0	85.173	1.416	2.06		Sand	27.9			81.39	1.05	85.43	135.19	0.97	0.721	1.016	0.215	0.330	0.46	0.02	0.04
15.910	91.600	1.116	1909.2	1909.2	90.197	1.231	2.00		Sand	23.2			86.58	1.05	90.51	133.21	0.97	0.724	1.014	0.208	0.315	0.44	0.02	0.05
16.080	104.940	1.551	1929.6	1929.6	102.913	1.492	2.02		Sand	24.3			99.19	1.04	102.95	149.85	0.96	0.728	1.015	0.288	0.486	0.67	0.02	0.04
16.240	105.500	1.764	1948.8	1948.8	102.946	1.687	2.05		Sand	27.3			99.72	1.03	103.01	155.17	0.96	0.731	1.014	0.327	0.573	0.78	0.01	0.03
16.400	121.080	1.792	1968.0	1968.0	117.703	1.492	1.97		Sand	21.0			114.44	1.03	117.71	159.62	0.96	0.734	1.013	0.367	0.665	0.91	0.01	0.02
16.570	136.770	3.063	1988.4	1988.4	132.386	2.256	2.07		Sand	28.8			129.27	1.02	132.04	192.12	0.96	0.737	1.015	1.246	2.783	3.77	0.00	0.00
16.730	156.500	3.804	2007.6	2007.6	150.888	2.446	2.06		Sand	28.0			147.92	1.02	150.37	212.77	0.96	0.740	1.016	4.201	9.388	12.68	0.00	0.00
16.900	153.010	3.172	2028.0	2028.0	146.747	2.087	2.02		Sand	24.4			144.62	1.01	146.65	201.04	0.96	0.744	1.011	2.005	4.461	6.00	0.00	0.00
17.060	177.890	2.534	2047.2	2047.2	169.956	1.433	1.85		Sand	11.2			168.14	1.01	170.10	184.02	0.96	0.747	1.007	0.858	1.865	2.50	0.00	0.00
17.220	182.140	1.785	2066.4	2066.4	173.221	0.986	1.73		Sand	1.3			172.16	1.01	173.66	173.66	0.96	0.750	1.005	0.571	1.141	1.52	0.00	0.00
17.390	175.800	1.073	2086.8	2086.8	166.328	0.614	1.61		Sand	0.0			166.16	1.01	167.03	167.03	0.96	0.753	1.003	0.457	0.866	1.15	0.01	0.01
17.550	181.320	0.974	2106.0	2106.0	170.789	0.540	1.56		Sand	0.0			171.38	1.00	171.68	171.68	0.96	0.756	1.001	0.533	1.044	1.38	0.00	0.00
17.720	174.690	1.011	2126.4	2126.4	163.707	0.582	1.60		Sand	0.0			165.11	1.00	164.81	164.81	0.96	0.759	0.999	0.427	0.792	1.04	0.01	0.01
17.880	143.730	0.776	2145.6	2145.6	133.903	0.544	1.65		Sand	0.0			135.85	0.99	135.04	135.04	0.96	0.761	0.998	0.214	0.324	0.42	0.02	0.04
18.040	145.740	0.991	2165.0	2162.5	135.249	0.685	1.71		Sand	0.0			137.75	0.99	136.48	136.48	0.96	0.764	0.997	0.220	0.334	0.44	0.02	0.05
18.210	147.830	1.632	2186.3	2173.1	136.857	1.112	1.84		Sand	10.1			139.73	0.99	138.22	147.39	0.96	0.767	0.996	0.272	0.444	0.58	0.02	0.04
18.370	153.050	1.408	2206.3	2183.2	141.391	0.927	1.77		Sand	5.0			144.66	0.99	142.80	142.97	0.96	0.770	0.995	0.248	0.393	0.51	0.02	0.04
18.540	144.960	1.157	2227.5	2193.8	133.528	0.804	1.75		Sand	3.3			137.01	0.98	134.91	134.91	0.96	0.773	0.995	0.214	0.322	0.42	0.02	0.04
18.700	154.820	1.643	2247.5	2203.8	142.347	1.069	1.81		Sand	8.2			146.33	0.98	143.93	147.90	0.96	0.775	0.994	0.275	0.450	0.58	0.02	0.04
18.860	176.910	2.454	2267.5	2213.8	162.428	1.396	1.86		Sand	11.6			167.21	0.98	164.53	179.69	0.96	0.778	0.990	0.717	1.481	1.90	0.00	0.00
19.030	183.970	2.006	2288.8	2224.5	168.537	1.097	1.77		Sand	4.6			173.88	0.98	170.69	170.79	0.96	0.780	0.990	0.517	0.996	1.28	0.00	0.01
19.190	234.470	2.430	2308.8	2234.5	214.598	1.041	1.68		Sand	0.0			221.62	0.98	217.95	217.95	0.95	0.783	0.984	6.101	13.203	16.86	0.00	0.00
19.360	289.220	4.166	2330.0	2245.1	264.318	1.446	1.73		Sand	1.6			273.36	0.98	269.13	269.13	0.95	0.786	0.982	1706.042	3686.591	4692.89	0.00	0.00
19.520	137.040	3.645	2350.0	2255.2	124.392	2.683	2.15		Sand	34.8			129.53	0.98	126.77	194.00	0.95	0.788	0.984	1.369	2.965	3.76	0.00	0.00
19.690	159.020	2.166	2371.3	2265.8	144.166	1.372	1.89		Sand	14.0			150.30	0.97	146.52	169.75	0.95	0.791	0.987	0.499	0.950	1.20	0.01	0.01
19.850	219.560	4.056	2391.3	2275.8	199.015	1.857	1.89		Sand	14.5			207.52	0.98	203.22	233.00	0.95	0.793	0.978	21.605	46.493	58.63	0.00	0.00
20.010	242.220	4.704	2411.3	2285.8	219.176	1.952	1.89		Sand	13.9			228.94	0.98	224.30	252.69	0.95	0.795	0.977	180.035	386.903	486.51	0.00	0.00
20.180	314.230	4.728	2432.5	2296.5	283.992	1.510	1.73		Sand	1.4			297.00	0.98	290.66	290.66	0.95	0.798	0.975	70866.008	########	190640.15	0.00	0.00
20.340	323.340	6.212	2452.5	2306.5	291.613	1.929	1.81		Sand	7.8			305.61	0.98	298.74	303.46	0.95	0.800	0.974	########	########	2820287.57	0.00	0.00
20.510	487.530	6.270	2473.8	2317.1	439.234	1.289	1.57		Sand	0.0			460.80	0.98	449.90	449.90	0.95	0.802	0.973	########	########	#########	0.00	0.00
20.670	448.930	5.253	2493.8	2327.1	403.489	1.173	1.55		Sand	0.0			424.32	0.98	413.80	413.80	0.95	0.805	0.971	########	########	#########	0.00	0.00
20.830	394.890	3.393	2513.8	2337.2	354.013	0.862	1.48		Sand	0.0			373.24	0.97	363.58	363.58	0.95	0.807	0.970	########	########	#########	0.00	0.00
21.000	302.470	2.532	2535.0	2347.8	270.271	0.841	1.55		Sand	0.0			285.89	0.97	278.15	278.15	0.95	0.809	0.969	7250.014	15452.624	19099.37	0.00	0.00
21.160	269.020	1.546	2555.0	2357.8	239.737	0.578	1.47		Sand	0.0			254.27	0.97	246.90	246.90	0.95	0.811	0.968	90.910	193.510	238.55	0.00	0.00
21.330	235.630	1.515	2576.3	2368.5	209.358	0.646	1.54		Sand	0.0			222.71	0.97	215.07	215.07	0.95	0.813	0.966	4.940	10.500	12.91	0.00	0.00
21.490	224.820	1.327	2596.3	2378.5	199.270	0.593	1.54		Sand	0.0			212.50	0.96	204.61	204.61	0.95	0.815	0.968	2.475	5.268	6.46	0.00	0.00
21.650	226.890	1.221	2616.3	2388.5	200.685	0.541	1.51		Sand	0.0			214.45	0.96	206.27	206.27	0.95	0.818	0.966	2.741	5.823	7.12	0.00	0.00
21.820	226.220	1.075	2637.5	2399.1	199.635	0.478	1.48		Sand	0.0			213.82	0.96	205.33	205.33	0.95	0.820	0.965	2.587	5.490	6.70	0.00	0.00
21.980	223.070	1.366	2657.5	2409.1	196.421	0.616	1.55		Sand	0.0			210.84	0.96	202.09	202.09	0.94	0.822	0.965	2.130	4.523	5.50	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No. 2

PGA (A_{max}) 1.12

Total Settlement: 0.70 (Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	s_{vc} (psf)	Insitu s'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_s for Sand	$CRR_{M=7.5, s'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
22.150	229.890	1.170	2678.8	2419.8	202.007	0.512	1.49		Sand	0.0			217.29	0.96	208.19	208.19	0.94	0.824	0.961	3.096	6.546	7.95	0.00	0.00
22.310	228.820	1.406	2698.8	2429.8	200.637	0.618	1.54		Sand	0.0			216.28	0.96	206.90	206.90	0.94	0.826	0.961	2.852	6.027	7.30	0.00	0.00
22.470	204.970	0.950	2718.8	2439.8	179.223	0.466	1.51		Sand	0.0			193.73	0.95	184.29	184.29	0.94	0.828	0.969	0.868	1.818	2.20	0.00	0.00
22.640	190.920	1.024	2740.0	2450.5	166.484	0.540	1.57		Sand	0.0			180.45	0.95	170.90	170.90	0.94	0.830	0.972	0.519	0.981	1.18	0.01	0.01
22.800	188.900	1.079	2760.0	2460.5	164.365	0.575	1.59		Sand	0.0			178.54	0.95	168.76	168.76	0.94	0.831	0.971	0.483	0.899	1.08	0.01	0.01
22.970	198.520	1.454	2781.3	2471.1	172.416	0.737	1.64		Sand	0.0			187.64	0.95	177.42	177.42	0.94	0.833	0.968	0.656	1.301	1.56	0.00	0.00
23.130	217.760	1.744	2801.3	2481.1	188.852	0.806	1.64		Sand	0.0			205.82	0.95	195.10	195.10	0.94	0.835	0.960	1.449	3.062	3.67	0.00	0.00
23.290	231.360	2.803	2821.3	2491.2	200.311	1.219	1.75		Sand	3.2			218.68	0.95	207.56	207.56	0.94	0.837	0.953	2.974	6.236	7.45	0.00	0.00
23.460	257.070	3.538	2842.5	2501.8	222.223	1.384	1.76		Sand	4.2			242.98	0.95	231.47	231.51	0.94	0.839	0.950	18.823	39.331	46.89	0.00	0.00
23.620	249.420	5.358	2862.5	2511.8	215.135	2.160	1.93		Sand	17.1			235.75	0.96	225.32	268.00	0.94	0.841	0.949	1439.868	3004.753	3574.90	0.00	0.00
23.790	185.860	5.842	2883.8	2522.5	159.648	3.168	2.14		Sand	33.9			175.67	0.95	167.33	242.55	0.94	0.842	0.947	56.239	117.204	139.14	0.00	0.00
23.950	174.530	5.135	2903.8	2532.5	149.535	2.967	2.13		Sand	33.5			164.96	0.95	156.50	228.72	0.94	0.844	0.946	14.653	30.500	36.14	0.00	0.00
24.110	131.630	5.804	2923.8	2542.5	112.240	4.459	2.35		Sand	50.8			124.41	0.94	116.95	194.35	0.94	0.846	0.955	1.394	2.928	3.46	0.00	0.00
24.280	152.860	6.533	2945.0	2553.1	130.264	4.315	2.30		Sand	46.8			144.48	0.94	136.35	216.47	0.94	0.847	0.944	5.468	11.353	13.40	0.00	0.00
24.440	141.890	7.169	2965.0	2563.1	120.580	5.106	2.38		Sand	53.1			134.11	0.94	126.13	207.18	0.94	0.849	0.945	2.902	6.034	7.11	0.00	0.00
24.610	150.430	5.924	2986.3	2573.8	127.640	3.977	2.27		Sand	44.9			142.18	0.94	133.70	211.85	0.94	0.851	0.941	3.945	8.170	9.60	0.00	0.00
24.770	168.350	7.992	3006.3	2583.8	142.712	4.790	2.31		Sand	47.9			159.12	0.94	150.29	234.76	0.93	0.852	0.940	25.530	52.800	61.95	0.00	0.00
24.930	230.270	9.174	3026.3	2593.8	195.288	4.010	2.17		Sand	36.7			217.65	0.95	206.26	293.98	0.93	0.854	0.939	########	########	332377.12	0.00	0.00
25.100	227.820	10.238	3047.5	2604.5	192.793	4.524	2.22		Sand	40.5			215.33	0.95	203.85	295.49	0.93	0.855	0.938	########	########	451769.66	0.00	0.00
25.260	341.700	11.482	3067.5	2614.5	289.248	3.375	2.02		Sand	24.5			322.97	0.95	305.44	387.14	0.93	0.857	0.937	########	########	#########	0.00	0.00
25.430	341.390	10.741	3088.8	2625.1	288.389	3.160	1.99		Sand	22.6			322.67	0.94	304.83	379.71	0.93	0.859	0.935	########	########	#########	0.00	0.00
25.590	291.090	10.183	3108.8	2635.1	245.230	3.517	2.07		Sand	28.6			275.13	0.94	259.66	344.55	0.93	0.860	0.934	########	########	#########	0.00	0.00
25.750	195.200	7.994	3128.8	2645.2	163.694	4.129	2.22		Sand	40.9			184.50	0.94	173.95	258.79	0.93	0.861	0.933	392.723	806.138	935.83	0.00	0.00
25.920	159.240	8.349	3150.0	2655.8	133.018	5.296	2.36		Sand	52.2			150.51	0.93	140.67	225.16	0.93	0.863	0.932	10.794	22.128	25.64	0.00	0.00
26.080	166.930	8.417	3170.0	2665.8	139.235	5.090	2.34		Sand	50.1			157.78	0.94	147.62	232.79	0.93	0.864	0.931	21.187	43.382	50.19	0.00	0.00
26.250	197.970	7.827	3191.3	2676.5	165.036	3.985	2.21		Sand	39.8			187.12	0.94	175.87	260.00	0.93	0.866	0.930	461.892	944.533	1090.96	0.00	0.00
26.410	198.560	8.548	3211.3	2686.5	165.214	4.340	2.24		Sand	42.2			187.67	0.94	176.22	262.81	0.93	0.867	0.928	679.870	1388.606	1601.35	0.00	0.00
26.570	228.090	8.908	3231.3	2696.5	189.624	3.933	2.17		Sand	36.7			215.59	0.94	202.23	289.00	0.93	0.868	0.927	51388.464	########	120707.38	0.00	0.00
26.740	230.930	9.954	3252.5	2707.1	191.615	4.341	2.20		Sand	39.4			218.27	0.94	204.53	295.11	0.93	0.870	0.926	########	########	406314.48	0.00	0.00
26.900	215.980	10.797	3272.5	2717.1	178.783	5.037	2.28		Sand	45.0			204.14	0.94	191.11	283.94	0.93	0.871	0.925	19968.576	40635.363	46643.44	0.00	0.00
27.070	205.830	11.588	3293.8	2727.8	169.976	5.675	2.33		Sand	49.5			194.55	0.94	181.94	275.77	0.93	0.873	0.924	4873.985	9905.816	11352.66	0.00	0.00
27.230	230.930	10.645	3313.8	2737.8	190.513	4.643	2.23		Sand	41.5			218.27	0.93	203.93	296.62	0.93	0.874	0.923	########	########	551322.05	0.00	0.00
27.400	232.980	9.574	3335.0	2748.4	191.835	4.139	2.19		Sand	38.0			220.21	0.93	205.53	294.67	0.92	0.875	0.922	########	########	366685.36	0.00	0.00
27.560	283.440	9.832	3355.0	2758.5	233.250	3.489	2.08		Sand	29.3			267.90	0.93	249.80	334.29	0.92	0.876	0.920	########	########	#########	0.00	0.00
27.720	297.670	11.225	3375.0	2768.5	244.578	3.792	2.10		Sand	30.9			281.35	0.93	262.09	352.49	0.92	0.878	0.919	########	########	#########	0.00	0.00
27.890	309.540	11.353	3396.3	2779.1	253.891	3.688	2.08		Sand	29.4			292.57	0.93	272.27	361.48	0.92	0.879	0.918	########	########	#########	0.00	0.00
28.050	338.510	9.905	3416.3	2789.1	277.276	2.941	1.98		Sand	21.1			319.95	0.93	297.47	365.70	0.92	0.880	0.917	########	########	#########	0.00	0.00
28.220	288.460	8.847	3437.5	2799.8	235.614	3.085	2.03		Sand	25.5			272.65	0.93	253.23	329.00	0.92	0.881	0.916	########	########	#########	0.00	0.00
28.380	282.980	7.956	3457.5	2809.8	230.691	2.829	2.00		Sand	23.4			267.47	0.93	248.19	316.87	0.92	0.882	0.915	########	########	#########	0.00	0.00
28.540	268.670	8.776	3477.5	2819.8	218.556	3.288	2.07		Sand	28.8			253.94	0.93	235.41	315.89	0.92	0.884	0.914	########	########	#########	0.00	0.00
28.710	272.300	6.602	3498.8	2830.4	221.102	2.440	1.96		Sand	20.0			257.37	0.93	238.36	293.98	0.92	0.885	0.913	########	########	312070.19	0.00	0.00
28.870	263.950	8.136	3518.8	2840.5	213.892	3.103	2.06		Sand	27.5			249.48	0.93	230.83	307.58	0.92	0.886	0.912	########	########	6171499.80	0.00	0.00
29.040	257.480	8.593	3540.0	2851.1	208.216	3.360	2.09		Sand	30.3			243.36	0.92	224.95	306.55	0.92	0.887	0.911	########	########	4832043.78	0.00	0.00
29.200	380.400	8.556	3560.0	2861.1	307.757	2.260	1.86		Sand	11.4			359.55	0.92	332.04	353.82	0.92	0.888	0.909	########	########	#########	0.00	0.00
29.360	295.340	9.669	3580.0	2871.1	238.192	3.294	2.05		Sand	27.2			279.15	0.92	257.55	338.64	0.92	0.889	0.908	########	########	#########	0.00	0.00
29.530	331.750	8.805	3601.3	2881.8	267.232	2.669	1.95		Sand	18.9			313.56	0.92	289.02	346.93	0.92	0.890	0.907	########	########	#########	0.00	0.00
29.690	298.560	7.325	3621.3	2891.8	239.927	2.468	1.95		Sand	18.7			282.19	0.92	259.87	313.23	0.92	0.891	0.906	########	########	#########	0.00	0.00
29.860	208.600	9.107	3642.5	2902.4	166.877	4.404	2.24		Sand	42.4			197.16	0.92	181.39	269.48	0.91	0.892	0.905	1799.516	3583.601	4016.71	0.00	0.00
30.020	311.680	9.363	3662.5	2912.5	249.628	3.022	2.01		Sand	23.8			294.59	0.92	270.78	344.55	0.91	0.893	0.904	########	########	#########	0.00	0.00
30.180	311.430	12.481	3682.5	2922.5	248.990	4.032	2.12		Sand	32.4			294.36	0.92	270.32	365.45	0.91	0.894	0.903	########	########	#########	0.00	0.00
30.350	332.810	12.601	3703.8	2933.1	265.694	3.808	2.08		Sand	29.6			314.57	0.92	288.60	381.44	0.91	0.895	0.902	########	########	#########	0.00	0.00
30.510	332.020	9.192	3723.8	2943.1	264.600	2.784	1.97		Sand	20.3			313.82	0.92	287.66	351.43	0.91	0.896	0.901	########	########	#########	0.00	0.00
30.680	319.970	5.990	3745.0	2953.8	254.474	1.883	1.84		Sand	9.8			302.43	0.92	276.95	288.77	0.91	0.897	0.900	49116.865	97244.234	108406.99	0.00	0.00
30.840	274.420	6.074	3765.0	2963.8	217.658	2.229	1.93		Sand	17.7			259.38	0.91	237.31	283.95	0.91	0.898	0.899	20016.841	39585.707	44085.38	0.00	0.00
31.000	461.510	6.970	3785.0	2973.8	366.448	1.516	1.67		Sand	0.0			436.21	0.91	398.75	398.75	0.91	0.899	0.898	########	########	#########	0.00	0.00
31.170	320.450	6.622	3806.3	2984.4	253.521	2.079	1.87		Sand	12.7			302.88	0.91	276.61	302.58	0.91	0.900	0.897	########	########	1894006.73	0.00	0.00
31.330	211.140	6.260	3826.3	2994.5	166.238	2.992	2.11		Sand	31.5			199.57	0.91	182.10	256.87	0.91	0.901	0.896	305.344	601.780	668.19	0.00	0.00
31.500	168.240	5.904	3847.5	3005.1	131.910	3.550	2.23		Sand	41.1			159.02	0.90	142.96	220.37	0.91	0.902	0.895	7.338	14.445	16.02	0.00	0.00
31.660	158.230	7.467	3867.5	3015.1	123.757	4.778	2.35		Sand	50.7			149.56	0.90	134.06	215.97	0.91	0.902	0.894	5.272	10.365	11.49	0.00	0.00
31.820	148.350	7.615	3887.5	3025.1	115.734	5.201	2.39		Sand	54.4			140.22	0.89	125.02	206.42	0.91	0.903	0.899	2.766	5.469	6.06	0.00	0.00
31.990	216.000	6.547	3908.8	3035.8	168.906	3.059	2.11		Sand	31.8			204.16	0.91	185.61	261.60	0.91	0.904	0.892	574.921	1127.870	1247.62	0.00	0.00
32.150	192.060	7.431	3928.8	3045.8	149.759	3.909	2.23		Sand	41.2			181.53	0.91	164.44	247.16	0.91	0.905	0.891	93.593	183.405	202.70	0.00	0.00
32.320	209.340	7.406	3950.0	3056.4	163.080	3.571	2.17		Sand	36.9			197.86	0.91	179.57	261.34	0.90	0.906	0.890	554.166	1084.672	1197.69	0.00	0.00
32.480	200.670	8.010	3970.0	3066.4	155.998	4.032	2.23		Sand	41.2			189.67	0.91	171.98	256.61	0.90	0.906	0.889	295.113	576.988	636.57	0.00	0.00
32.640	174.810	7.630	3990.0	3076.5	135.465	4.415	2.30		Sand	46.6			165.23	0.90	148.23	231.30	0.90	0.907	0.888	18.470	36.071	39.76	0.00	0.00
32.810	182.820	8.166	4011.3	3087.1	141.491	4.516	2.29		Sand	46.4			172.80	0.90	155.49	240.27	0.90	0.908	0.887	44.223	86.267	95.01	0.00	0.00
32.970	165.570	7.628	4031.3	3097.1	127.778	4.664	2.33		Sand	49.4			156.49	0.89	139.53	222.11	0.90	0.909	0.886	8.415	16.398	18.05	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No.	2

PGA (A_{max})	1.12

Total Settlement:	0.70	(Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	s_{vc} (psf)	Insitu s'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_s for Sand	$CRR_{M=7.5, s'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
33.140	157.540	7.541	4052.5	3107.8	121.288	4.849	2.36		Sand	51.5			148.90	0.89	132.11	213.95	0.90	0.909	0.885	4.562	8.879	9.76	0.00	0.00
33.300	162.620	6.874	4072.5	3117.8	125.041	4.281	2.31		Sand	47.4			153.71	0.89	136.43	216.97	0.90	0.910	0.884	5.673	11.030	12.12	0.00	0.00
33.460	228.130	6.539	4092.5	3127.8	175.761	2.892	2.08		Sand	29.4			215.62	0.90	194.50	268.15	0.90	0.911	0.883	1472.093	2858.910	3138.82	0.00	0.00
33.630	242.250	8.540	4113.8	3138.4	186.413	3.556	2.14		Sand	34.1			228.97	0.90	206.35	290.44	0.90	0.912	0.882	67849.332	########	144388.40	0.00	0.00
33.790	366.140	8.198	4133.8	3148.5	282.106	2.252	1.87		Sand	12.9			346.07	0.90	311.62	340.95	0.90	0.912	0.881	########	########	#########	0.00	0.00
33.960	362.780	9.827	4155.0	3159.1	279.023	2.724	1.95		Sand	18.7			342.89	0.90	308.49	367.98	0.90	0.913	0.880	########	########	#########	0.00	0.00
34.120	299.660	11.196	4175.0	3169.1	229.824	3.762	2.11		Sand	31.8			283.23	0.90	254.60	345.20	0.90	0.914	0.879	########	########	#########	0.00	0.00
34.280	282.590	9.536	4195.0	3179.1	216.291	3.400	2.09		Sand	30.0			267.10	0.90	239.90	323.77	0.90	0.914	0.878	########	########	#########	0.00	0.00
34.450	273.870	11.269	4216.3	3189.8	209.209	4.147	2.17		Sand	36.4			258.86	0.90	232.29	325.58	0.90	0.915	0.877	########	########	#########	0.00	0.00
34.610	398.440	10.610	4236.3	3199.8	304.621	2.677	1.92		Sand	16.6			376.60	0.90	337.67	389.84	0.90	0.915	0.876	########	########	#########	0.00	0.00
34.780	301.940	12.756	4257.5	3210.4	230.059	4.255	2.16		Sand	35.4			285.39	0.90	255.66	352.84	0.89	0.916	0.875	########	########	#########	0.00	0.00
34.940	345.630	12.940	4277.5	3220.4	263.166	3.767	2.08		Sand	29.4			326.68	0.90	292.42	385.66	0.89	0.917	0.874	########	########	#########	0.00	0.00
35.100	320.560	12.996	4297.5	3230.5	243.573	4.081	2.13		Sand	33.2			302.99	0.89	270.99	367.69	0.89	0.917	0.873	########	########	#########	0.00	0.00
35.270	322.090	12.531	4318.8	3241.1	244.333	3.917	2.11		Sand	31.9			304.43	0.89	272.04	366.51	0.89	0.918	0.872	########	########	#########	0.00	0.00
35.430	245.880	10.852	4338.8	3251.1	185.836	4.453	2.22		Sand	40.7			232.40	0.89	207.51	300.27	0.89	0.918	0.871	########	########	1080686.11	0.00	0.00
35.600	217.740	11.207	4360.0	3261.8	164.102	5.199	2.31		Sand	47.6			205.80	0.89	183.60	276.51	0.89	0.919	0.870	5503.522	10535.899	11465.21	0.00	0.00
35.760	248.230	11.907	4380.0	3271.8	187.019	4.839	2.25		Sand	43.0			234.62	0.89	209.14	304.69	0.89	0.919	0.869	########	########	2892989.46	0.00	0.00
35.930	296.050	10.103	4401.3	3282.4	222.997	3.438	2.08		Sand	29.7			279.82	0.89	249.21	334.44	0.89	0.920	0.868	########	########	#########	0.00	0.00
36.090	235.930	10.228	4421.3	3292.4	177.096	4.376	2.23		Sand	41.1			223.00	0.89	198.45	289.43	0.89	0.921	0.867	55798.573	########	115667.55	0.00	0.00
36.250	218.020	11.583	4441.3	3302.5	163.269	5.367	2.32		Sand	48.6			206.07	0.89	183.23	276.79	0.89	0.921	0.866	5770.913	11000.568	11943.78	0.00	0.00
36.420	367.390	9.683	4462.5	3313.1	275.827	2.652	1.94		Sand	18.1			347.25	0.89	308.51	365.23	0.89	0.922	0.865	########	########	#########	0.00	0.00
36.580	301.920	9.538	4482.5	3323.1	226.025	3.183	2.05		Sand	27.2			285.37	0.89	253.33	333.56	0.89	0.922	0.865	########	########	#########	0.00	0.00
36.750	359.750	7.682	4503.8	3333.8	269.203	2.149	1.87		Sand	12.5			340.03	0.89	301.60	327.78	0.89	0.923	0.864	########	########	#########	0.00	0.00
36.910	337.540	7.543	4523.8	3343.8	252.092	2.250	1.90		Sand	15.1			319.04	0.89	282.76	321.53	0.89	0.923	0.863	########	########	#########	0.00	0.00
37.070	277.680	8.968	4543.8	3353.8	206.767	3.256	2.08		Sand	29.6			262.46	0.89	232.43	313.97	0.89	0.923	0.862	########	########	#########	0.00	0.00
37.240	232.550	7.383	4565.0	3364.4	172.603	3.206	2.12		Sand	32.7			219.80	0.88	194.49	273.79	0.88	0.924	0.861	3533.832	6692.862	7244.25	0.00	0.00
37.400	219.710	9.160	4585.0	3374.4	162.729	4.213	2.23		Sand	41.6			207.67	0.88	183.61	271.49	0.88	0.924	0.860	2454.490	4643.839	5024.10	0.00	0.00
37.570	239.870	10.925	4606.3	3385.1	177.531	4.599	2.24		Sand	42.5			226.72	0.88	200.29	293.13	0.88	0.925	0.859	########	########	236489.71	0.00	0.00
37.730	304.600	10.240	4626.3	3395.1	225.562	3.388	2.08		Sand	29.1			287.90	0.88	254.14	338.94	0.88	0.925	0.858	########	########	#########	0.00	0.00
37.890	267.200	12.786	4646.3	3405.1	197.356	4.827	2.24		Sand	42.0			252.55	0.88	222.76	320.61	0.88	0.926	0.857	########	########	#########	0.00	0.00
38.060	256.220	12.908	4667.5	3415.8	188.872	5.084	2.27		Sand	44.3			242.17	0.88	213.43	311.27	0.88	0.926	0.856	########	########	#########	0.00	0.00
38.220	249.990	10.748	4687.5	3425.8	183.961	4.340	2.21		Sand	40.1			236.29	0.88	208.08	300.37	0.88	0.926	0.855	########	########	1076290.83	0.00	0.00
38.390	142.350	7.912	4708.8	3436.4	103.833	5.652	2.45		Sand	59.0			134.55	0.85	114.28	194.66	0.88	0.927	0.880	1.417	2.743	2.96	0.00	0.00
38.550	124.910	7.133	4728.8	3446.4	90.758	5.821	2.50		Sand	62.6			118.06	0.84	98.92	176.25	0.88	0.927	0.901	0.628	1.147	1.24	0.00	0.01
38.710	147.710	7.732	4748.8	3456.4	107.480	5.320	2.42		Sand	56.6			139.61	0.85	118.72	199.36	0.88	0.927	0.872	1.823	3.497	3.77	0.00	0.00
38.880	172.750	9.088	4770.0	3467.1	125.797	5.334	2.38		Sand	53.5			163.28	0.86	141.08	226.36	0.88	0.928	0.852	11.949	22.394	24.14	0.00	0.00
39.040	222.960	8.401	4790.0	3477.1	162.630	3.809	2.20		Sand	38.8			210.74	0.88	184.86	270.06	0.88	0.928	0.851	1965.695	3680.166	3965.00	0.00	0.00
39.210	131.470	7.550	4811.3	3487.7	95.018	5.850	2.49		Sand	61.8			124.26	0.84	104.15	182.69	0.88	0.929	0.891	0.811	1.543	1.66	0.00	0.00
39.370	137.320	8.464	4831.3	3497.8	99.175	6.274	2.50		Sand	62.9			129.79	0.84	109.20	189.53	0.88	0.929	0.883	1.099	2.135	2.30	0.00	0.00
39.530	182.290	6.582	4851.3	3507.8	132.039	3.660	2.24		Sand	41.9			172.30	0.86	148.50	227.98	0.87	0.929	0.848	13.733	25.630	27.59	0.00	0.00
39.700	144.670	6.755	4872.5	3518.4	104.256	4.749	2.39		Sand	54.1			136.74	0.84	115.15	193.69	0.87	0.929	0.876	1.348	2.597	2.79	0.00	0.00
39.860	226.490	7.667	4892.5	3528.4	163.989	3.422	2.16		Sand	35.6			214.07	0.87	187.06	268.87	0.87	0.930	0.847	1641.869	3058.021	3289.10	0.00	0.00
40.030	274.110	11.314	4913.8	3539.1	198.537	4.165	2.18		Sand	37.5			259.08	0.87	226.21	319.60	0.87	0.930	0.846	########	########	#########	0.00	0.00
40.190	348.290	11.576	4933.8	3549.1	252.387	3.347	2.05		Sand	26.6			329.20	0.87	287.21	372.27	0.87	0.930	0.845	########	########	#########	0.00	0.00
40.350	289.860	7.427	4953.8	3559.1	209.441	2.584	2.00		Sand	22.7			273.97	0.87	238.85	303.84	0.87	0.931	0.844	########	########	2289204.26	0.00	0.00
40.520	246.260	9.093	4975.0	3569.8	177.394	3.730	2.17		Sand	36.5			232.76	0.87	202.76	289.34	0.87	0.931	0.843	54850.671	########	109295.71	0.00	0.00
40.680	223.800	9.060	4995.0	3579.8	160.817	4.094	2.23		Sand	41.1			211.53	0.87	184.13	271.57	0.87	0.931	0.842	2483.632	4602.148	4942.63	0.00	0.00
40.850	106.460	9.724	5016.3	3590.4	57.905	9.355	2.78		Clay	85.2			100.62	0.87	n.a.	n.a.	0.87	0.931	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.010	214.370	9.074	5036.3	3600.4	153.507	4.283	2.25		Sand	43.3			202.62	0.87	176.11	263.63	0.87	0.932	0.841	762.574	1410.147	1513.67	0.00	0.00
41.170	161.860	7.768	5056.3	3610.4	115.291	4.875	2.37		Sand	52.7			152.99	0.85	129.28	210.98	0.87	0.932	0.840	3.720	6.873	7.38	0.00	0.00
41.340	153.750	7.712	5077.5	3621.1	109.254	5.100	2.40		Sand	55.1			145.32	0.84	121.99	202.86	0.87	0.932	0.854	2.229	4.188	4.49	0.00	0.00
41.500	184.290	7.637	5097.5	3631.1	131.131	4.202	2.29		Sand	45.9			174.19	0.86	148.97	231.72	0.87	0.932	0.838	19.193	35.385	37.96	0.00	0.00
41.670	165.680	7.257	5118.8	3641.7	117.524	4.449	2.33		Sand	49.8			156.60	0.84	132.15	213.02	0.87	0.932	0.837	4.277	7.876	8.45	0.00	0.00
41.830	145.100	7.156	5138.8	3651.8	102.549	5.020	2.41		Sand	56.0			137.15	0.83	113.99	193.06	0.86	0.933	0.867	1.306	2.492	2.67	0.00	0.00
41.990	133.110	6.430	5158.8	3661.8	93.786	4.926	2.43		Sand	57.3			125.81	0.82	103.45	180.17	0.86	0.933	0.884	0.731	1.352	1.45	0.00	0.00
42.160	139.710	10.541	5180.0	3672.4	74.676	7.688	2.64		Clay	74.4			132.05	0.86	n.a.	n.a.	0.86	0.933	n.a.	n.a.	n.a.	n.a.	0.00	0.00
42.320	281.430	11.599	5200.0	3682.4	199.776	4.160	2.18		Sand	37.4			266.00	0.86	229.83	323.86	0.86	0.933	0.834	########	########	#########	0.00	0.00
42.490	313.820	10.575	5221.3	3693.1	222.654	3.398	2.08		Sand	29.4			296.62	0.86	256.08	342.01	0.86	0.933	0.833	########	########	#########	0.00	0.00
42.650	318.010	13.068	5241.3	3703.1	225.339	4.144	2.15		Sand	35.0			300.58	0.86	259.32	356.65	0.86	0.934	0.832	########	########	#########	0.00	0.00
42.810	339.880	13.841	5261.3	3713.1	240.633	4.104	2.13		Sand	33.6			321.25	0.86	276.95	375.67	0.86	0.934	0.831	########	########	#########	0.00	0.00
42.980	327.640	12.400	5282.5	3723.7	231.560	3.815	2.11		Sand	32.1			309.68	0.86	266.78	360.49	0.86	0.934	0.830	########	########	#########	0.00	0.00
43.140	263.190	13.237	5302.5	3733.8	185.383	5.081	2.27		Sand	44.6			248.76	0.86	214.15	312.47	0.86	0.934	0.830	########	########	#########	0.00	0.00
43.310	242.020	14.286	5323.8	3744.4	170.070	5.968	2.35		Sand	50.9			228.75	0.86	196.78	295.54	0.86	0.934	0.829	########	########	369909.02	0.00	0.00
43.470	307.140	12.305	5343.8	3754.4	216.044	4.041	2.15		Sand	35.1			290.30	0.86	249.55	344.72	0.86	0.934	0.828	########	########	#########	0.00	0.00
43.640	257.480	11.353	5365.0	3765.1	180.543	4.456	2.23		Sand	41.3			243.36	0.86	209.04	302.78	0.86	0.934	0.827	########	########	1758959.98	0.00	0.00
43.800	223.690	9.391	5385.0	3775.1	156.385	4.249	2.25		Sand	42.7			211.43	0.86	181.48	269.81	0.86	0.935	0.826	1892.867	3441.099	3682.14	0.00	0.00
43.960	252.930	10.092	5405.0	3785.1	176.835	4.033	2.20		Sand	38.8			239.06	0.86	205.06	295.06	0.86	0.935	0.826	########	########	333026.54	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No.	2

PGA (A_{max})	1.12

Total Settlement:	0.70	(Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	s_{vc} (psf)	Insitu s'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_s for Sand	$CRR_{M=7.5, s'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
44.130	246.270	9.699	5426.3	3795.7	171.880	3.982	2.20		Sand	39.0			232.77	0.86	199.51	288.41	0.86	0.935	0.825	45842.084	83172.583	88978.69	0.00	0.00
44.290	264.250	10.902	5446.3	3805.8	184.318	4.168	2.20		Sand	38.9			249.76	0.86	213.93	306.23	0.85	0.935	0.824	########	########	3850791.36	0.00	0.00
44.460	268.590	12.975	5467.5	3816.4	187.108	4.881	2.25		Sand	43.3			253.87	0.86	217.28	315.10	0.85	0.935	0.823	########	########	########	0.00	0.00
44.620	273.800	8.916	5487.5	3826.4	190.518	3.289	2.11		Sand	31.5			258.79	0.86	221.35	304.27	0.85	0.935	0.822	########	########	2444261.11	0.00	0.00
44.780	286.400	11.002	5507.5	3836.4	199.107	3.879	2.15		Sand	35.4			270.70	0.85	231.37	322.94	0.85	0.935	0.821	########	########	########	0.00	0.00
44.950	309.210	12.629	5528.8	3847.1	214.813	4.121	2.16		Sand	35.7			292.26	0.85	249.62	345.88	0.85	0.935	0.821	########	########	########	0.00	0.00
45.110	387.300	14.806	5548.8	3857.1	269.195	3.851	2.08		Sand	29.7			366.07	0.85	312.44	410.35	0.85	0.935	0.820	########	########	########	0.00	0.00
45.280	319.860	13.258	5570.0	3867.7	221.670	4.181	2.16		Sand	35.6			302.33	0.85	257.85	355.76	0.85	0.935	0.819	########	########	########	0.00	0.00
45.440	268.630	12.118	5590.0	3877.7	185.607	4.559	2.23		Sand	41.4			253.90	0.85	216.40	312.11	0.85	0.935	0.818	########	########	########	0.00	0.00
45.600	246.360	12.295	5610.0	3887.8	169.832	5.048	2.29		Sand	46.1			232.85	0.85	198.33	293.86	0.85	0.935	0.818	########	########	258231.38	0.00	0.00
45.770	314.650	11.482	5631.3	3898.4	217.147	3.682	2.12		Sand	32.2			297.40	0.85	253.12	344.18	0.85	0.935	0.817	########	########	########	0.00	0.00
45.930	216.120	9.990	5651.3	3908.4	148.338	4.684	2.29		Sand	46.5			204.27	0.85	173.74	263.30	0.85	0.935	0.816	727.963	1306.709	1396.90	0.00	0.00
46.100	198.170	7.884	5672.5	3919.1	135.662	4.036	2.26		Sand	44.1			187.31	0.84	157.80	241.40	0.85	0.935	0.815	49.789	89.283	95.44	0.00	0.00
46.260	167.200	8.072	5692.5	3929.1	114.000	4.911	2.38		Sand	53.1			158.03	0.82	130.17	212.34	0.85	0.935	0.814	4.079	7.307	7.81	0.00	0.00
46.420	155.490	9.404	5712.5	3939.1	105.736	6.161	2.48		Sand	61.1			146.97	0.82	120.03	202.79	0.85	0.935	0.831	2.219	4.058	4.34	0.00	0.00
46.590	326.950	9.867	5733.8	3949.7	224.205	3.045	2.04		Sand	26.1			309.03	0.85	262.11	340.99	0.84	0.935	0.813	########	########	########	0.00	0.00
46.750	254.530	9.751	5753.8	3959.8	173.876	3.875	2.19		Sand	37.9			240.58	0.85	203.92	292.65	0.84	0.935	0.812	########	########	200690.13	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No. 3

PGA (A_{max}) 1.12

Total Settlement: 0.68 (Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	s_{vc} (psf)	Insitu s'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_s for Sand	$CRR_{M=7.5, s'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
0.160	3.300	0.130	19.2	19.2	83.621	3.954	2.39		Unsaturated	53.9			3.12	1.70	5.30	53.94	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.330	3.970	0.204	39.6	39.6	60.479	5.172	2.57		Unsaturated	68.4			3.75	1.70	6.38	58.57	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.490	12.960	0.217	58.8	58.8	73.317	1.681	2.16		Unsaturated	35.8			12.25	1.70	20.82	65.10	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.660	38.000	0.329	79.2	79.2	185.456	0.867	1.67		Unsaturated	0.0			35.92	1.70	61.06	61.06	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.820	35.490	0.325	98.4	98.4	155.338	0.918	1.74		Unsaturated	2.4			33.54	1.70	57.03	57.03	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.980	31.220	0.284	117.6	117.6	124.935	0.910	1.81		Unsaturated	7.8			29.51	1.70	50.16	52.39	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.150	24.610	0.198	138.0	138.0	90.829	0.808	1.89		Unsaturated	13.9			23.26	1.70	39.54	54.78	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.310	17.880	0.067	157.2	157.2	61.731	0.375	1.86		Unsaturated	11.6			16.90	1.70	28.73	37.95	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.480	15.130	0.052	177.6	177.6	49.072	0.346	1.93		Unsaturated	17.8			14.30	1.70	24.31	46.85	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.640	13.310	0.040	196.8	196.8	40.946	0.305	1.99		Unsaturated	21.9			12.58	1.70	21.39	50.98	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.800	11.140	0.038	216.0	216.0	32.636	0.341	2.10		Unsaturated	30.7			10.53	1.70	17.90	57.43	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.970	9.190	0.034	236.4	236.4	25.653	0.374	2.21		Unsaturated	39.6			8.69	1.70	14.77	60.05	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.130	8.710	0.041	255.6	255.6	23.339	0.474	2.28		Unsaturated	45.8			8.23	1.70	14.00	62.09	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.300	9.510	0.050	276.0	276.0	24.527	0.532	2.29		Unsaturated	45.8			8.99	1.70	15.28	63.72	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.460	8.780	0.049	295.2	295.2	21.845	0.565	2.34		Unsaturated	50.4			8.30	1.70	14.11	63.98	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.620	8.700	0.051	314.4	314.4	20.947	0.596	2.37		Unsaturated	52.4			8.22	1.70	13.98	64.51	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.790	8.100	0.050	334.8	334.8	18.849	0.635	2.42		Unsaturated	56.7			7.66	1.70	13.02	64.54	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.950	8.690	0.052	354.0	354.0	19.672	0.606	2.40		Unsaturated	54.7			8.21	1.70	13.96	65.18	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.120	8.870	0.050	374.4	374.4	19.510	0.576	2.39		Unsaturated	54.2			8.38	1.70	14.25	65.40	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.280	9.000	0.057	393.6	393.6	19.292	0.646	2.42		Unsaturated	56.2			8.51	1.70	14.46	66.25	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.440	9.120	0.068	412.8	412.8	19.075	0.763	2.45		Unsaturated	59.1			8.62	1.70	14.65	67.26	1.00	0.727	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.610	9.080	0.078	433.2	433.2	18.515	0.878	2.49		Unsaturated	62.3			8.58	1.70	14.59	67.92	1.00	0.727	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.770	10.210	0.080	452.4	452.4	20.408	0.800	2.43		Unsaturated	57.8			9.65	1.70	16.41	69.15	1.00	0.727	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.940	11.000	0.093	472.8	472.8	21.522	0.861	2.43		Unsaturated	57.3			10.40	1.70	17.67	70.66	1.00	0.727	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.100	11.970	0.150	492.0	492.0	22.981	1.279	2.49		Unsaturated	62.3			11.31	1.70	19.23	73.89	1.00	0.726	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.270	12.040	0.223	512.4	512.4	22.634	1.889	2.59		Unsaturated	70.3			11.38	1.70	19.35	75.65	1.00	0.726	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.430	15.950	0.258	531.6	531.6	29.576	1.643	2.46		Unsaturated	59.9			15.08	1.70	25.63	81.50	1.00	0.726	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.590	18.680	0.230	550.8	550.8	34.096	1.252	2.34		Unsaturated	50.4			17.66	1.70	30.02	84.14	1.00	0.726	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.760	21.520	0.180	571.2	571.2	38.629	0.850	2.21		Unsaturated	39.5			20.34	1.70	34.58	84.53	1.00	0.725	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.920	22.220	0.318	590.4	590.4	39.231	1.450	2.33		Unsaturated	49.4			21.00	1.70	35.70	90.93	1.00	0.725	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.090	22.620	0.662	610.8	610.8	39.257	2.968	2.53		Unsaturated	65.1			21.38	1.70	36.35	96.52	1.00	0.725	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.250	24.950	1.248	630.0	630.0	54.374	5.065	2.59		Unsaturated	70.3			23.58	1.70	40.09	102.44	1.00	0.724	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.410	30.040	2.492	649.2	649.2	91.545	8.386	2.62		Unsaturated	72.7			28.39	1.70	48.27	113.48	0.99	0.724	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.580	199.720	3.418	669.6	669.6	335.010	1.714	1.73		Unsaturated	1.7			188.77	1.35	255.72	255.72	0.99	0.724	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.740	194.570	2.866	688.8	688.8	321.760	1.476	1.69		Unsaturated	0.0			183.90	1.35	248.88	248.88	0.99	0.724	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.910	212.770	1.610	709.2	709.2	346.796	0.758	1.44		Unsaturated	0.0			201.11	1.33	268.33	268.33	0.99	0.723	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.070	209.420	1.055	728.4	728.4	336.782	0.505	1.32		Unsaturated	0.0			197.94	1.32	262.25	262.25	0.99	0.723	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.230	191.250	0.951	747.6	747.6	303.521	0.498	1.35		Unsaturated	0.0			180.77	1.34	241.43	241.43	0.99	0.723	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.400	151.290	0.963	768.0	768.0	236.754	0.638	1.50		Unsaturated	0.0			143.00	1.40	199.76	199.76	0.99	0.722	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.560	137.520	1.047	787.2	787.2	212.496	0.764	1.59		Unsaturated	0.0			129.98	1.42	184.00	184.00	0.99	0.722	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.730	107.110	2.100	807.6	807.6	163.254	1.968	1.97		Unsaturated	20.4			101.24	1.40	141.72	185.57	0.99	0.722	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.890	91.250	1.373	826.8	826.8	137.351	1.512	1.93		Unsaturated	17.6			86.25	1.44	124.49	157.86	0.99	0.722	1.100	n.a.	n.a.	n.a.	0.00	0.00
7.050	109.360	5.143	846.0	846.0	162.840	4.721	2.27		Unsaturated	44.9			103.36	1.33	137.16	216.18	0.99	0.721	1.100	n.a.	n.a.	n.a.	0.00	0.00
7.220	212.810	7.004	866.4	866.4	313.704	3.298	1.99		Unsaturated	22.4			201.14	1.27	254.58	321.01	0.99	0.721	1.100	n.a.	n.a.	n.a.	0.00	0.00
7.380	413.700	5.011	885.6	885.6	603.773	1.213	1.47		Unsaturated	0.0			391.02	1.26	492.04	492.04	0.99	0.721	1.100	n.a.	n.a.	n.a.	0.00	0.00
7.550	428.680	2.506	906.0	906.0	618.560	0.585	1.20		Unsaturated	0.0			405.18	1.25	506.80	506.80	0.99	0.720	1.100	n.a.	n.a.	n.a.	0.00	0.00
7.710	458.350	5.155	925.2	925.2	654.505	1.126	1.43		Unsaturated	0.0			433.22	1.24	538.89	538.89	0.99	0.720	1.100	n.a.	n.a.	n.a.	0.00	0.00
7.870	477.360	4.002	944.4	944.4	674.699	0.839	1.31		Unsaturated	0.0			451.19	1.24	558.20	558.20	0.99	0.720	1.100	n.a.	n.a.	n.a.	0.00	0.00
8.040	646.030	4.893	964.8	964.8	903.612	0.758	1.21		Unsaturated	0.0			610.61	1.23	751.19	751.19	0.99	0.719	1.100	n.a.	n.a.	n.a.	0.00	0.00
8.200	355.130	4.156	984.0	984.0	491.541	1.172	1.51		Unsaturated	0.0			335.66	1.22	410.80	410.80	0.99	0.719	1.100	n.a.	n.a.	n.a.	0.00	0.00
8.370	392.110	3.269	1004.4	1004.4	537.242	0.835	1.36		Unsaturated	0.0			370.61	1.22	451.13	451.13	0.99	0.719	1.100	n.a.	n.a.	n.a.	0.00	0.00
8.530	369.310	2.166	1023.6	1023.6	501.182	0.587	1.25		Unsaturated	0.0			349.06	1.21	422.78	422.78	0.99	0.718	1.100	n.a.	n.a.	n.a.	0.00	0.00
8.690	315.400	2.636	1042.8	1042.8	423.950	0.837	1.42		Unsaturated	0.0			298.11	1.21	359.30	359.30	0.99	0.718	1.100	n.a.	n.a.	n.a.	0.00	0.00
8.860	284.430	2.196	1063.2	1063.2	378.554	0.773	1.42		Unsaturated	0.0			268.84	1.20	322.36	322.36	0.99	0.718	1.100	n.a.	n.a.	n.a.	0.00	0.00
9.020	256.630	2.773	1082.4	1082.4	338.430	1.083	1.57		Unsaturated	0.0			242.56	1.19	289.49	289.49	0.99	0.718	1.100	n.a.	n.a.	n.a.	0.00	0.00
9.190	216.730	2.667	1102.8	1102.8	283.033	1.234	1.66		Unsaturated	0.0			204.85	1.20	244.91	244.91	0.99	0.717	1.100	n.a.	n.a.	n.a.	0.00	0.00
9.350	236.200	2.542	1122.0	1122.0	305.860	1.079	1.59		Unsaturated	0.0			223.25	1.18	263.93	263.93	0.98	0.717	1.100	n.a.	n.a.	n.a.	0.00	0.00
9.510	173.300	3.287	1141.2	1141.2	222.309	1.903	1.87		Unsaturated	12.9			163.80	1.21	197.63	219.81	0.98	0.717	1.100	n.a.	n.a.	n.a.	0.00	0.00
9.680	173.360	2.381	1161.6	1161.6	220.412	1.378	1.77		Unsaturated	4.2			163.86	1.22	199.70	199.75	0.98	0.716	1.100	n.a.	n.a.	n.a.	0.00	0.00
9.840	177.280	2.473	1180.8	1180.8	223.560	1.399	1.77		Unsaturated	4.3			167.56	1.21	202.65	202.71	0.98	0.716	1.100	n.a.	n.a.	n.a.	0.00	0.00
10.010	171.120	2.464	1201.2	1201.2	213.914	1.445	1.79		Unsaturated	6.2			161.74	1.21	195.44	196.43	0.98	0.716	1.100	n.a.	n.a.	n.a.	0.00	0.00
10.170	181.750	1.681	1220.4	1220.4	225.442	0.928	1.63		Unsaturated	0.0			171.79	1.19	205.17	205.17	0.98	0.715	1.100	n.a.	n.a.	n.a.	0.00	0.00
10.330	204.470	2.093	1239.6	1239.6	251.734	1.027	1.63		Unsaturated	0.0			193.26	1.17	226.40	226.40	0.98	0.715	1.100	n.a.	n.a.	n.a.	0.00	0.00
10.500	155.260	2.251	1260.0	1260.0	189.400	1.456	1.83		Unsaturated	9.1			146.75	1.20	176.19	183.11	0.98	0.715	1.100	n.a.	n.a.	n.a.	0.00	0.00
10.660	152.030	0.467	1279.2	1279.2	184.035	0.308	1.40		Unsaturated	0.0			143.70	1.20	172.89	172.89	0.98	0.714	1.099	n.a.	n.a.	n.a.	0.00	0.00
10.830	129.800	1.357	1299.6	1299.6	155.762	1.051	1.78		Unsaturated	5.5			122.68	1.22	149.36	149.76	0.98	0.714	1.078	n.a.	n.a.	n.a.	0.00	0.00
10.990	144.110	1.607	1318.8	1318.8	171.745	1.120	1.77		Unsaturated	4.7			136.21	1.20	163.18	163.29	0.98	0.714	1.085	n.a.	n.a.	n.a.	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No.	3

PGA (A_{max})	1.12

Total Settlement:	0.68	(Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_s for Sand	$CRR_{M=7.5, \sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
11.150	111.310	1.859	1338.0	1338.0	131.510	1.680	1.98		Unsaturated	21.3			105.21	1.19	124.88	168.54	0.98	0.713	1.087	n.a.	n.a.	n.a.	0.00	0.00
11.320	139.330	1.738	1358.4	1358.4	163.561	1.254	1.82		Unsaturated	8.7			131.69	1.19	156.18	161.54	0.98	0.713	1.079	n.a.	n.a.	n.a.	0.00	0.00
11.480	167.490	1.469	1377.6	1377.6	195.393	0.881	1.66		Unsaturated	0.0			158.31	1.16	184.07	184.07	0.98	0.713	1.095	n.a.	n.a.	n.a.	0.00	0.00
11.650	184.510	2.721	1398.0	1398.0	213.742	1.480	1.80		Unsaturated	6.8			174.40	1.15	199.74	201.61	0.98	0.712	1.100	n.a.	n.a.	n.a.	0.00	0.00
11.810	170.310	2.784	1417.2	1417.2	195.878	1.642	1.86		Unsaturated	11.5			160.97	1.14	183.74	199.67	0.98	0.712	1.100	n.a.	n.a.	n.a.	0.00	0.00
11.980	171.110	3.601	1437.6	1437.6	195.389	2.113	1.94		Unsaturated	18.5			161.73	1.12	181.50	224.46	0.98	0.712	1.100	n.a.	n.a.	n.a.	0.00	0.00
12.140	262.230	6.004	1456.8	1456.8	297.884	2.296	1.87		Unsaturated	12.5			247.85	1.10	273.51	298.22	0.98	0.711	1.100	n.a.	n.a.	n.a.	0.00	0.00
12.300	213.190	5.893	1476.0	1476.0	240.431	2.774	1.99		Unsaturated	22.0			201.50	1.10	221.59	281.83	0.98	0.711	1.100	n.a.	n.a.	n.a.	0.00	0.00
12.470	292.100	5.751	1496.4	1496.4	327.466	1.974	1.79		Unsaturated	6.3			276.09	1.10	302.51	303.93	0.98	0.710	1.100	n.a.	n.a.	n.a.	0.00	0.00
12.630	359.880	4.009	1515.6	1515.6	401.072	1.116	1.54		Unsaturated	0.0			340.15	1.09	371.46	371.46	0.98	0.710	1.100	n.a.	n.a.	n.a.	0.00	0.00
12.800	345.680	5.948	1536.0	1536.0	382.635	1.724	1.71		Unsaturated	0.0			326.73	1.09	355.54	355.54	0.97	0.710	1.096	n.a.	n.a.	n.a.	0.00	0.00
12.960	434.680	6.038	1555.2	1555.2	478.378	1.391	1.58		Unsaturated	0.0			410.85	1.08	445.62	445.62	0.97	0.709	1.092	n.a.	n.a.	n.a.	0.00	0.00
13.120	544.670	6.107	1574.4	1574.4	595.964	1.123	1.45		Unsaturated	0.0			514.81	1.08	556.57	556.57	0.97	0.709	1.089	n.a.	n.a.	n.a.	0.00	0.00
13.290	316.800	4.620	1594.8	1594.8	344.041	1.462	1.67		Unsaturated	0.0			299.43	1.08	322.63	322.63	0.97	0.709	1.085	n.a.	n.a.	n.a.	0.00	0.00
13.450	346.770	7.021	1614.0	1614.0	374.412	2.029	1.77		Unsaturated	4.7			327.76	1.07	352.03	352.21	0.97	0.708	1.081	n.a.	n.a.	n.a.	0.00	0.00
13.620	366.550	9.124	1634.4	1634.4	393.330	2.495	1.84		Unsaturated	10.1			346.46	1.07	370.88	386.73	0.97	0.708	1.077	n.a.	n.a.	n.a.	0.00	0.00
13.780	329.470	5.536	1653.6	1653.6	351.384	1.684	1.72		Unsaturated	0.3			311.41	1.07	332.34	332.34	0.97	0.708	1.074	n.a.	n.a.	n.a.	0.00	0.00
13.940	430.830	5.769	1672.8	1672.8	457.101	1.342	1.57		Unsaturated	0.0			407.21	1.06	433.26	433.26	0.97	0.707	1.071	n.a.	n.a.	n.a.	0.00	0.00
14.110	406.600	6.109	1693.2	1693.2	428.726	1.506	1.63		Unsaturated	0.0			384.31	1.06	407.59	407.59	0.97	0.707	1.067	n.a.	n.a.	n.a.	0.00	0.00
14.270	287.910	4.428	1712.4	1712.4	301.601	1.542	1.72		Unsaturated	0.7			272.13	1.06	287.75	287.75	0.97	0.707	1.063	n.a.	n.a.	n.a.	0.00	0.00
14.440	240.190	3.326	1732.8	1732.8	249.967	1.390	1.73		Unsaturated	1.7			227.02	1.06	240.07	240.07	0.97	0.706	1.060	n.a.	n.a.	n.a.	0.00	0.00
14.600	212.250	2.536	1752.0	1752.0	219.562	1.200	1.72		Unsaturated	0.7			200.61	1.06	212.82	212.82	0.97	0.706	1.057	n.a.	n.a.	n.a.	0.00	0.00
14.760	149.760	2.003	1771.2	1771.2	153.801	1.346	1.86		Unsaturated	11.9			141.55	1.07	151.34	167.25	0.97	0.705	1.033	n.a.	n.a.	n.a.	0.00	0.00
14.930	212.900	2.055	1791.6	1791.6	217.769	0.969	1.65		Unsaturated	0.0			201.23	1.05	212.02	212.02	0.97	0.705	1.050	n.a.	n.a.	n.a.	0.00	0.00
15.090	186.080	1.059	1810.8	1810.8	189.199	0.572	1.54		Sand	0.0			175.88	1.06	185.71	185.71	0.97	0.707	1.035	0.923	2.091	2.96	0.00	0.00
15.260	152.420	1.245	1831.2	1831.2	153.932	0.822	1.71		Sand	0.0			144.06	1.06	152.62	152.62	0.97	0.711	1.024	0.307	0.534	0.75	0.02	0.03
15.420	148.420	1.150	1850.4	1850.4	149.079	0.780	1.71		Sand	0.0			140.28	1.06	148.14	148.14	0.97	0.714	1.021	0.277	0.466	0.65	0.02	0.04
15.580	126.160	1.813	1869.6	1869.6	125.919	1.448	1.95		Sand	18.6			119.24	1.05	125.06	161.55	0.97	0.717	1.022	0.388	0.719	1.00	0.01	0.02
15.750	132.140	2.612	1890.0	1890.0	131.207	1.991	2.03		Sand	25.7			124.90	1.04	129.95	184.17	0.97	0.721	1.025	0.863	1.913	2.65	0.00	0.00
15.910	108.110	2.803	1909.2	1909.2	106.625	2.615	2.18		Sand	37.6			102.18	1.04	106.14	171.55	0.97	0.724	1.020	0.531	1.059	1.46	0.00	0.00
16.080	100.720	3.305	1929.6	1929.6	98.736	3.313	2.28		Sand	45.5			95.20	1.04	98.55	168.14	0.96	0.728	1.017	0.474	0.918	1.26	0.00	0.01
16.240	153.970	2.384	1948.8	1948.8	150.684	1.558	1.91		Sand	16.1			145.53	1.03	149.85	181.22	0.96	0.731	1.018	0.763	1.638	2.24	0.00	0.00
16.400	185.530	1.006	1968.0	1968.0	180.869	0.545	1.54		Sand	0.0			175.36	1.03	179.96	179.96	0.96	0.734	1.015	0.725	1.538	2.09	0.00	0.00
16.570	198.320	1.668	1988.4	1988.4	192.400	0.845	1.65		Sand	0.0			187.45	1.02	191.47	191.47	0.96	0.737	1.015	1.207	2.695	3.65	0.00	0.00
16.730	199.330	1.753	2007.6	2007.6	192.448	0.884	1.66		Sand	0.0			188.40	1.02	191.81	191.81	0.96	0.740	1.013	1.227	2.734	3.69	0.00	0.00
16.900	189.360	3.073	2028.0	2028.0	181.842	1.631	1.88		Sand	13.0			178.98	1.01	181.47	203.34	0.96	0.744	1.012	2.293	5.103	6.86	0.00	0.00
17.060	142.570	2.252	2047.2	2047.2	136.016	1.591	1.95		Sand	19.1			134.75	1.01	136.38	175.73	0.96	0.747	1.007	0.616	1.253	1.68	0.00	0.00
17.220	99.340	4.724	2066.4	2066.4	94.026	4.805	2.42		Sand	56.6			93.89	1.01	94.73	168.76	0.96	0.750	1.004	0.483	0.929	1.24	0.00	0.01
17.390	118.300	3.039	2086.8	2086.8	111.601	2.592	2.17		Sand	36.3			111.81	1.01	112.38	177.99	0.96	0.753	1.003	0.671	1.384	1.84	0.00	0.00
17.550	179.250	3.382	2106.0	2106.0	168.828	1.898	1.95		Sand	18.7			169.42	1.00	169.68	212.02	0.96	0.756	1.001	3.990	8.791	11.63	0.00	0.00
17.720	60.180	3.596	2126.4	2126.4	55.603	6.082	2.64		Clay	74.5			56.88	1.00	n.a.	n.a.	0.96	0.759	n.a.	n.a.	n.a.	n.a.	0.00	0.00
17.880	49.080	0.735	2145.6	2145.6	45.061	1.530	2.30		Sand	46.7		1.8	83.50	0.99	83.03	149.31	0.96	0.761	0.998	0.284	0.471	0.62	0.02	0.04
18.040	19.520	0.616	2165.0	2162.5	17.052	3.339	2.84		Clay	90.0			18.45	0.99	n.a.	n.a.	0.96	0.764	n.a.	n.a.	n.a.	n.a.	0.00	0.00
18.210	11.480	0.751	2186.3	2173.1	9.559	7.228	3.24		Clay	100.0			10.85	0.99	n.a.	n.a.	0.96	0.767	n.a.	n.a.	n.a.	n.a.	0.00	0.00
18.370	19.310	2.187	2206.3	2183.2	16.679	12.014	3.22		Clay	100.0			18.25	0.99	n.a.	n.a.	0.96	0.770	n.a.	n.a.	n.a.	n.a.	0.00	0.00
18.540	53.450	1.247	2227.5	2193.8	48.582	2.383	2.39		Sand	54.5	335.33		335.33	0.99	332.15	470.05	0.96	0.773	0.989	########	########	########	0.00	0.00
18.700	142.640	10.658	2247.5	2203.8	131.066	7.531	2.50		Sand	62.6	335.33		335.33	0.99	331.75	475.11	0.96	0.775	0.988	########	########	########	0.00	0.00
18.860	244.120	8.491	2267.5	2213.8	224.533	3.495	2.09		Sand	30.1	335.33		335.33	0.99	331.36	434.02	0.96	0.778	0.986	########	########	########	0.00	0.00
19.030	354.780	12.319	2288.8	2224.5	325.997	3.484	2.01		Sand	23.4			335.33	0.99	330.94	413.13	0.96	0.780	0.985	########	########	########	0.00	0.00
19.190	185.340	5.212	2308.8	2234.5	169.410	2.830	2.08		Sand	29.6			175.18	0.98	172.55	242.07	0.95	0.783	0.984	53.419	115.601	147.65	0.00	0.00
19.360	165.970	2.634	2330.0	2245.1	151.224	1.598	1.92		Sand	16.7			156.87	0.98	153.68	187.41	0.95	0.786	0.986	0.997	2.163	2.75	0.00	0.00
19.520	197.300	2.408	2350.0	2255.2	179.563	1.228	1.79		Sand	5.9			186.48	0.98	182.34	183.06	0.95	0.788	0.986	0.823	1.739	2.21	0.00	0.00
19.690	205.840	1.990	2371.3	2265.8	186.932	0.972	1.70		Sand	0.0			194.56	0.98	190.04	190.04	0.95	0.791	0.984	1.127	2.439	3.09	0.00	0.00
19.850	169.810	1.796	2391.3	2275.8	153.673	1.065	1.79		Sand	6.2			160.50	0.97	155.98	156.86	0.95	0.793	0.988	0.341	0.590	0.74	0.02	0.03
20.010	167.300	0.360	2411.3	2285.8	151.045	0.217	1.41		Sand	0.0			158.13	0.97	153.35	153.35	0.95	0.795	0.987	0.312	0.527	0.66	0.02	0.04
20.180	179.850	1.834	2432.5	2296.5	162.071	1.027	1.76		Sand	4.0			169.99	0.97	164.79	164.81	0.95	0.798	0.985	0.427	0.781	0.98	0.01	0.02
20.340	221.170	2.472	2452.5	2306.5	199.117	1.124	1.73		Sand	1.2			209.05	0.97	203.27	203.27	0.95	0.800	0.976	2.283	4.904	6.13	0.00	0.00
20.510	255.100	2.921	2473.8	2317.1	229.296	1.151	1.69		Sand	0.0			241.12	0.97	234.94	234.94	0.95	0.802	0.973	25.972	55.582	69.27	0.00	0.00
20.670	168.190	2.191	2493.8	2327.1	150.463	1.313	1.86		Sand	11.8			158.97	0.97	153.43	169.08	0.95	0.805	0.982	0.488	0.920	1.14	0.01	0.01
20.830	150.230	1.225	2513.8	2337.2	133.979	0.823	1.76		Sand	3.7			141.99	0.96	136.09	136.10	0.95	0.807	0.986	0.218	0.328	0.41	0.02	0.05
21.000	158.130	1.291	2535.0	2347.8	140.754	0.823	1.74		Sand	2.4			149.46	0.96	143.15	143.15	0.95	0.809	0.984	0.249	0.391	0.48	0.02	0.04
21.160	181.970	1.179	2555.0	2357.8	161.792	0.653	1.63		Sand	0.0			171.99	0.96	165.08	165.08	0.95	0.811	0.980	0.430	0.785	0.97	0.01	0.02
21.330	172.620	1.363	2576.3	2368.5	153.066	0.795	1.71		Sand	0.0			163.16	0.96	156.08	156.08	0.95	0.813	0.981	0.334	0.571	0.70	0.02	0.03
21.490	149.460	1.158	2596.3	2378.5	132.087	0.781	1.75		Sand	2.9			141.27	0.95	134.34	134.34	0.95	0.815	0.984	0.212	0.314	0.38	0.02	0.05
21.650	136.160	1.286	2616.3	2388.5	119.969	0.953	1.84		Sand	9.9			128.70	0.95	122.05	130.15	0.95	0.818	0.984	0.198	0.286	0.35	0.02	0.05
21.820	136.790	1.753	2637.5	2399.1	120.252	1.294	1.93		Sand	17.0			129.29	0.95	123.02	154.50	0.95	0.820	0.979	0.321	0.542	0.66	0.02	0.04
21.980	153.140	2.365	2657.5	2409.1	134.476	1.558	1.95		Sand	18.8			144.74	0.95	138.11	176.89	0.94	0.822	0.973	0.643	1.277	1.55	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No. 3

PGA (A_{max}) 1.12

Total Settlement: 0.68 (Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	s_{vc} (psf)	Insitu s'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_s for Sand	CRR$_{M=7.5, s'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
22.150	219.360	4.188	2678.8	2419.8	192.700	1.921	1.91		Sand	16.2			207.33	0.96	199.56	235.76	0.94	0.824	0.960	28.110	59.354	72.06	0.00	0.00
22.310	470.090	6.273	2698.8	2429.8	413.446	1.338	1.59		Sand	0.0			444.32	0.96	428.40	428.40	0.94	0.826	0.959	########	########	########	0.00	0.00
22.470	346.220	5.635	2718.8	2439.8	303.555	1.634	1.74		Sand	2.3			327.24	0.96	315.17	315.17	0.94	0.828	0.957	########	########	########	0.00	0.00
22.640	316.690	5.188	2740.0	2450.5	276.949	1.645	1.77		Sand	4.3			299.33	0.96	287.96	288.03	0.94	0.830	0.956	42653.569	89706.643	108138.59	0.00	0.00
22.800	187.800	4.349	2760.0	2460.5	163.401	2.333	2.03		Sand	25.0			177.50	0.96	169.86	229.68	0.94	0.831	0.955	15.943	33.488	40.28	0.00	0.00
22.970	153.700	3.881	2781.3	2471.1	133.215	2.548	2.11		Sand	31.8			145.27	0.95	138.15	204.17	0.94	0.833	0.957	2.410	5.075	6.09	0.00	0.00
23.130	115.320	4.256	2801.3	2481.1	99.436	3.736	2.32		Sand	48.6			109.00	0.94	102.86	175.35	0.94	0.835	0.968	0.607	1.184	1.42	0.00	0.00
23.290	94.430	4.202	2821.3	2491.2	81.030	4.517	2.44		Sand	58.2			89.25	0.94	83.68	155.24	0.94	0.837	0.973	0.327	0.551	0.66	0.02	0.04
23.460	105.250	3.890	2842.5	2501.8	90.253	3.746	2.35		Sand	50.8			99.48	0.94	93.34	164.46	0.94	0.839	0.969	0.422	0.759	0.90	0.01	0.02
23.620	93.110	3.823	2862.5	2511.8	79.533	4.169	2.42		Sand	56.5			88.01	0.93	82.19	152.71	0.94	0.841	0.972	0.307	0.508	0.60	0.02	0.04
23.790	107.600	4.244	2883.8	2522.5	91.900	3.998	2.36		Sand	52.1			101.70	0.94	95.20	167.46	0.94	0.842	0.967	0.463	0.849	1.01	0.01	0.02
23.950	130.050	4.660	2903.8	2532.5	111.105	3.624	2.28		Sand	45.3			122.92	0.94	115.55	189.36	0.94	0.844	0.958	1.091	2.299	2.72	0.00	0.00
24.110	116.140	5.231	2923.8	2542.5	98.883	4.562	2.39		Sand	54.1			109.77	0.94	102.75	177.93	0.94	0.846	0.962	0.669	1.324	1.57	0.00	0.00
24.280	81.650	4.625	2945.0	2553.1	68.990	5.769	2.57		Sand	68.3			77.17	0.92	71.37	142.39	0.94	0.847	0.972	0.245	0.378	0.45	0.02	0.04
24.440	112.520	8.090	2965.0	2563.1	95.358	7.286	2.56		Sand	67.9			106.35	0.93	99.26	178.24	0.94	0.849	0.960	0.678	1.341	1.58	0.00	0.00
24.610	298.720	7.179	2986.3	2573.8	254.726	2.415	1.92		Sand	16.9			282.34	0.95	268.13	314.57	0.94	0.851	0.941	########	########	########	0.00	0.00
24.770	266.210	7.546	3006.3	2583.8	226.416	2.851	2.01		Sand	24.0			251.62	0.95	238.70	307.58	0.93	0.852	0.940	########	########	6615792.61	0.00	0.00
24.930	183.660	6.268	3026.3	2593.8	155.498	3.441	2.17		Sand	36.8			173.59	0.95	164.06	242.15	0.93	0.854	0.939	53.892	111.320	130.38	0.00	0.00
25.100	183.130	8.211	3047.5	2604.5	154.719	4.521	2.27		Sand	44.7			173.09	0.95	163.68	249.24	0.93	0.855	0.938	119.019	245.527	287.02	0.00	0.00
25.260	273.860	8.484	3067.5	2614.5	231.563	3.115	2.04		Sand	26.1			258.85	0.95	244.80	320.69	0.93	0.857	0.937	########	########	########	0.00	0.00
25.430	255.190	9.123	3088.8	2625.1	215.241	3.597	2.11		Sand	31.7			241.20	0.94	227.86	312.60	0.93	0.859	0.935	########	########	########	0.00	0.00
25.590	253.360	10.217	3108.8	2635.1	213.273	4.058	2.16		Sand	35.4			239.47	0.94	226.00	316.42	0.93	0.860	0.934	########	########	########	0.00	0.00
25.750	265.340	10.754	3128.8	2645.2	222.988	4.077	2.15		Sand	34.7			250.79	0.94	236.45	328.19	0.93	0.861	0.933	########	########	########	0.00	0.00
25.920	233.480	11.269	3150.0	2655.8	195.652	4.859	2.24		Sand	42.3			220.68	0.94	207.84	302.37	0.93	0.863	0.932	########	########	1955001.00	0.00	0.00
26.080	240.650	10.724	3170.0	2665.8	201.314	4.486	2.21		Sand	39.4			227.46	0.94	214.01	306.92	0.93	0.864	0.931	########	########	5526376.00	0.00	0.00
26.250	251.630	10.423	3191.3	2676.5	210.132	4.169	2.17		Sand	36.5			237.84	0.94	223.54	314.92	0.93	0.866	0.930	########	########	########	0.00	0.00
26.410	209.010	9.174	3211.3	2686.5	173.980	4.423	2.23		Sand	41.8			197.55	0.94	185.49	273.95	0.93	0.867	0.928	3623.064	7399.958	8533.70	0.00	0.00
26.570	214.600	8.308	3231.3	2696.5	178.329	3.901	2.18		Sand	37.6			202.84	0.94	190.27	275.44	0.93	0.868	0.927	4611.940	9408.370	10833.08	0.00	0.00
26.740	234.570	8.785	3252.5	2707.1	194.657	3.771	2.15		Sand	35.0			221.71	0.94	207.76	293.43	0.93	0.870	0.926	########	########	288258.73	0.00	0.00
26.900	230.830	10.364	3272.5	2717.1	191.170	4.522	2.22		Sand	40.6			218.18	0.94	204.25	296.13	0.93	0.871	0.925	########	########	500583.74	0.00	0.00
27.070	268.920	10.051	3293.8	2727.8	222.496	3.761	2.12		Sand	32.4			254.18	0.94	237.71	325.78	0.93	0.873	0.924	########	########	########	0.00	0.00
27.230	269.290	9.742	3313.8	2737.8	222.388	3.640	2.11		Sand	31.4			254.53	0.93	237.80	324.16	0.93	0.874	0.923	########	########	########	0.00	0.00
27.400	224.020	10.321	3335.0	2748.4	184.404	4.642	2.24		Sand	42.1			211.74	0.93	197.62	289.37	0.92	0.875	0.922	55146.421	########	127755.34	0.00	0.00
27.560	259.130	9.918	3355.0	2758.5	213.126	3.852	2.14		Sand	33.9			244.92	0.93	228.38	316.98	0.92	0.876	0.920	########	########	########	0.00	0.00
27.720	245.080	9.087	3375.0	2768.5	201.122	3.733	2.14		Sand	34.1			231.64	0.93	215.79	301.88	0.92	0.878	0.919	########	########	1702751.88	0.00	0.00
27.890	244.270	10.427	3396.3	2779.1	200.060	4.299	2.19		Sand	38.3			230.88	0.93	214.86	306.59	0.92	0.879	0.918	########	########	4971774.36	0.00	0.00
28.050	240.320	10.182	3416.3	2789.1	196.440	4.267	2.19		Sand	38.4			227.15	0.93	211.18	302.20	0.92	0.880	0.917	########	########	1819060.22	0.00	0.00
28.220	263.700	10.142	3437.5	2799.8	215.269	3.871	2.14		Sand	33.9			249.24	0.93	231.50	320.72	0.92	0.881	0.916	########	########	########	0.00	0.00
28.380	194.100	8.430	3457.5	2809.8	157.789	4.382	2.25		Sand	43.4			183.46	0.93	170.23	256.38	0.92	0.882	0.915	286.620	576.918	653.81	0.00	0.00
28.540	164.180	6.780	3477.5	2819.8	133.002	4.174	2.28		Sand	45.4			155.18	0.92	142.37	223.09	0.92	0.884	0.914	9.104	18.304	20.72	0.00	0.00
28.710	170.340	7.344	3498.8	2830.4	137.777	4.356	2.29		Sand	45.9			161.00	0.92	147.93	230.41	0.92	0.885	0.913	17.037	34.210	38.67	0.00	0.00
28.870	188.790	8.003	3518.8	2840.5	152.577	4.279	2.25		Sand	43.4			178.44	0.92	164.87	249.65	0.92	0.886	0.912	125.017	250.744	283.08	0.00	0.00
29.040	238.480	7.663	3540.0	2851.1	192.745	3.237	2.10		Sand	30.8			225.41	0.92	208.35	287.33	0.92	0.887	0.911	37338.086	74795.729	84331.96	0.00	0.00
29.200	184.380	7.238	3560.0	2861.1	148.424	3.964	2.23		Sand	41.7			174.27	0.92	160.31	242.55	0.92	0.888	0.909	56.243	112.536	126.73	0.00	0.00
29.360	146.680	7.635	3580.0	2871.1	117.567	5.269	2.39		Sand	54.5			138.64	0.91	125.75	207.37	0.92	0.889	0.912	2.938	5.897	6.63	0.00	0.00
29.530	204.430	7.354	3601.3	2881.8	164.114	3.629	2.18		Sand	37.2			193.22	0.92	178.10	259.92	0.92	0.890	0.907	457.132	912.498	1025.16	0.00	0.00
29.690	168.020	4.772	3621.3	2891.8	134.383	2.871	2.15		Sand	34.9			158.81	0.91	144.18	215.45	0.92	0.891	0.906	5.077	10.122	11.36	0.00	0.00
29.860	164.650	7.338	3642.5	2902.4	131.408	4.506	2.31		Sand	47.8			155.62	0.91	141.58	223.74	0.91	0.892	0.905	9.600	19.117	21.43	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No. 4

PGA (A_{max}) 1.12

Total Settlement: 0.00 (Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	s_{vc} (psf)	Insitu s'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_s for Sand	$CRR_{M=7.5, s'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
0.160	3.290	0.473	19.2	19.2	83.366	14.431	2.84		Unsaturated	90.1			3.11	1.70	5.29	60.00	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.330	28.080	0.737	39.6	39.6	193.872	2.628	2.02		Unsaturated	24.7			26.54	1.70	45.12	82.80	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.490	48.200	0.948	58.8	58.8	273.128	1.968	1.83		Unsaturated	9.7			45.56	1.70	77.45	83.68	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.660	50.450	0.978	79.2	79.2	246.280	1.939	1.85		Unsaturated	11.3			47.68	1.70	81.06	91.73	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.820	48.860	0.884	98.4	98.4	213.939	1.810	1.87		Unsaturated	12.3			46.18	1.70	78.51	91.89	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.980	44.890	0.703	117.6	117.6	179.742	1.567	1.87		Unsaturated	12.2			42.43	1.70	72.13	85.01	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.150	37.170	0.512	138.0	138.0	137.315	1.381	1.90		Unsaturated	15.3			35.13	1.70	59.72	80.21	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.310	28.800	0.430	157.2	157.2	99.598	1.496	2.03		Unsaturated	25.2			27.22	1.70	46.28	84.89	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.480	22.810	0.327	177.6	177.6	74.128	1.441	2.11		Unsaturated	32.0			21.56	1.70	36.65	81.29	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.640	15.850	0.218	196.8	196.8	48.818	1.385	2.24		Unsaturated	42.4			14.98	1.70	25.47	74.85	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.800	5.020	0.171	216.0	216.0	22.936	3.477	2.75		Unsaturated	82.8			4.74	1.70	8.07	62.85	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.970	2.640	0.153	236.4	236.4	21.335	6.083	2.93		Unsaturated	97.6			2.50	1.70	4.24	59.30	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.130	1.660	0.186	255.6	255.6	11.989	12.126	3.32		Unsaturated	100.0			1.57	1.70	2.67	57.43	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.300	6.790	0.181	276.0	276.0	26.163	2.715	2.64		Unsaturated	73.9			6.42	1.70	10.91	65.33	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.460	9.390	0.150	295.2	295.2	23.388	1.624	2.54		Unsaturated	66.3			8.88	1.70	15.09	69.42	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.620	11.230	0.125	314.4	314.4	27.151	1.126	2.40		Unsaturated	55.1			10.61	1.70	18.04	70.48	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.790	12.300	0.121	334.8	334.8	28.829	0.997	2.35		Unsaturated	51.1			11.63	1.70	19.76	71.39	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.950	11.710	0.108	354.0	354.0	26.651	0.933	2.37		Unsaturated	52.2			11.07	1.70	18.82	70.58	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.120	11.680	0.101	374.4	374.4	25.824	0.881	2.36		Unsaturated	52.2			11.04	1.70	18.77	70.50	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.280	11.460	0.116	393.6	393.6	24.683	1.026	2.42		Unsaturated	56.2			10.83	1.70	18.41	71.29	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.440	10.060	0.111	412.8	412.8	21.086	1.131	2.50		Unsaturated	62.6			9.51	1.70	16.16	70.02	1.00	0.727	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.610	9.940	0.133	433.2	433.2	20.312	1.366	2.55		Unsaturated	67.2			9.40	1.70	15.97	70.72	1.00	0.727	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.770	10.990	0.120	452.4	452.4	22.003	1.114	2.48		Unsaturated	61.1			10.39	1.70	17.66	71.59	1.00	0.727	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.940	11.660	0.121	472.8	472.8	22.842	1.060	2.45		Unsaturated	59.1			11.02	1.70	18.74	72.47	1.00	0.727	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.100	10.540	0.109	492.0	492.0	20.178	1.054	2.50		Unsaturated	62.7			9.96	1.70	16.94	71.04	1.00	0.726	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.270	10.100	0.111	512.4	512.4	18.907	1.126	2.54		Unsaturated	65.8			9.55	1.70	16.23	70.78	1.00	0.726	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.430	10.410	0.088	531.6	531.6	19.129	0.866	2.48		Unsaturated	61.0			9.84	1.70	16.73	70.38	1.00	0.726	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.590	11.020	0.083	550.8	550.8	19.905	0.775	2.44		Unsaturated	58.0			10.42	1.70	17.71	70.89	1.00	0.726	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.760	11.370	0.104	571.2	571.2	20.165	0.941	2.47		Unsaturated	60.8			10.75	1.70	18.27	72.30	1.00	0.725	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.920	11.490	0.138	590.4	590.4	20.032	1.230	2.53		Unsaturated	65.7			10.86	1.70	18.46	73.63	1.00	0.725	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.090	11.770	0.158	610.8	610.8	20.169	1.376	2.56		Unsaturated	67.5			11.12	1.70	18.91	74.57	1.00	0.725	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.250	11.780	0.167	630.0	630.0	19.860	1.452	2.57		Unsaturated	69.0			11.13	1.70	18.93	74.87	1.00	0.724	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.410	11.200	0.178	649.2	649.2	23.505	1.635	2.54		Unsaturated	66.3			10.59	1.70	18.00	73.16	0.99	0.724	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.580	11.480	0.181	669.6	669.6	23.572	1.620	2.54		Unsaturated	66.1			10.85	1.70	18.45	73.69	0.99	0.724	1.099	n.a.	n.a.	n.a.	0.00	0.00
5.740	13.390	0.218	688.8	688.8	21.612	1.672	2.58		Unsaturated	69.2			12.66	1.70	21.52	78.25	0.99	0.724	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.910	17.060	0.267	709.2	709.2	27.274	1.597	2.48		Unsaturated	61.6			16.12	1.70	27.41	84.22	0.99	0.723	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.070	21.240	0.373	728.4	728.4	33.630	1.787	2.44		Unsaturated	58.0			20.08	1.70	34.13	91.87	0.99	0.723	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.230	26.720	0.313	747.6	747.6	41.894	1.188	2.26		Unsaturated	43.5			25.26	1.69	42.71	96.98	0.99	0.723	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.400	37.680	0.760	768.0	768.0	58.513	2.037	2.29		Unsaturated	46.1			35.61	1.60	57.00	116.26	0.99	0.722	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.560	73.890	0.672	787.2	787.2	113.893	0.914	1.84		Unsaturated	10.3			69.84	1.57	109.94	118.91	0.99	0.722	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.730	129.010	0.862	807.6	807.6	196.760	0.671	1.57		Unsaturated	0.0			121.94	1.42	173.57	173.57	0.99	0.722	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.890	110.940	0.661	826.8	826.8	167.124	0.598	1.60		Unsaturated	0.0			104.86	1.46	152.57	152.57	0.99	0.722	1.100	n.a.	n.a.	n.a.	0.00	0.00
7.050	73.160	0.515	846.0	846.0	108.728	0.708	1.79		Unsaturated	6.1			69.15	1.55	107.44	108.13	0.99	0.721	1.100	n.a.	n.a.	n.a.	0.00	0.00
7.220	63.760	0.842	866.4	866.4	93.541	1.329	2.01		Unsaturated	24.0			60.26	1.47	88.72	132.66	0.99	0.721	1.100	n.a.	n.a.	n.a.	0.00	0.00
7.380	73.070	1.061	885.6	885.6	106.109	1.461	2.00		Unsaturated	23.1			69.06	1.44	99.15	142.91	0.99	0.721	1.100	n.a.	n.a.	n.a.	0.00	0.00
7.550	102.420	1.901	906.0	906.0	147.288	1.864	1.98		Unsaturated	21.3			96.81	1.36	131.64	176.41	0.99	0.720	1.100	n.a.	n.a.	n.a.	0.00	0.00
7.710	161.520	2.341	925.2	925.2	230.216	1.453	1.77		Unsaturated	4.7			152.67	1.31	200.39	200.52	0.99	0.720	1.100	n.a.	n.a.	n.a.	0.00	0.00
7.870	210.430	1.446	944.4	944.4	297.048	0.689	1.45		Unsaturated	0.0			198.89	1.24	247.52	247.52	0.99	0.720	1.100	n.a.	n.a.	n.a.	0.00	0.00
8.040	186.280	3.275	964.8	964.8	260.072	1.763	1.81		Unsaturated	7.5			176.07	1.26	222.32	225.57	0.99	0.719	1.100	n.a.	n.a.	n.a.	0.00	0.00
8.200	178.890	5.276	984.0	984.0	247.266	2.957	2.00		Unsaturated	23.4			169.08	1.22	206.93	268.85	0.99	0.719	1.100	n.a.	n.a.	n.a.	0.00	0.00
8.370	241.700	3.710	1004.4	1004.4	330.896	1.538	1.70		Unsaturated	0.0			228.45	1.22	278.08	278.08	0.99	0.719	1.100	n.a.	n.a.	n.a.	0.00	0.00
8.530	335.280	3.696	1023.6	1023.6	454.937	1.104	1.50		Unsaturated	0.0			316.90	1.21	383.82	383.82	0.99	0.718	1.100	n.a.	n.a.	n.a.	0.00	0.00
8.690	245.990	3.209	1042.8	1042.8	330.497	1.307	1.64		Unsaturated	0.0			232.50	1.21	280.23	280.23	0.99	0.718	1.100	n.a.	n.a.	n.a.	0.00	0.00
8.860	265.750	3.782	1063.2	1063.2	353.646	1.426	1.65		Unsaturated	0.0			251.18	1.20	301.19	301.19	0.99	0.718	1.100	n.a.	n.a.	n.a.	0.00	0.00
9.020	232.280	3.446	1082.4	1082.4	306.251	1.487	1.70		Unsaturated	0.0			219.55	1.19	262.02	262.02	0.99	0.718	1.100	n.a.	n.a.	n.a.	0.00	0.00
9.190	228.410	5.434	1102.8	1102.8	298.325	2.385	1.88		Unsaturated	13.6			215.89	1.19	256.39	285.58	0.99	0.717	1.100	n.a.	n.a.	n.a.	0.00	0.00
9.350	303.410	5.848	1122.0	1122.0	393.099	1.931	1.74		Unsaturated	2.3			286.78	1.18	339.03	339.03	0.98	0.717	1.100	n.a.	n.a.	n.a.	0.00	0.00
9.510	328.010	4.733	1141.2	1141.2	421.427	1.445	1.62		Unsaturated	0.0			310.03	1.18	364.88	364.88	0.98	0.717	1.100	n.a.	n.a.	n.a.	0.00	0.00
9.680	359.110	3.393	1161.6	1161.6	457.371	0.946	1.44		Unsaturated	0.0			339.42	1.17	397.61	397.61	0.98	0.716	1.100	n.a.	n.a.	n.a.	0.00	0.00
9.840	486.080	3.646	1180.8	1180.8	614.277	0.751	1.29		Unsaturated	0.0			459.43	1.17	535.87	535.87	0.98	0.716	1.100	n.a.	n.a.	n.a.	0.00	0.00
10.010	426.900	4.481	1201.2	1201.2	534.785	1.051	1.45		Unsaturated	0.0			403.50	1.16	468.51	468.51	0.98	0.716	1.100	n.a.	n.a.	n.a.	0.00	0.00
10.170	419.260	5.091	1220.4	1220.4	521.041	1.216	1.51		Unsaturated	0.0			396.28	1.16	458.20	458.20	0.98	0.715	1.100	n.a.	n.a.	n.a.	0.00	0.00
10.330	438.610	3.535	1239.6	1239.6	540.874	0.807	1.35		Unsaturated	0.0			414.57	1.15	477.38	477.38	0.98	0.715	1.100	n.a.	n.a.	n.a.	0.00	0.00
10.500	523.040	4.421	1260.0	1260.0	639.880	0.846	1.33		Unsaturated	0.0			494.37	1.15	566.82	566.82	0.98	0.715	1.100	n.a.	n.a.	n.a.	0.00	0.00
10.660	570.450	5.167	1279.2	1279.2	692.681	0.907	1.34		Unsaturated	0.0			539.18	1.14	615.74	615.74	0.98	0.714	1.100	n.a.	n.a.	n.a.	0.00	0.00
10.830	475.070	6.071	1299.6	1299.6	572.177	1.280	1.51		Unsaturated	0.0			449.03	1.14	510.65	510.65	0.98	0.714	1.100	n.a.	n.a.	n.a.	0.00	0.00
10.990	500.730	6.023	1318.8	1318.8	598.707	1.205	1.47		Unsaturated	0.0			473.28	1.13	536.16	536.16	0.98	0.714	1.100	n.a.	n.a.	n.a.	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No. 4

PGA (A_{max}) 1.12

Total Settlement: 0.00 (Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	s_{vc} (psf)	Insitu s'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_s for Sand	$CRR_{M=7.5, s'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
11.150	613.270	5.822	1338.0	1338.0	728.152	0.950	1.34		Unsaturated	0.0			579.65	1.13	654.16	654.16	0.98	0.713	1.100	n.a.	n.a.	n.a.	0.00	0.00
11.320	599.960	4.025	1358.4	1358.4	706.950	0.672	1.22		Unsaturated	0.0			567.07	1.12	637.41	637.41	0.98	0.713	1.100	n.a.	n.a.	n.a.	0.00	0.00
11.480	479.480	4.800	1377.6	1377.6	560.863	1.002	1.42		Unsaturated	0.0			453.19	1.12	507.53	507.53	0.98	0.713	1.100	n.a.	n.a.	n.a.	0.00	0.00
11.650	500.590	5.645	1398.0	1398.0	581.291	1.129	1.46		Unsaturated	0.0			473.15	1.12	527.82	527.82	0.98	0.712	1.100	n.a.	n.a.	n.a.	0.00	0.00
11.810	515.100	2.858	1417.2	1417.2	594.087	0.556	1.19		Unsaturated	0.0			486.86	1.11	541.17	541.17	0.98	0.712	1.100	n.a.	n.a.	n.a.	0.00	0.00
11.980	513.940	2.948	1437.6	1437.6	588.515	0.574	1.20		Unsaturated	0.0			485.77	1.11	537.92	537.92	0.98	0.712	1.100	n.a.	n.a.	n.a.	0.00	0.00
12.140	484.230	3.328	1456.8	1456.8	550.770	0.688	1.28		Unsaturated	0.0			457.68	1.10	505.05	505.05	0.98	0.711	1.100	n.a.	n.a.	n.a.	0.00	0.00
12.300	439.720	4.678	1476.0	1476.0	496.793	1.066	1.47		Unsaturated	0.0			415.61	1.10	457.05	457.05	0.98	0.711	1.100	n.a.	n.a.	n.a.	0.00	0.00
12.470	390.890	3.693	1496.4	1496.4	438.501	0.947	1.45		Unsaturated	0.0			369.46	1.10	404.82	404.82	0.98	0.710	1.100	n.a.	n.a.	n.a.	0.00	0.00

1.8

335.33
335.33
335.33

CORNERSTONE EARTH GROUP

CPT No. 5

PGA (A_{max}) 1.12

Total Settlement: 0.00 (Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	s_{vc} (psf)	Insitu s'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_s for Sand	$CRR_{M=7.5, s'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
0.160	6.140	0.896	19.2	19.2	155.795	14.609	2.71		Unsaturated	79.4			5.80	1.70	9.87	64.76	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.330	52.550	1.406	39.6	39.6	362.939	2.677	1.88		Unsaturated	13.6			49.67	1.70	84.44	102.00	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.490	99.590	1.907	58.8	58.8	564.509	1.915	1.67		Unsaturated	0.0			94.13	1.70	160.02	160.02	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.660	92.190	2.291	79.2	79.2	450.201	2.486	1.81		Unsaturated	7.8			87.14	1.70	148.13	151.38	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.820	73.480	2.225	98.4	98.4	321.850	3.031	1.95		Unsaturated	19.4			69.45	1.70	118.07	155.88	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.980	61.190	1.867	117.6	117.6	245.093	3.053	2.02		Unsaturated	24.5			57.84	1.70	98.32	144.71	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.150	55.500	1.355	138.0	138.0	205.157	2.444	1.98		Unsaturated	21.5			52.46	1.70	89.18	128.16	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.310	40.850	0.650	157.2	157.2	141.384	1.595	1.94		Unsaturated	18.2			38.61	1.70	65.64	94.04	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.480	27.660	0.492	177.6	177.6	89.951	1.783	2.11		Unsaturated	32.0			26.14	1.70	44.44	90.77	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.640	20.530	0.492	196.8	196.8	63.323	2.406	2.31		Unsaturated	48.0			19.40	1.70	32.99	86.92	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.800	17.870	0.486	216.0	216.0	52.546	2.737	2.41		Unsaturated	55.8			16.89	1.70	28.71	84.29	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.970	16.060	0.433	236.4	236.4	45.080	2.717	2.46		Unsaturated	59.5			15.18	1.70	25.81	81.63	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.130	13.570	0.448	255.6	255.6	36.556	3.334	2.58		Unsaturated	69.7			12.83	1.70	21.80	78.71	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.300	13.170	0.487	276.0	276.0	51.257	3.738	2.51		Unsaturated	64.0			12.45	1.70	21.16	76.74	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.460	12.600	0.508	295.2	295.2	46.725	4.080	2.57		Unsaturated	68.4			11.91	1.70	20.25	76.47	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.620	12.660	0.516	314.4	314.4	44.890	4.129	2.58		Unsaturated	69.7			11.97	1.70	20.34	76.83	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.790	13.250	0.484	334.8	334.8	44.949	3.700	2.55		Unsaturated	67.0			12.52	1.70	21.29	77.53	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.950	10.800	0.440	354.0	354.0	35.101	4.139	2.66		Unsaturated	75.8			10.21	1.70	17.35	73.98	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.120	9.900	0.389	374.4	374.4	30.859	4.009	2.69		Unsaturated	78.4			9.36	1.70	15.91	72.46	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.280	10.150	0.426	393.6	393.6	30.535	4.276	2.71		Unsaturated	80.1			9.59	1.70	16.31	73.23	1.00	0.728	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.440	10.550	0.433	412.8	412.8	30.692	4.182	2.71		Unsaturated	79.5			9.97	1.70	16.95	73.98	1.00	0.727	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.610	10.830	0.428	433.2	433.2	30.447	4.030	2.70		Unsaturated	78.8			10.24	1.70	17.40	74.47	1.00	0.727	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.770	11.370	0.435	452.4	452.4	31.013	3.900	2.68		Unsaturated	77.6			10.75	1.70	18.27	75.42	1.00	0.727	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.940	10.790	0.422	472.8	472.8	28.477	3.999	2.72		Unsaturated	80.4			10.20	1.70	17.34	74.59	1.00	0.727	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.100	11.230	0.399	492.0	492.0	28.824	3.634	2.69		Unsaturated	77.8			10.61	1.70	18.04	75.16	1.00	0.726	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.270	12.260	0.398	512.4	512.4	30.617	3.313	2.64		Unsaturated	74.1			11.59	1.70	19.70	76.75	1.00	0.726	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.430	11.690	0.374	531.6	531.6	28.398	3.269	2.66		Unsaturated	75.8			11.05	1.70	18.78	75.83	1.00	0.726	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.590	11.600	0.342	550.8	550.8	27.460	3.018	2.65		Unsaturated	74.9			10.96	1.70	18.64	75.50	1.00	0.726	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.760	10.600	0.352	571.2	571.2	24.382	3.412	2.72		Unsaturated	80.8			10.02	1.70	17.03	74.25	1.00	0.725	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.920	10.470	0.342	590.4	590.4	34.467	3.365	2.61		Unsaturated	71.4			9.90	1.70	16.82	72.59	1.00	0.725	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.090	9.950	0.329	610.8	610.8	31.580	3.409	2.64		Unsaturated	74.0			9.40	1.70	15.99	71.92	1.00	0.725	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.250	9.370	0.295	630.0	630.0	28.746	3.252	2.65		Unsaturated	75.4			8.86	1.70	15.06	70.93	1.00	0.724	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.410	8.780	0.281	649.2	649.2	26.049	3.319	2.69		Unsaturated	78.4			8.30	1.70	14.11	70.14	0.99	0.724	1.099	n.a.	n.a.	n.a.	0.00	0.00
5.580	8.000	0.284	669.6	669.6	22.895	3.700	2.77		Unsaturated	84.3			7.56	1.70	12.85	69.25	0.99	0.724	1.096	n.a.	n.a.	n.a.	0.00	0.00
5.740	7.430	0.287	688.8	688.8	20.574	4.043	2.83		Unsaturated	89.1			7.02	1.70	11.94	68.59	0.99	0.724	1.093	n.a.	n.a.	n.a.	0.00	0.00
5.910	7.680	0.300	709.2	709.2	20.658	4.093	2.83		Unsaturated	89.3			7.26	1.70	12.34	69.13	0.99	0.723	1.091	n.a.	n.a.	n.a.	0.00	0.00
6.070	7.760	0.319	728.4	728.4	20.307	4.309	2.85		Unsaturated	90.9			7.33	1.70	12.47	69.46	0.99	0.723	1.089	n.a.	n.a.	n.a.	0.00	0.00
6.230	7.820	0.330	747.6	747.6	19.920	4.428	2.86		Unsaturated	92.0			7.39	1.70	12.57	69.69	0.99	0.723	1.087	n.a.	n.a.	n.a.	0.00	0.00
6.400	8.310	0.459	768.0	768.0	20.641	5.796	2.93		Unsaturated	97.3			7.85	1.70	13.35	71.21	0.99	0.722	1.086	n.a.	n.a.	n.a.	0.00	0.00
6.560	12.500	0.489	787.2	787.2	30.758	4.039	2.70		Unsaturated	78.6			11.81	1.70	20.09	77.92	0.99	0.722	1.088	n.a.	n.a.	n.a.	0.00	0.00
6.730	19.260	0.714	807.6	807.6	34.978	3.785	2.64		Unsaturated	73.8			18.20	1.65	30.07	90.12	0.99	0.722	1.095	n.a.	n.a.	n.a.	0.00	0.00
6.890	35.630	0.725	826.8	826.8	53.250	2.059	2.32		Unsaturated	48.8			33.68	1.56	52.52	111.90	0.99	0.722	1.100	n.a.	n.a.	n.a.	0.00	0.00
7.050	66.120	0.804	846.0	846.0	98.205	1.224	1.97		Unsaturated	20.9			62.50	1.49	93.17	131.29	0.99	0.721	1.100	n.a.	n.a.	n.a.	0.00	0.00
7.220	86.090	0.926	866.4	866.4	126.525	1.081	1.86		Unsaturated	11.4			81.37	1.47	119.81	132.56	0.99	0.721	1.100	n.a.	n.a.	n.a.	0.00	0.00
7.380	96.380	0.765	885.6	885.6	140.165	0.797	1.73		Unsaturated	1.8			91.10	1.46	132.81	132.81	0.99	0.721	1.100	n.a.	n.a.	n.a.	0.00	0.00
7.550	95.360	1.172	906.0	906.0	137.090	1.235	1.87		Unsaturated	12.6			90.13	1.42	127.81	144.89	0.99	0.720	1.100	n.a.	n.a.	n.a.	0.00	0.00
7.710	87.400	1.087	925.2	925.2	124.268	1.250	1.90		Unsaturated	15.4			82.61	1.41	116.58	142.17	0.99	0.720	1.100	n.a.	n.a.	n.a.	0.00	0.00
7.870	71.920	1.359	944.4	944.4	101.084	1.902	2.10		Unsaturated	30.7			67.98	1.39	94.18	149.47	0.99	0.720	1.100	n.a.	n.a.	n.a.	0.00	0.00
8.040	57.110	1.086	964.8	964.8	79.265	1.917	2.17		Unsaturated	36.9			53.98	1.40	75.76	133.52	0.99	0.719	1.100	n.a.	n.a.	n.a.	0.00	0.00
8.200	42.860	1.242	984.0	984.0	58.724	2.931	2.40		Unsaturated	54.7			40.51	1.42	57.43	120.50	0.99	0.719	1.096	n.a.	n.a.	n.a.	0.00	0.00
8.370	40.770	0.975	1004.4	1004.4	55.243	2.421	2.36		Unsaturated	51.6			38.53	1.41	54.51	115.61	0.99	0.719	1.090	n.a.	n.a.	n.a.	0.00	0.00
8.530	42.020	2.742	1023.6	1023.6	65.226	6.605	2.63		Unsaturated	73.2			39.72	1.39	55.15	122.47	0.99	0.718	1.092	n.a.	n.a.	n.a.	0.00	0.00
8.690	43.190	2.451	1042.8	1042.8	66.182	5.743	2.58		Unsaturated	69.1			40.82	1.38	56.17	122.96	0.99	0.718	1.090	n.a.	n.a.	n.a.	0.00	0.00
8.860	98.690	3.014	1063.2	1063.2	130.886	3.070	2.18		Unsaturated	37.3			93.28	1.27	118.52	186.53	0.99	0.718	1.100	n.a.	n.a.	n.a.	0.00	0.00
9.020	134.730	2.643	1082.4	1082.4	177.335	1.969	1.95		Unsaturated	18.6			127.34	1.25	158.88	199.60	0.99	0.718	1.100	n.a.	n.a.	n.a.	0.00	0.00
9.190	152.260	2.633	1102.8	1102.8	198.625	1.736	1.87		Unsaturated	12.7			143.91	1.24	178.53	199.06	0.99	0.717	1.100	n.a.	n.a.	n.a.	0.00	0.00
9.350	145.690	3.178	1122.0	1122.0	188.378	2.190	1.97		Unsaturated	20.2			137.70	1.22	167.70	214.56	0.98	0.717	1.100	n.a.	n.a.	n.a.	0.00	0.00
9.510	239.550	2.965	1141.2	1141.2	307.576	1.240	1.64		Unsaturated	0.0			226.42	1.18	266.47	266.47	0.98	0.717	1.100	n.a.	n.a.	n.a.	0.00	0.00
9.680	251.270	4.520	1161.6	1161.6	319.801	1.803	1.76		Unsaturated	4.1			237.50	1.17	278.21	278.25	0.98	0.716	1.100	n.a.	n.a.	n.a.	0.00	0.00
9.840	288.560	3.567	1180.8	1180.8	364.360	1.239	1.60		Unsaturated	0.0			272.74	1.17	318.12	318.12	0.98	0.716	1.100	n.a.	n.a.	n.a.	0.00	0.00
10.010	279.280	5.101	1201.2	1201.2	349.598	1.830	1.75		Unsaturated	2.9			263.97	1.16	306.50	306.50	0.98	0.716	1.100	n.a.	n.a.	n.a.	0.00	0.00
10.170	220.880	6.113	1220.4	1220.4	274.142	2.775	1.96		Unsaturated	19.6			208.77	1.16	241.39	296.00	0.98	0.715	1.100	n.a.	n.a.	n.a.	0.00	0.00
10.330	251.930	4.187	1239.6	1239.6	310.343	1.666	1.74		Unsaturated	2.4			238.12	1.15	274.20	274.20	0.98	0.715	1.100	n.a.	n.a.	n.a.	0.00	0.00
10.500	226.150	3.934	1260.0	1260.0	276.231	1.744	1.79		Unsaturated	6.0			213.75	1.15	246.09	247.00	0.98	0.715	1.100	n.a.	n.a.	n.a.	0.00	0.00
10.660	169.960	3.050	1279.2	1279.2	205.832	1.801	1.87		Unsaturated	13.0			160.64	1.17	188.33	210.42	0.98	0.714	1.100	n.a.	n.a.	n.a.	0.00	0.00
10.830	109.660	3.059	1299.6	1299.6	131.472	2.806	2.15		Unsaturated	34.7			103.65	1.18	122.61	188.88	0.98	0.714	1.100	n.a.	n.a.	n.a.	0.00	0.00
10.990	94.980	1.604	1318.8	1318.8	112.925	1.700	2.03		Unsaturated	25.2			89.77	1.20	108.01	157.49	0.98	0.714	1.081	n.a.	n.a.	n.a.	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No. 5

PGA (A_{max}) 1.12

Total Settlement: 0.00 (Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_s for Sand	$CRR_{M=7.5, \sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
11.150	74.330	0.919	1338.0	1338.0	87.555	1.248	2.02		Unsaturated	24.3			70.26	1.22	85.88	129.86	0.98	0.713	1.062	n.a.	n.a.	n.a.	0.00	0.00
11.320	72.700	1.198	1358.4	1358.4	84.960	1.663	2.11		Unsaturated	31.8			68.71	1.21	82.96	137.19	0.98	0.713	1.064	n.a.	n.a.	n.a.	0.00	0.00
11.480	77.890	2.755	1377.6	1377.6	90.435	3.569	2.33		Unsaturated	49.5			73.62	1.18	87.17	156.00	0.98	0.713	1.072	n.a.	n.a.	n.a.	0.00	0.00
11.650	160.040	4.169	1398.0	1398.0	185.287	2.617	2.03		Unsaturated	25.5			151.27	1.13	170.56	231.68	0.98	0.712	1.100	n.a.	n.a.	n.a.	0.00	0.00
11.810	244.090	2.988	1417.2	1417.2	281.089	1.227	1.66		Unsaturated	0.0			230.71	1.11	256.44	256.44	0.98	0.712	1.100	n.a.	n.a.	n.a.	0.00	0.00
11.980	291.980	3.375	1437.6	1437.6	333.992	1.159	1.60		Unsaturated	0.0			275.97	1.11	305.60	305.60	0.98	0.712	1.100	n.a.	n.a.	n.a.	0.00	0.00
12.140	432.990	3.520	1456.8	1456.8	492.401	0.814	1.37		Unsaturated	0.0			409.25	1.10	451.61	451.61	0.98	0.711	1.100	n.a.	n.a.	n.a.	0.00	0.00
12.300	363.880	3.456	1476.0	1476.0	410.966	0.952	1.47		Unsaturated	0.0			343.93	1.10	378.22	378.22	0.98	0.711	1.100	n.a.	n.a.	n.a.	0.00	0.00
12.470	380.180	4.082	1496.4	1496.4	426.464	1.076	1.51		Unsaturated	0.0			359.34	1.10	393.73	393.73	0.98	0.710	1.100	n.a.	n.a.	n.a.	0.00	0.00
12.630	386.200	5.507	1515.6	1515.6	430.466	1.429	1.61		Unsaturated	0.0			365.03	1.09	398.62	398.62	0.98	0.710	1.100	n.a.	n.a.	n.a.	0.00	0.00
12.800	446.430	4.626	1536.0	1536.0	494.404	1.038	1.46		Unsaturated	0.0			421.96	1.09	459.17	459.17	0.97	0.710	1.096	n.a.	n.a.	n.a.	0.00	0.00
12.960	344.440	3.327	1555.2	1555.2	378.888	0.968	1.50		Unsaturated	0.0			325.56	1.08	353.11	353.11	0.97	0.709	1.092	n.a.	n.a.	n.a.	0.00	0.00
13.120	310.780	3.016	1574.4	1574.4	339.677	0.973	1.53		Unsaturated	0.0			293.74	1.08	317.57	317.57	0.97	0.709	1.089	n.a.	n.a.	n.a.	0.00	0.00
13.290	304.670	2.784	1594.8	1594.8	330.834	0.916	1.52		Unsaturated	0.0			287.97	1.08	310.27	310.27	0.97	0.709	1.085	n.a.	n.a.	n.a.	0.00	0.00
13.450	280.950	2.744	1614.0	1614.0	303.180	0.979	1.56		Unsaturated	0.0			265.55	1.07	285.21	285.21	0.97	0.708	1.081	n.a.	n.a.	n.a.	0.00	0.00
13.620	327.120	2.946	1634.4	1634.4	350.925	0.903	1.50		Unsaturated	0.0			309.19	1.07	330.99	330.99	0.97	0.708	1.077	n.a.	n.a.	n.a.	0.00	0.00
13.780	320.890	2.046	1653.6	1653.6	342.210	0.639	1.39		Unsaturated	0.0			303.30	1.07	323.68	323.68	0.97	0.708	1.074	n.a.	n.a.	n.a.	0.00	0.00
13.940	276.590	2.876	1672.8	1672.8	293.137	1.043	1.59		Unsaturated	0.0			261.43	1.06	278.15	278.15	0.97	0.707	1.071	n.a.	n.a.	n.a.	0.00	0.00
14.110	266.270	3.828	1693.2	1693.2	280.451	1.442	1.72		Unsaturated	0.3			251.67	1.06	266.92	266.92	0.97	0.707	1.067	n.a.	n.a.	n.a.	0.00	0.00
14.270	273.740	4.193	1712.4	1712.4	286.713	1.536	1.73		Unsaturated	1.6			258.73	1.06	273.59	273.59	0.97	0.707	1.063	n.a.	n.a.	n.a.	0.00	0.00
14.440	231.810	4.333	1732.8	1732.8	241.215	1.876	1.85		Unsaturated	10.8			219.10	1.06	231.37	246.08	0.97	0.706	1.060	n.a.	n.a.	n.a.	0.00	0.00
14.600	249.900	2.260	1752.0	1752.0	258.670	0.907	1.58		Unsaturated	0.0			236.20	1.05	248.55	248.55	0.97	0.706	1.057	n.a.	n.a.	n.a.	0.00	0.00
14.760	194.960	2.845	1771.2	1771.2	200.496	1.466	1.81		Unsaturated	8.0			184.27	1.06	195.41	199.59	0.97	0.705	1.047	n.a.	n.a.	n.a.	0.00	0.00
14.930	241.590	2.764	1791.6	1791.6	247.239	1.148	1.67		Unsaturated	0.0			228.35	1.05	239.26	239.26	0.97	0.705	1.050	n.a.	n.a.	n.a.	0.00	0.00
15.090	224.420	2.422	1810.8	1810.8	228.372	1.084	1.68		Sand	0.0			212.12	1.05	222.30	222.30	0.97	0.707	1.047	8.545	19.677	27.84	0.00	0.00
15.260	229.830	2.351	1831.2	1831.2	232.583	1.027	1.65		Sand	0.0			217.23	1.04	226.71	226.71	0.97	0.711	1.043	12.310	28.258	39.77	0.00	0.00
15.420	211.620	2.455	1850.4	1850.4	212.958	1.165	1.72		Sand	0.6			200.02	1.04	208.74	208.74	0.97	0.714	1.039	3.207	7.332	10.27	0.00	0.00
15.580	220.650	2.180	1869.6	1869.6	220.932	0.992	1.66		Sand	0.0			208.55	1.04	216.66	216.66	0.97	0.717	1.037	5.545	12.652	17.64	0.00	0.00
15.750	228.080	2.178	1890.0	1890.0	227.157	0.959	1.64		Sand	0.0			215.58	1.03	223.01	223.01	0.97	0.721	1.034	9.048	20.580	28.55	0.00	0.00
15.910	189.420	1.565	1909.2	1909.2	187.533	0.831	1.65		Sand	0.0			179.04	1.04	185.58	185.58	0.97	0.724	1.023	0.918	2.053	2.84	0.00	0.00
16.080	177.720	4.104	1929.6	1929.6	174.949	2.322	2.01		Sand	23.4			167.98	1.03	172.57	229.00	0.96	0.728	1.028	15.018	33.953	46.66	0.00	0.00
16.240	210.080	4.343	1948.8	1948.8	205.946	2.077	1.92		Sand	16.9			198.56	1.02	203.14	242.66	0.96	0.731	1.025	56.909	128.292	175.52	0.00	0.00

APPENDIX F

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Phase I Environmental Site Assessment

REPORT DATE: June 27, 2024

PROPERTY INFORMATION:
Oka Road
Los Gatos, Santa Clara County, California 95032

PROJECT INFORMATION:
AEI Project No. 494888
Site Assessment Date: June 20, 2024

PREPARED FOR:
UC OKA ROAD LLC
99 Almaden Boulevard Suite 500
San Jose, California 95113

PREPARED BY:
AEI Consultants - Corporate Headquarters
2500 Camino Diablo
Walnut Creek, California 94597

1.800.801.3224
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June 27, 2024

Erik Hayden
UC OKA ROAD LLC
99 Almaden Boulevard Suite 500
San Jose, California 95113

Subject: **Phase I Environmental Site Assessment**
Oka Road
Los Gatos, California 95032
AEI Project No. 494888

Dear Erik Hayden:

AEI Consultants is pleased to provide the *Phase I Environmental Site Assessment* of the above referenced property. This assessment was authorized and performed in accordance with the scope of services engaged.

We appreciate the opportunity to provide services to you. If you have any questions concerning this report, or if we can assist you in any other matter, please contact me at (925) 746-6000 or pmcintyre@aeiconsultants.com.

Sincerely,



Peter McIntyre, PG
Executive Vice President
AEI Consultants

PROJECT SUMMARY

Oka Road, Los Gatos, Santa Clara County, California 95032
AEI Project No. 494888

Report Section		REC	CREC	HREC	OEC	Recommended Action
1.0	Introduction					None
2.0	Site and Vicinity Description					None
3.0	Historical Records Review				✔	Phase II Subsurface Investigation
4.0	Regulatory Agency Records Review					None
5.0	Regulatory Database Records Review					None
6.0	Interviews and User Provided Information					None
7.0	Site Reconnaissance					None
8.1	Asbestos-Containing Building Materials					None
8.2	Lead-Based Paint					None
8.3	Naturally-Occurring Radon					None
8.4	Suspect Mold or Microbial Growth Conditions					None

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REPORT VIABILITY

Site Visit	June 20, 2024
Regulatory Database	June 12, 2024
Interview(s)	Property Owner: N/A Key Site Manager: June 12, 2024
EP Declaration	June 27, 2024
Environmental Lien Search (if conducted by AEI)	N/A
Report Viability per ASTM E1527-21	December 9, 2024

The dates listed are required for Users who are using the report in connection with CERCLA liability protections. The User may have their own criteria when the report is being used for business risk purposes, and not CERCLA liability protections.

EXECUTIVE SUMMARY

AEI Consultants (AEI) was retained by UC OKA ROAD LLC to conduct a Phase I ESA in conformance with AEI's contract and the scope and limitations of ASTM Standard Practice E1527-21 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), for the property located at Oka Road, Los Gatos, Santa Clara County, California (the "subject property"). Any exceptions to, or deletions from, this practice are described in Sections 1.4, 1.5, and 1.6 of this report.

Pertinent subject property information is noted below:

Property Information	
Site Address(es)	Oka Road, Los Gatos, Santa Clara County, California 95032
Property ID (APN or Block/Lot)	424-08-035 and 424-08-074
Location	Northwest side of Oka Road
Site and Building Information	
Approximate Site Acreage/Source	6.66/Assessor
Number of Buildings	N/A
Building Construction Date(s)/Source	N/A
Building Square Footage (SF)/Source	N/A
Number of Floors/Stories	N/A
Basement or Subgrade Area(s)	None identified
Number of Units	N/A
Additional Improvements	None
Property Type	Agricultural
On-site Occupant(s)	None identified
Current On-site Operations/Use	Agricultural orchard uses
Current Use of Hazardous Substances	Yes; refer to Section 7.1
Regulatory Information	
Regulatory Database Listing(s)	None identified

A chronological summary of historical subject property information is as follows:

Date Range	Subject Property Description and Occupancy (Historical Addresses)	Source(s)
1889-1899	Undeveloped land	Historical topographic maps
1900-1938	Unknown use/Data failure; refer to Section 1.6.1	N/A
1939-Present	Agricultural land in varying capacities	Aerial photographs, historical topographic maps, interviews, site observation

The immediately surrounding properties consist of the following:

Direction	Tenant/Use (Address)	Regulatory Database Listing(s)
Northeast	Bonnie View Mobile Home Park (14685 Oka Road)	Yes; refer to Section 5.1
Southeast	Oka Road followed by: Los Gatos Swim and Racquet Club (14700 Oka Road) Orchard land (14800 and 14840 Oka Road)	None identified
Southwest	Jewish Community Center/JCC (14855 Oka Road)	None identified

Direction	Tenant/Use (Address)	Regulatory Database Listing(s)
Northwest	Los Gatos Creek Trail (No addresses identified; APNs: 424-38-041 and 424-32-071)	None identified

Findings and Opinions

Significant Data Gap(s) is defined by the current ASTM Standard E1527 as a data gap that affects the ability of the environmental professional to identify a recognized environmental condition.

AEI did not identify significant data gaps which affected our ability to identify RECs.

Recognized Environmental Condition (REC) is defined by the current ASTM Standard E1527 as (1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment.

- AEI did not identify evidence of RECs during the course of this assessment.

Controlled Recognized Environmental Condition (CREC) is defined by the current ASTM Standard E1527 as a recognized environmental condition affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations).

- AEI did not identify evidence of CRECs during the course of this assessment.

Historical Recognized Environmental Condition (HREC) is defined by the current ASTM Standard E1527 as a previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (for example, activity and use limitations or other property use limitations).

- AEI did not identify evidence of HRECs during the course of this assessment.

Other Environmental Considerations include, but are not limited to, de minimis conditions and/or business environmental risks such as the presence of ACMs, LBP, radon, mold, and lead in drinking water, which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in the ASTM Standard. These may also affect the liabilities and financial obligations of the client, the health and safety of site occupants, and the value and marketability of the subject property.

- Based on a review of historical sources, the subject property was historically used for agricultural purposes. There is a potential that agricultural chemicals, such as pesticides and fertilizers, were used on site, and that the subject property has been impacted by the use of such agricultural chemicals. The routine application of pesticides and fertilizers is not considered a release subject to CERCLA response costs. No evidence of spilling, dumping, emitting, and/or mishandling of pesticides and/or fertilizers was identified, and thus the former agricultural uses do not represent a REC. AEI understands that the subject property is slated for residential development. Although the past agricultural uses do not represent a REC per the ASTM E1527 definition, the past agricultural uses, including apparent orchards, are considered to have a potential for residual impact. Given the planned development, soils sampling is appropriate.

Conclusions

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Standard Practice E1527-21, of Oka Road, Los Gatos, Santa Clara County, California, the *subject property*. Any exceptions to, or deletions from, this practice are described in Sections 1.4, 1.5, and 1.6 of this report.

This assessment has revealed no evidence of recognized environmental conditions, controlled recognized environmental conditions, or significant data gaps in connection with the subject property.

Recommendations

AEI recommends the following:

- Phase II Subsurface Investigation regarding past agricultural uses

1.0 INTRODUCTION

This report documents the methods and findings of the Phase I Environmental Site Assessment performed in conformance with AEI's contract and scope and limitations of ASTM Standard Practice E1527-21 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), for the property located at Oka Road, Los Gatos, Santa Clara County, California (Appendix A: Figures and Appendix B: Property Photographs).

1.1 Scope of Work

The purpose of the Phase I ESA is to assist the client in identifying potential RECs, in accordance with the most current ASTM E1527 Standard associated with the presence of any hazardous substances or petroleum products, their use, storage, and disposal at and in the vicinity of the subject property. Property assessment activities focused on: 1) a review of federal, state, tribal, and local databases that identify and describe underground fuel tank sites, leaking underground fuel tank sites, hazardous waste generation sites, and hazardous waste storage and disposal facility sites within the ASTM approximate minimum search distance; 2) a property and surrounding site reconnaissance, and interviews with the past and present owners and current occupants and operators to identify potential environmental contamination; and 3) a review of historical sources to help ascertain previous land use at the site and in the surrounding area.

1.2 Additional Services

Other Environmental Considerations such as ACMs, LBP, lead in drinking water, radon, mold, and wetlands can result in business environmental risks for property owners which may disrupt current or planned operations or cash flow and are generally beyond the scope of a Phase I assessment as defined by the current ASTM Standard E1527. Based upon the agreed-on scope of services this ESA did not include subsurface or other invasive assessments, business environmental risks, or other services not specifically identified and discussed herein.

1.3 Significant Assumptions

The following assumptions are made by AEI in this report. AEI relied on information derived from secondary sources including governmental agencies, the client, designated representatives of the client, property contact, property owner, property owner representatives, computer databases, and personal interviews. AEI has reviewed and evaluated the thoroughness and reliability of the information derived from secondary sources including government agencies, the client, designated representatives of the client, property contact, property owner, property owner representatives, computer databases, or personal interviews. It appears that all information obtained from outside sources and reviewed for this assessment is thorough and reliable. However, AEI cannot guarantee the thoroughness or reliability of this information.

Groundwater flow, unless otherwise specified by on-site well data or well data from the subject property or nearby sites, is inferred from contour information depicted on the USGS topographic maps. AEI assumes the property has been correctly and accurately identified by the client, designated representative of the client, property contact, property owner, and property owner's representatives.

1.4 LIMITATIONS

Property conditions, as well as local, state, tribal, and federal regulations can change significantly over time. Therefore, the recommendations and conclusions presented as a result of this assessment apply strictly to the environmental regulations and property conditions existing at the time the assessment was performed. Available information has been analyzed using currently accepted assessment techniques and it is believed that the inferences made are reasonably representative of the property. AEI makes no warranty, expressed or implied, except that the services have been performed in accordance with generally accepted environmental property assessment practices applicable at the time and location of the assessment.

Considerations identified by ASTM as beyond the scope of a Phase I ESA that may affect business environmental risk at a given property include the following: ACMs, radon, LBP, lead in drinking water, wetlands, regulatory compliance, cultural and historical resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, mold, and high voltage lines. These environmental issues or conditions may warrant assessment based on the type of the property transaction; however, they are considered non-scope issues under the current ASTM Standard E1527.

If requested by the client, these non-scope issues are discussed herein. Otherwise, the purpose of this assessment is solely to satisfy one of the requirements for qualification of the innocent landowner defense, contiguous property owner or bona fide prospective purchaser under CERCLA. The current ASTM Standard E1527 and the United States EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) constitute the "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined in:

1. 42 U.S.C. § 9601(35)(B), referenced in the current ASTM Standard E1527.
2. Sections 101(35)(B) (ii) and (iii) of CERCLA and referenced in the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312).
3. 42 U.S.C. § 9601(40) and 42 U.S.C. § 9607(q).

The Phase I Environmental Site Assessment is not, and should not be construed as, a warranty or guarantee about the presence or absence of environmental contaminants that may affect the property. Neither is the assessment intended to assure clear title to the property in question. The sole purpose of assessment into property title records is to ascertain a historical basis of prior land use. All findings, conclusions, and recommendations stated in this report are based upon facts, circumstances, and industry-accepted procedures for such services as they existed at the time this report was prepared (i.e., federal, state, and local laws, rules, regulations, market conditions, economic conditions, political climate, and other applicable matters). All findings, conclusions, and recommendations stated in this report are based on the data and information provided, current subject property use, and observations and conditions that existed on the date and time of the property reconnaissance.

Responses received from local, state, or federal agencies or other secondary sources of information after the issuance of this report may change certain facts, findings, conclusions, or circumstances to the report. A change in any fact, circumstance, or industry-accepted procedure upon which this report was based may adversely affect the findings, conclusions, and recommendations expressed in this report.

AEI's limited radon screening, if included, is intended to provide a preliminary screening to evaluate the potential presence of elevated radon concentrations at the site. The proposed scope is not intended to define the full extent of the presence of radon at the subject property. As such, the results should be used for lending purposes only. The recommendations and conclusions presented as a result of the limited preliminary radon screening apply strictly to the property conditions existing at the time the sampling was performed. The sample analytical results are only valid for the time, place, and condition of the site at the time of collection and AEI does not warrant that the results will be repeatable or are representative of past or future conditions.

1.5 Limiting Conditions/Deviations

The performance of this assessment was limited by the following:

- While additional assessments may have been conducted on the subject property, these documents must be provided for AEI's review in order for the information to be summarized/included in this report. Please refer to Section 6.3 for a summary of previous reports and other documentation provided to AEI during this assessment.
- The subject property owner was not interviewed during this assessment. Based on information obtained from other sources, including the key site manager, this limiting condition is not expected to alter the overall findings of this assessment.
- The Santa Clara County Fire Protection District was contacted for information on the subject property in order to identify historical tenants/use, property development, and/or hazardous substance/petroleum product handling. Due to the time frame of this assessment, records were not available for review. However, based on the quality of information obtained from other sources including historical sources and the key site manager, this limitation is not expected to significantly alter the findings of this assessment.

1.6 Data Failure and Data Gaps

According to the current ASTM Standard E1527, data gaps occur when the Environmental Professional is unable to obtain information required by the Standard, despite good faith efforts to gather such information. Pursuant to the current ASTM Standard E1527, only significant data gaps, defined as those that affect the ability of the Environmental Professional to identify RECs, need to be documented.

Data failure is one type of data gap. According to the current ASTM Standard E1527, data failure occurs when all of the standard historical sources that are reasonably ascertainable and likely to be useful have been reviewed and yet the objectives have not been met. Pursuant to the current ASTM Standard E1527, historical sources are required to document property use back to the property's first developed use or back to 1940, whichever is earlier, or periods of five years or greater.

1.6.1 Data Failure

The following data failure was identified during the course of this assessment:

Data Failure	As noted in Section 3.0, the earliest historical resource obtained during this assessment that clearly shows prior property use indicated that the subject property was developed agriculturally. The lack of historical sources for the subject property dating back to first developed use represents historical

	data source failure. However, as it is assumed that the subject property would have been previously used for agricultural purposes, if not undeveloped, this data failure is not expected to significantly alter the findings of this assessment.
Information/Sources Consulted	Aerial photographs, historical topographic maps

1.6.2 Significant Data Gaps

AEI did not identify significant data gaps which affected our ability to identify RECs.

1.7 Reliance

All reports, both verbal and written, are for the benefit of UC OKA ROAD LLC. This report has no other purpose and may not be relied upon by any other person or entity without the written consent of AEI. Either verbally or in writing, third parties may come into possession of this report or all or part of the information generated as a result of this work. In the absence of a written agreement with AEI granting such rights, no third parties shall have rights of recourse or recovery whatsoever under any course of action against AEI, its officers, employees, vendors, successors or assigns.

Reliance is provided in accordance with UC OKA ROAD LLC and AEI's contract and Terms and Conditions dated June 10, 2024. The limitation of liability defined in the contracted terms is the aggregate limit of AEI's liability to the client and all relying parties.

2.0 SITE AND VICINITY DESCRIPTION

2.1 Site Location and Description

Property Information	
Site Address(es)	Oka Road, Los Gatos, Santa Clara County, California 95032
Property ID (APN or Block/Lot)	424-08-035 and 424-08-074
Location	Northwest side of Oka Road
Site and Building Information	
Approximate Site Acreage/Source	6.66/Assessor
Number of Buildings	N/A
Building Construction Date(s)/Source	N/A
Building Square Footage (SF)/Source	N/A
Number of Floors/Stories	N/A
Basement or Subgrade Area(s)	None identified
Number of Units	N/A
Additional Improvements	None
Property Type	Agricultural
On-site Occupant(s)	None identified
Current On-site Operations/Use	Agricultural orchard uses
Current Use of Hazardous Substances	Yes; refer to Section 7.1
Regulatory Information	
Regulatory Database Listing(s)	None identified

2.2 On-Site Utilities

The subject property is currently agricultural land and lacks structures. Consequently, there are no on-site heating or cooling systems, or potable water or sewage disposal/treatment services.

2.3 Site and Vicinity Characteristics

The subject property is located in a mixed residential, agricultural, and commercial area of Los Gatos, California. The immediately surrounding properties consist of the following:

Direction	Tenant/Use (Address)	Regulatory Database Listing(s)
Northeast	Bonnie View Mobile Home Park (14685 Oka Road)	Yes; refer to Section 5.1
Southeast	Oka Road followed by: Los Gatos Swim and Racquet Club (14700 Oka Road) Orchard land (14800 and 14840 Oka Road)	None identified
Southwest	Jewish Community Center/JCC (14855 Oka Road)	None identified
Northwest	Los Gatos Creek Trail (No addresses identified; APNs: 424-38-041 and 424-32-071)	None identified

2.4 Physical Setting

Geologic Unit	Qg: Alluvial gravel, sand, silt, and clay; age Holocene Source: USGS and United States Department of the Interior
Soil Series	168: Elder fine sandy loam, parent material is alluvium derived from metamorphic and sedimentary rock and/or alluvium derived metavolcanics, and is considered somewhat excessively drained

	Source: USDA Soil Survey
Groundwater Flow Direction	North Source: Topographic map interpretation
Estimated Depth to Groundwater	Approximately 20 to 30 feet bgs Source: Remedial Action Completion Certificate for a nearby closed CPS-SLIC site at 980 University Avenue (approximately 1,695 feet southwest of the subject property), via GeoTracker
Surface waters on the subject property or adjoining sites	None
Additional Notes	None

Note: Groundwater flow direction can be influenced locally and regionally by the presence of local wetland features, surface topography, recharge and discharge areas, horizontal and vertical inconsistencies in the types and location of subsurface soils, and proximity to water pumping wells. Depth and gradient of the water table can change seasonally in response to variation in precipitation and recharge, and over time, in response to urban development such as storm water controls, impervious surfaces, pumping wells, cleanup activities, dewatering, seawater intrusion barrier projects near the coast, and other factors.

3.0 HISTORICAL RECORDS REVIEW

Reasonably ascertainable standard historical sources as outlined in the current ASTM Standard E1527 were used to determine previous uses and occupancies of the subject property that are likely to have led to RECs in connection with the subject property. A chronological summary of historical data found, including but not limited to aerial photographs, historical city directories, Sanborn fire insurance maps, historical topographic maps, and agency records, is as follows:

Date Range	Subject Property Description and Occupancy (Historical Addresses)	Source(s)
1889-1899	Undeveloped land	Historical topographic maps
1900-1938	Unknown use/Data failure; refer to Section 1.6.1	N/A
1939-Present	Agricultural land in varying capacities	Aerial photographs, historical topographic maps, interviews, site observation

Based on a review of historical sources, the subject property was historically used for agricultural purposes. There is a potential that agricultural chemicals, such as pesticides and fertilizers, were used on site, and that the subject property has been impacted by the use of such agricultural chemicals. The routine application of pesticides and fertilizers is not considered a release subject to CERCLA response costs. No evidence of spilling, dumping, emitting, and/or mishandling of pesticides and/or fertilizers was identified, and thus the former agricultural uses do not represent a REC. AEI understands that the subject property is slated for residential development. Although the past agricultural uses do not represent a REC per the ASTM E1527 definition, the past agricultural uses, including apparent orchards, are considered to have a potential for residual impact. Given the planned development, soils sampling is appropriate.

If available, copies of historical sources are provided in Appendix D.

3.1 AERIAL PHOTOGRAPHS

AEI reviewed aerial photographs of the subject property and surrounding area. A search was made of the EDR collection of aerial photographs. Aerial photographs were reviewed for the following years (1939-2020, non-inclusive):

Year(s)	Subject Property Description	Adjoining Site Descriptions
1939	Agricultural land	NORTHEAST: Agricultural land SOUTHEAST: Agricultural land SOUTHWEST: Agricultural land NORTHWEST: Stream and undeveloped land
1948, 1950	What appears to be cleared agricultural land	NORTHEAST: No significant changes SOUTHEAST: What appears to be cleared agricultural land SOUTHWEST: No significant changes other than there appears to be residential buildings now present NORTHWEST: No significant changes
1956	Agricultural land	NORTHEAST: No significant changes SOUTHEAST: Agricultural land SOUTHWEST: No significant changes other

Year(s)	Subject Property Description	Adjoining Site Descriptions
		than some of the agricultural land is no longer present NORTHWEST: No significant changes
1963	No significant changes	NORTHEAST: Current mobile home development SOUTHEAST: Dirt roadway followed by current tennis court development and parking lot, and agricultural land SOUTHWEST: What appears to be vacant land with one of the former residential buildings present NORTHWEST: No significant changes
1968, 1970*, 1974, 1982, 1993, 1998	No significant changes	NORTHEAST: No significant changes SOUTHEAST: No significant changes SOUTHWEST: Former school buildings NORTHWEST: Some agricultural land followed by a creek
2006, 2009, 2012, 2016, 2020	No significant changes	NORTHEAST: No significant changes SOUTHEAST: No significant changes SOUTHWEST: Current community center development NORTHWEST: No significant changes other than the agricultural land is now vacant land

Subject property:

- Agricultural land - refer to Section 3.0

Adjoining Sites:

- No potential environmental concerns identified

*Due to poor image quality and/or scale, detailed observation of site features was not possible.

3.2 Sanborn Fire Insurance Maps

Sanborn Fire Insurance maps were developed in the late 1800s and early 1900s for use as an assessment tool for fire insurance rates in urbanized areas. A search was made of the EDR collection of Sanborn Fire Insurance maps.

Sanborn map coverage was not available for the subject property.

3.3 City Directories

A search of historical city directories was conducted for the subject property utilizing EDR. Directories were reviewed in approximate five-year increments from 1962-2020, non-inclusive. Since the subject property has never been developed, no physical address has been provided to or identified by AEI during the course of this assessment. Based on the lack of physical address, no listings were identified for the subject property.

The table below summarizes the search of historical city directories conducted for the adjoining sites. Refer to the appendices for a complete list of historical adjoining occupants identified during the review of city directories obtained from EDR.

Adjoining Sites

Direction	Address(es)	Potential Listings of Concern
Northeast	14685 Oka Road	None identified
Southeast	14700, 14800, 14840 Oka Road	None identified
Southwest	14855 Oka Road	None identified
Northwest	No addresses identified	N/A

Subject property:

- No potential environmental concerns identified

Adjoining Sites:

- No potential environmental concerns identified

3.4 Historical Topographic Maps

AEI reviewed historical topographic maps utilizing EDR. Historical topographic maps were reviewed for the years 1889-2021, non-inclusive. No additional historical information was obtained from available topographic maps.

3.5 Chain of Title

Based on the quality of information obtained from other sources, a chain of title search was not performed as part of this assessment.

4.0 REGULATORY AGENCY RECORDS REVIEW

Local and state agencies, such as environmental health departments, fire prevention bureaus, and building and planning departments are contacted to identify any current or previous reports of hazardous substance use, storage, and/or unauthorized releases that may have impacted the subject property. In addition, information pertaining to AULs, defined as legal or physical restrictions, or limitations on the use of, or access to, a site or facility, is requested.

4.1 Local Environmental Health Department and/or State Environmental Agency

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
Santa Clara County Department of Environmental Health (SCCDEH)	June 12, 2024	Online	Angelica Bryan, Staff	No records on file

4.2 Fire Department

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
Santa Clara County Fire Protection District (SCCFPD)	June 12, 2024	Email	N/A	Response pending, refer to Section 1.5

4.3 Building Department

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
Los Gatos Building Department (LGBD)	June 12, 2024	Online	N/A	Records discussed below

Records Summary

Year(s)	Owner/Applicant	Description of Permit and Building Use
2024	Mallory Menne (Applicant)	Planning permit application for 126-unit townhome development with building area expected to be approximately 302,940 square feet.

Evidence indicating current or prior use or storage of hazardous substances was not on file for the subject property with the LGBD.

4.4 Planning Department

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
Los Gatos Planning Department (LGPD)	June 12, 2024	Online	N/A	No evidence indicating the existence of AULs on file for the subject property

4.5 Assessor's Office

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
Santa Clara County Assessor's Office	June 12, 2024	Online	N/A	Information obtained is discussed below

Records Summary

APN	424-08-035 and 424-08-074
Acreage	6.66 acres
Construction Date	Not provided
Building Square Footage	Not provided
Current Owner	Not provided
Additional Information	None

4.6 Other Agencies Searched

Agency	Date Contacted	Method of Contact	Name & Title of Contact	Agency Response
CA State Water Resources Control Board (SWRCB) GeoTracker	June 12, 2024	Online	N/A	No records on file
SWRCB GeoTracker Historical Hazardous Substance Storage Information	June 12, 2024	Online	N/A	No records on file
CA Department of Toxic Substances Control (DTSC) Hazardous Waste Tracking System (HWTS)	June 12, 2024	Online	N/A	No records on file
CA DTSC EnviroStor	June 12, 2024	Online	N/A	No records on file
CalEPA Regulated Site Portal	June 12, 2024	Online	N/A	No records on file
Bay Area Air Quality Management District (BAAQMD)	June 12, 2024	Online	Magnolia Vinluan-Chan for Rochele Henderson, Public Records Coordinator	No records on file
GeoTracker PFAS Map	June 12, 2024	Online	N/A	No records on file

No other agencies were contacted during the course of this assessment.

4.7 Oil and Gas Wells

Agency	Date Referenced	Resource	Oil or gas wells located within 500 feet of the subject property
California Geologic Energy Management Division (CalGEM)	June 12, 2024	CalGEM Map	No

4.8 Oil and Gas Pipelines

Agency	Date Referenced	Resource	Pipelines located within 500 feet of the subject property
National Pipeline Mapping System (NPMS)	June 12, 2024	NPMS Public Map Viewer	No

5.0 REGULATORY DATABASE RECORDS REVIEW

AEI contracted EDR to conduct a search of publicly available information from federal, state, tribal, and local databases containing known and suspected sites of environmental contamination and sites of potential environmental significance. Data gathered during the current regulatory database search is compiled by EDR into one regulatory database report. Location information for listed sites is designated using geocoded information provided by federal, state, or local agencies and commonly used mapping databases with the exception of "Orphan" sites. Due to poor or inadequate address information, Orphan sites are identified but not geocoded/mapped by EDR, rather, information is provided based upon vicinity zip codes, city name, and state. The minimum search distance from the federal and state environmental records database listings specified in the current ASTM Standard E1527 is included in Section 5.1. A copy of the regulatory database report, which includes detailed descriptions of the databases noted below as well as the total number of sites identified, is included in Appendix C of this report.

In determining if a listed site is a potential environmental concern to the subject property, AEI generally applies the following criteria to classify the site as lower potential environmental concern: 1) the site only holds an operating permit (which does not imply a release), 2) the site's distance from, and/or topographic position relative to, the subject property, and/or 3) the site has recently been granted "No Further Action" by the appropriate regulatory agency.

Regulatory database listings associated with the subject property, adjoining site(s) and/or nearby sites of concern that were determined to warrant additional discussion, if any, are identified and further discussed in Section 5.1.

5.1 RECORDS SUMMARY

Database	Search Distance (Miles)	Subject Property	Adjoining Site(s)	Other Nearby Sites of Concern
Federal NPL (Superfund) sites	1.0			
Federal Delisted NPL sites	0.5			
Federal CERCLA removals/orders sites	0.5			
Federal CERCLA sites with NFRAP	0.5			
Federal RCRA facilities undergoing Corrective Action	1.0			
Federal RCRA TSD facilities	0.5			
Federal RCRA generators (LQG, SQG, VSQG)	SP/ADJ			
Federal RCRA NonGen/NLR sites	SP/ADJ		✔	
Federal IC/EC sites	SP			
Federal ERNS sites	SP			
State/tribal "Superfund" equivalent sites	1.0			
State/tribal hazardous waste facilities	0.5			
State/tribal landfill and solid waste disposal facilities	0.5			
State/tribal leaking storage tanks	0.5			
State/tribal registered storage tanks	SP/ADJ			
State/tribal voluntary cleanup sites	0.5			

Database	Search Distance (Miles)	Subject Property	Adjoining Site(s)	Other Nearby Sites of Concern
State/tribal IC/EC registries	SP			
State/tribal brownfield sites	0.5			
Orphans	N/A			
Additional Environmental Record lists	SP/ADJ		✔	

Facility Name	Chiapparelli Construction, Inc.
Address	14685 Oka Road, #2
Distance & Direction	Adjoining to the northeast
Hydrologic Position	Down-gradient
Databases Listed	E MANIFEST, RCRA NONGEN/NLR
Comments	This site is identified in the regulatory database as having generated asbestos containing hazardous waste in 2018. According to the E MANIFEST listing, the hazardous waste was transported to the Altamont Landfill & Resource Recovery Facility. Details provided for the RCRA Non Generator (NONGEN)/No Longer Regulated (NLR) listing identified the site as "not a generator, verified" in 2018. The NAICS Description provided for the business is "All Other Waste Management Services". No violations were identified in connection with the RCRA listing. Based on the nature of the listings and the lack of a documented release, the review of regulatory agency files for this site was not deemed necessary, and these listings do not represent a REC.

5.2 Vapor Migration

A vapor encroachment condition (VEC) is the presence or likely presence of Chemical(s) of Concern (COC) vapors in the vadose zone of the subject property caused by the release of vapors from contaminated soil and/or groundwater either on or near the subject property.

AEI conducted a limited screening for potential VECs that may affect the subject property. The VEC screening focused on the current and historical usage of the subject property and also utilized the aforementioned regulatory agency database report provided by EDR to evaluate identified Chemicals of Concern (COCs), including petroleum hydrocarbons.

Determination of AOC

To identify the area of concern (AOC) for contaminated sites with non-petroleum hydrocarbon COCs, AEI utilized the approximate minimum search distance defined by the current ASTM E2600 of 1,760 feet (1/3 mile) from the subject property boundary for COC-contaminated sites. For sites contaminated with petroleum hydrocarbon COCs, AEI utilized the AOC approximate minimum search distance of 528 feet (1/10 mile). The AOC was adjusted accordingly based on review of physical setting characteristics, known release information, property and land features, groundwater flow direction, and soil type, et al.

ASTM's Vapor Encroachment guidance indicates that when groundwater flow direction can be estimated or determined, the cross-gradient or downgradient radius distances can be significantly reduced. AEI calculated the reduced AOC distances when considering groundwater flow direction by utilizing the following default distances, which were determined using the Buonicore Methodology:

Non-petroleum hydrocarbon COCs:

- 1,760 feet in the upgradient direction
- 365 feet in the cross-gradient direction
- 100 feet in the downgradient direction

Petroleum hydrocarbon COCs if Light, Non-Aqueous Phase Liquid, (LNAPL, i.e. floating product) is suspected:

- 528 feet in the upgradient direction
- 165 feet in the cross-gradient direction
- 100 feet in the downgradient direction

Petroleum hydrocarbon COCs if LNAPL is *not* suspected:

- 528 feet in the upgradient direction
- 95 feet in the cross-gradient direction
- 30 feet in the downgradient position

Additional adjustment of the AOC may be conducted based on AEI's professional judgment.

Conclusions

Source	VEC Identified	VEC Not Identified	Comments
Subject Property		✔	
Adjoining and/or Nearby Site(s)		✔	

5.3 Emerging Contaminants

As defined in Section 3.2.36 of the current ASTM Standard E1527, hazardous substance means "those substances defined as a hazardous substance pursuant to CERCLA 42 USC § 9601(14), as interpreted by EPA regulations and the courts." There are some substances that non-environmental professionals and others may assume to be hazardous substances that are not defined (or not yet defined) as hazardous substances under CERCLA, through interpretation by EPA regulations and the courts. These substances may include: (i) some substances that occur naturally or through biological digestion (for example, methane), and (ii) substances about which human understanding is evolving (for example, per- and polyfluoroalkyl substances, also known as "PFAS"). These and any other "emerging contaminants," where they are not identified as a hazardous substance by CERCLA, as interpreted by EPA regulations and the courts, are not included in the scope of this standard. Some of these substances may be considered a "hazardous substance" (or equivalent) under applicable state laws. In those instances, where a Phase I ESA is performed to satisfy both federal and state requirements, or

as directed by the user of the report, it is permissible to include analysis and/or discussion of these substances, in the same manner as any other Non-Scope Consideration. If and when such emerging contaminants are defined to be a hazardous substance under CERCLA, as interpreted by EPA regulations and the courts, such substances shall be evaluated within the scope of this standard.

It should be noted that AEI's limited PFAS screening is based solely on review of the resources cited. Identification, or lack thereof, is not a warranty that PFAS contamination is present or absent at a site. Additionally, it should be noted that given the evolving nature of science and regulatory oversight of PFAS, additional sources of PFAS contamination may exist at the subject property, adjoining sites and/or other nearby sites not identified by the limited screening tools reviewed.

5.3.1 PFAS-Related Regulatory Database Listings

As an initial screening tool for potential PFAS contamination, AEI reviewed PFAS-related database listings from EDR.

Source	Subject Property Identified	Adjoining Site(s) Identified	Other Nearby Site(s) of Concern Identified	Comments
EDR PFAS Regulatory Database Listing(s)				No listings warranting discussion were identified

6.0 INTERVIEWS AND USER PROVIDED INFORMATION

6.1 INTERVIEWS

Pursuant to the current ASTM Standard E1527, the following interviews were performed during this assessment in order to obtain information indicating RECs in connection with the subject property.

6.1.1 OWNER AND KEY SITE MANAGER

Relation to Property	Name	Date Interviewed	Method of Contact	Year First Associated w/ Property	Notes
Owner/Owner Representative	ETPH LP	N/A	N/A	1991	Not interviewed; refer to Section 1.5
Key Site Manager	Mallory Menne, Prospective Buyer	June 12, 2024	Email	2023	Interviewed; see Interview Summary table below

INTERVIEW SUMMARY

Question	Owner (Representative) Response/ Comment	Key Site Manager Response/ Comment
Do you have any knowledge of USTs, clarifiers or oil/water separators, sumps, or other subsurface features?	N/A	No
Do you have any knowledge of previous environmental investigations conducted on site?	N/A	No
Do you have any knowledge of current or past industrial operations and/or other operations which would involve the use of hazardous substances and/or petroleum products?	N/A	No
Are you aware of any known plans for site redevelopment or change in site use?	N/A	Yes, plans to develop subject property with 126 townhomes
Are you aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, at, or from the subject property?	N/A	No
Are you aware of any pending, threatened or past administrative proceedings relevant to hazardous substances or petroleum products in, on, at, or from the subject property?	N/A	No
Are you aware of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	N/A	No
Are you aware of any incidents of flooding, leaks, or other water intrusion, and/or complaints related to indoor air quality?	N/A	No

6.1.2 Past Owners, Operators, and Occupants

AEI did not attempt to interview past owners, operators, and occupants of the subject property because information from these sources would likely be duplicative of information already obtained from other sources.

6.1.3 Interview with Others

Information obtained during interviews with local government officials is incorporated into the appropriate segments of this report.

6.2 User Provided Information

User provided information is intended to help identify the possibility of RECs in connection with the subject property. According to the current ASTM Standard E1527 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), certain items should be researched by the prospective landowner or grantee, and the results of such inquiries may be provided to the Environmental Professional. The responsibility for qualifying for LLPs by conducting the inquiries ultimately rests with the User, and providing the information to the Environmental Professional would be prudent if such information is available.

The User Questionnaire was completed by Ms. Mallory Menne, prospective buyer. The following table represents information contained therein.

Question	Response/ Comment
1. Environmental liens that are filed or recorded against the property (40 CFR 312.25) Did a search of recorded land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the property under federal, tribal, state or local law?	No
2. Activity and use limitations that are in place on the property or that have been filed or recorded against the property (40 CFR 312.26(a)(1)(v) and vi)). Did a search of recorded land title records (or judicial records where appropriate) 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 under federal, tribal, state or local law?	No
3. Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28). 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?	No
4. Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29). Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?	No
5. Commonly known or reasonably ascertainable information about the property (40 CFR 312.30).	No

Question	Response/ Comment
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? For example: (a) Do you know the past uses of the property? (b) Do you know of specific chemicals that are present or once were present at the property? (c) Do you know of spills or other chemical releases that have taken place at the property? (d) Do you know of any environmental cleanups that have taken place at the property?	
6. The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31). Based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?	No

6.3 Previous Reports and Other Provided Documentation

No prior reports or other relevant documentation in association with the subject property was made available to AEI during the course of this assessment.

6.4 Environmental Lien and AUL Search

In accordance with our approved scope of services, an environmental lien search was not performed as part of this assessment.

7.0 SITE RECONNAISSANCE

Site Reconnaissance Date	June 20, 2024
AEI Site Assessor(s)	Paige Callahan
Property Escort(s)/ Relationship(s) to Property	Self
Units/Areas Observed	All portions of the subject property were accessed
Area(s) not accessed and reason(s)	None
Other Physical Constraints	None
General Observations	The property includes approximately 6.66 acres of agricultural land with no structures or buildings present.

Reconnaissance Findings Summary

Feature	Observed on Subject Property (see Section 7.1)	Observed on Adjoining Property (see Section 7.2)
Regulated Hazardous Substances/Wastes and/or Petroleum Products in Connection with Property Use (including drums, totes, and intermediate bulk containers)		
Aboveground/Underground Hazardous Substance or Petroleum Product Storage Tanks (ASTs/USTs)		
Hazardous Substance and Petroleum Product Containers Not in Connection with Property Use		
Unidentified Substance Containers		
Electrical or Mechanical Equipment Likely to Contain Fluids	✔	✔
Interior Stains or Corrosion		
Strong, Pungent, or Noxious Odors		
Pools of Liquid		
Drains, Sumps, and Clarifiers		✔
Pits, Ponds, and Lagoons		
Stained Soil or Pavement		
Stressed Vegetation		
Solid Waste Disposal or Evidence of Fill Materials		
Waste Water Discharges		
Wells		
Septic Systems or Cesspools		
Biomedical Wastes		
Other		

7.1 SUBJECT PROPERTY RECONNAISSANCE FINDINGS

During the site reconnaissance, AEI observed the items listed in the above Reconnaissance Findings Summary table, which are further discussed below.

7.1.1 ELECTRICAL OR MECHANICAL EQUIPMENT LIKELY TO CONTAIN FLUIDS

Toxic PCBs were commonly used historically in electrical equipment such as transformers, fluorescent lamp ballasts, and capacitors. According to United States EPA regulation 40 CFR Part 761, there are three categories for classifying such equipment: <50 ppm of PCBs is considered "Non-PCB"; between 50 and 500 ppm is considered "PCB-Contaminated"; and >500

ppm is considered "PCB-Containing." Pursuant to 15 U.S.C. 2605(e)(2)(A), the manufacture, process, or distribution in commerce or use of any polychlorinated biphenyl in any manner other than in a totally enclosed manner was prohibited after January 1, 1977.

Transformers

Type	Quantity	Owner	Presumed Date of Installation	Spills or Stains Observed (Yes/ No)	Non-PCB Label (Yes/ No)
Pole-Mounted	Two	PG&E	Unknown	No	No

The management of potential PCB-containing transformers is the responsibility of the local utility or the transformer owner. Actual material samples need to be collected to determine if transformers are PCB-containing.

Transformers installed prior to 1977 may be PCB containing while transformers installed after 1977 are unlikely to be PCB containing. Federal Regulations (40 CFR 761 Subpart G) require any release of material containing >50 ppm PCB and occurring after May 4, 1987, be cleaned up by the transformer owner following the United States EPA's PCB spill cleanup policy.

AEI did not observe evidence of spills, staining, or leaks on or around the transformers. Based on the good condition of the equipment, the transformers are not considered evidence of a REC.

7.2 Adjoining Property Reconnaissance Findings

During the site reconnaissance, AEI observed the items listed in the above Reconnaissance Findings Summary table, which are further discussed below.

7.2.1 Electrical or Mechanical Equipment Likely to Contain Fluids

Transformer

One pole-mounted transformer was observed on an adjoining site during the site reconnaissance. No spills, staining, or leaks were observed on or around the transformer. Based on the good condition of the equipment, the transformer is not a REC.

7.2.2 Drains, Sumps, and Clarifiers

Several storm drains were observed in the parking areas of the adjoining properties and along the adjoining roadways. AEI did not observe evidence of hazardous substances or petroleum products in the vicinity of the drains. Based on the use of the drains solely for storm water runoff, the presence of the drains is not considered evidence of a REC.

8.0 NON-ASTM SERVICES

8.1 Asbestos-Containing Building Materials

The subject property is currently agricultural land and lacks structures. Consequently, no building components containing suspect asbestos containing materials were identified during the site inspection.

8.2 Lead-Based Paint

The subject property is currently agricultural land and lacks structures. Consequently, AEI did not observe building components likely to contain suspect LBP during the site reconnaissance.

8.3 Naturally-Occurring Radon

Radon is a naturally-occurring, odorless, and invisible radioactive gas. According to the United States EPA, radon is the second leading cause of lung cancer. Natural radon levels vary and are closely related to geologic formations, soils, and foundation construction. Radon may enter buildings through basement sumps or other openings such as cracks and other holes in foundations.

US EPA Map

In 1993 the United States EPA prepared a map to assist National, State, and local organizations to target their resources and to implement radon-resistant building codes. The map identifies counties of the US with the greatest potential for elevated indoor radon levels based on indoor radon measurement data, geology, soil parameters, and foundation types. The map divides the country into three radon zones based on potential radon accumulation, but is not to be considered predictive of radon accumulation.

The 1993 EPA map identifies the following three radon zones:

- Zone 1 - Highest potential for radon accumulation; average indoor radon levels may be greater than 4 pCi/L
- Zone 2 - Moderate potential for radon accumulation; average indoor radon levels may be between 2 and 4 pCi/L
- Zone 3 - Low potential for radon accumulation; average indoor radon levels may be less than 2 pCi/L

It is important to note that elevated levels of radon can be found in all three zones, and the EPA and other agencies recommend site-specific testing to determine radon levels at a specific property. Therefore, while the map does give an indication of the propensity of radon gas accumulation in structures in a county, elevated radon levels may be found in all three radon zones.

It should also be noted that EPA's 1993 Map of Radon Zones, while useful, was based on limited data collected prior to 1993 and therefore may be supplemented with available state-developed or other data to further understand the radon potential for a specific area.

According to the US EPA, the radon zone level for the County is Zone 2, which has a moderate potential for radon accumulation.

Radon sampling would be necessary to determine site-specific radon conditions. Radon sampling was not requested as part of this assessment. According to additional data obtained from California Department of Health Services Radon Database, of 54 tests conducted in the subject property zip code (95032) in 2016, three of the tests were above 4.0 pCi/L. While a relatively small percentage of the test results exceeded the EPA threshold, the majority of the locations sampled were below 4.0 pCi/L.

8.4 Suspect Mold or Microbial Growth Conditions

The subject property is currently agricultural land and lacks structures. Consequently, suspect mold was not addressed as part of this assessment.

9.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONALS

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in § 312.10 of 40 CFR Part 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared By:

Paige Callahan

Paige Callahan
Project Manager

Reviewed By:

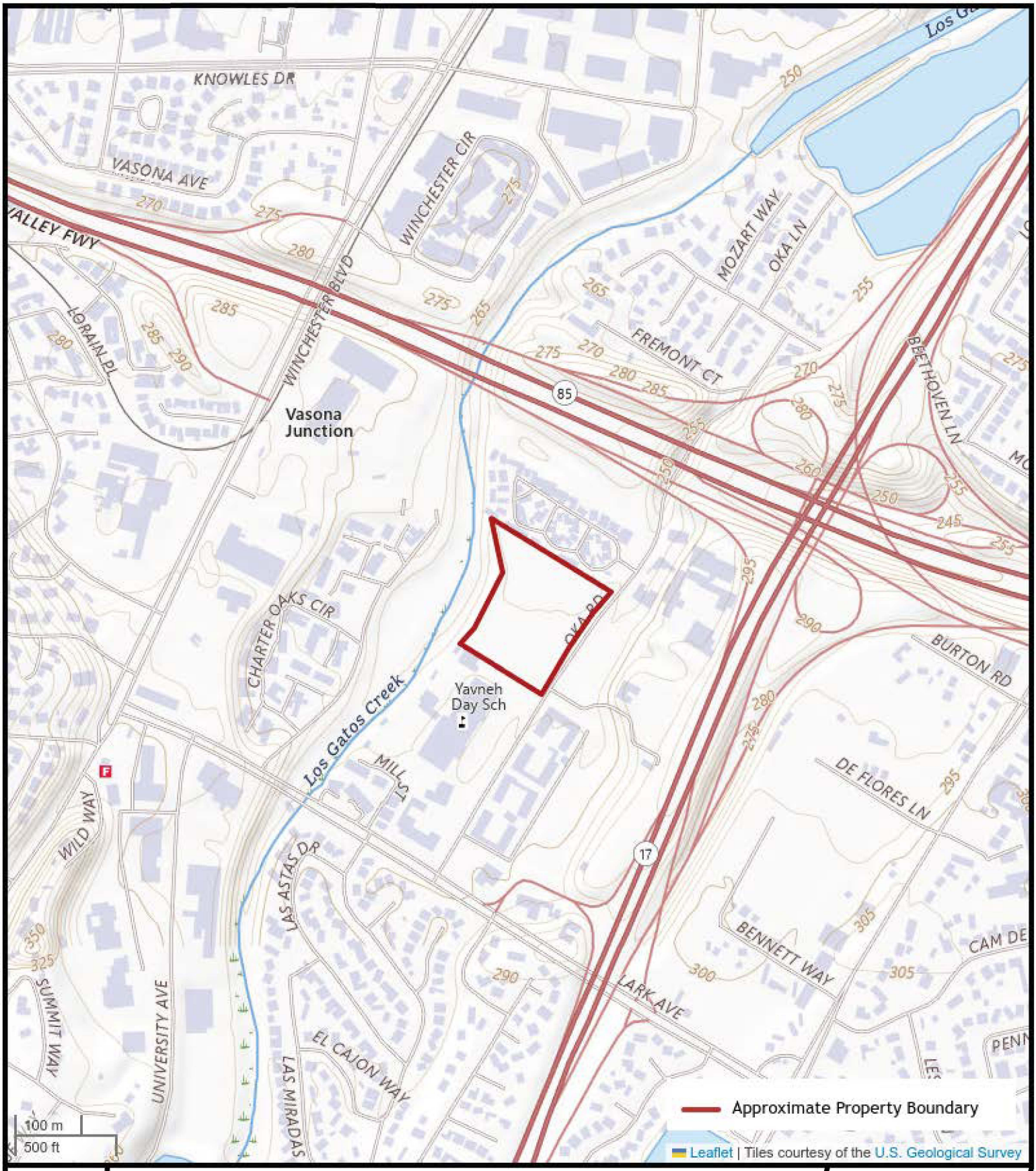
Tom Nanevicz
Senior Author

10.0 REFERENCES

Item	Date(s)	Source
Soils Information	Accessed June 2024	USDA Web Soil Survey http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx
Depth to Groundwater Information	Accessed June 2024	Remedial Action Completion Certificate for a nearby closed CPS-SLIC site at 980 University Avenue (approximately 1,695 feet southwest of the subject property), via GeoTracker
Aerial Photographs	1939-2020, non-inclusive	EDR
Sanborn Map Report/Search	June 12, 2024	EDR
City Directories	1962-2020, non-inclusive	EDR
Historical Topographic Maps	1889-2021, non-inclusive	EDR
Environmental Health Department	June 12, 2024	Santa Clara County Department of Environmental Health
Fire Department	June 12, 2024	Santa Clara County Fire Protection District
Building Department	June 12, 2024	Los Gatos Building Department
Planning Department	June 12, 2024	Los Gatos Planning Department
Assessor's Information and Parcel Map	June 12, 2024	Santa Clara County
Other Agencies Searched	June 12, 2024	SWRCB GeoTracker, DTSC HWTS, DTSC EnviroStor, BAAQMD, CalEPA, and GeoTracker PFAS Map
Oil and Gas Wells	June 12, 2024	California Geologic Energy Management Division
Oil and Gas Pipelines	June 12, 2024	NPMS Public Map Viewer https://www.npms.phmsa.dot.gov/PublicViewer/composite.jsf
Regulatory Database Report	June 12, 2024	EDR
Interview with Key Site Manager	June 12, 2024	Mallory Menne
Radon Zone Information	2016	California Department of Health Services Radon Database https://www.cdph.ca.gov/Programs/CEH/DRSEM/Pages/EMB/Radon/Radon-Test-Results.aspx

APPENDIX A

FIGURES



N

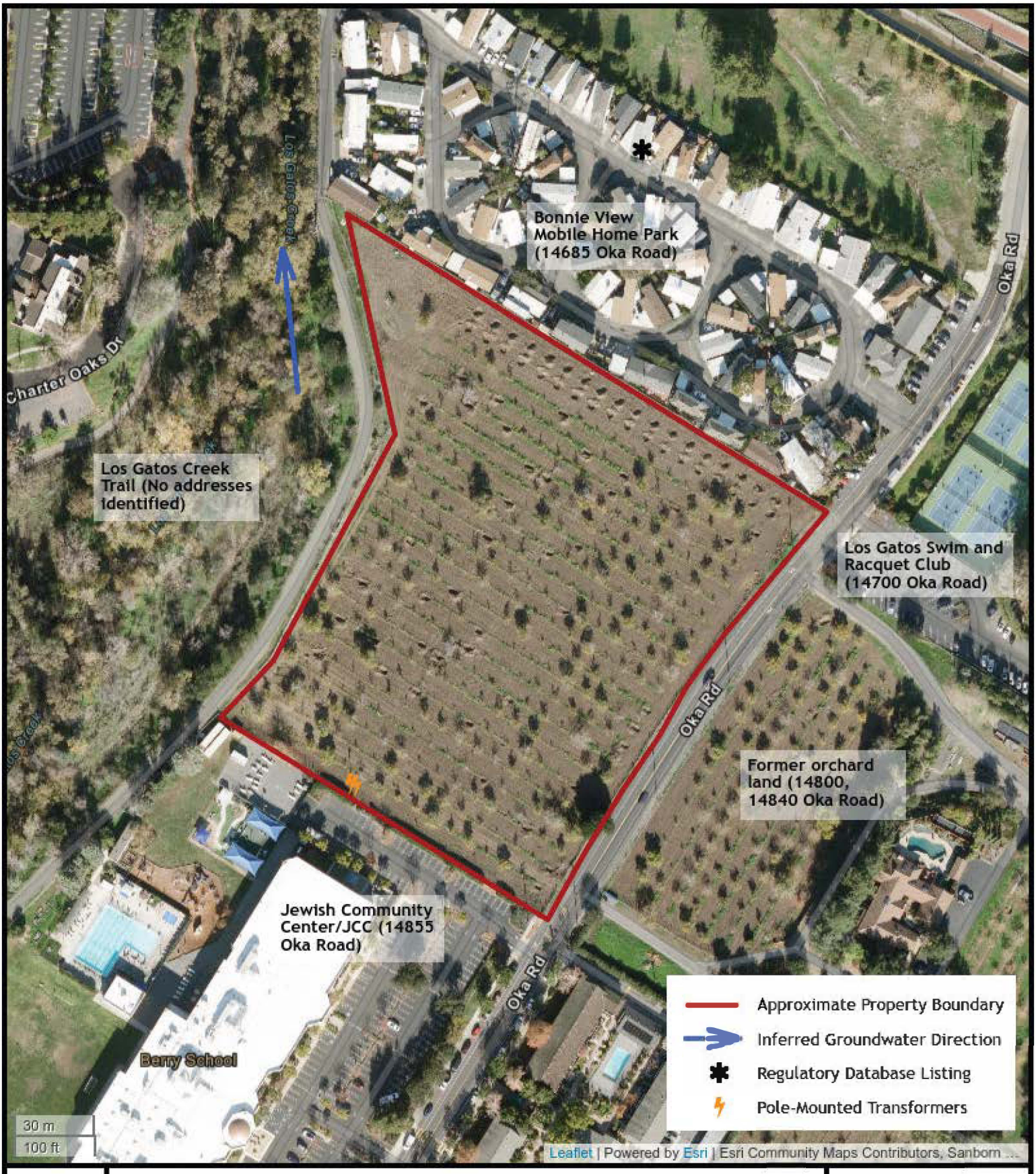
FIGURE 1: TOPOGRAPHIC MAP

Oka Road (Vacant Land), Los Gatos, California 95032

AEI Project Number: 494888

AEI

*Figure not OCR compatible.



N

FIGURE 2: SITE MAP

Oka Road, Los Gatos, California 95032
AEI Project Number: 494888

AEI

*Figure not OCR compatible.

APPENDIX B

PROPERTY PHOTOGRAPHS



1. Entrance to subject property from south corner



2. North-facing view of subject property



3. Northeast-facing view of subject property



4. East-facing view of subject property



5. Southeast-facing view of subject property



6. South-facing view of subject property



7. Southwest-facing view of subject property



8. West-facing view of subject property



9. Pole-mounted transformers on subject property



10. View of water irrigation pipeline in western corner of property



11. Northeast adjoining residences



12. Southeast adjoining agricultural land



13. Southwest adjoining community center



14. Northwest adjoining creek and trail

APPENDIX C

REGULATORY DATABASE

494888
Oka Road
Los Gatos, CA 95032

Inquiry Number: 7680460.2s
June 12, 2024

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

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Physical Setting Source Summary	A-2
Physical Setting Source Map	A-7
Physical Setting Source Map Findings	A-8
Physical Setting Source Records Searched	PSGR-1

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Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

OKA ROAD
LOS GATOS, CA 95032

COORDINATES

Latitude (North):	37.2536970 - 37ˆ 15' 13.30''
Longitude (West):	121.9610960 - 121ˆ 57' 39.94''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	592133.2
UTM Y (Meters):	4123318.2
Elevation:	265 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5640416 SAN JOSE WEST, CA
Version Date:	2012
South Map:	5640396 LOS GATOS, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year:	060
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
OKA ROAD
LOS GATOS, CA 95032

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	CHIAPPARELLI CONSTRU	14685 OKA ROAD #2	RCRA NonGen / NLR, E MANIFEST	Lower	163, 0.031, NNE
A2	SERGIO POZO	208 WILLOW HILL CT	RCRA NonGen / NLR	Higher	291, 0.055, NW
A3	DIANE LAFRANCE	215 CHARTER OAKS CIR	RCRA NonGen / NLR, E MANIFEST	Higher	423, 0.080, WNW
B4	BIPOLARICS INC		PFAS ECHO	Higher	448, 0.085, NNW
A5	JEANNE TOREE	306 WILLOW HILL CT	RCRA NonGen / NLR, E MANIFEST	Higher	466, 0.088, NW
C6	SCVWD-VASONA METER F	14545 OKA RD	CERS HAZ WASTE, CUPA Listings, HWTS, HAZNET, CERS	Lower	501, 0.095, NE
C7	SCVWD/SANTA CLARA VA	14545 OKA RD	RCRA NonGen / NLR, E MANIFEST	Lower	501, 0.095, NE
C8	SANTA CLARA VALLEY W	14545 OKA RD	AST	Lower	501, 0.095, NE
C9	LOS GATOS SWIM & RAC	14634 OKA RD	SWEEPS UST, HIST UST, CA FID UST	Lower	517, 0.098, NE
C10	LOS GATOS SWIM & RAC	14634 OKA RD	HIST UST	Lower	517, 0.098, NE
D11	CALPATH MEDICAL ASSO	100 C ALBRIGHT WAY	RCRA-SQG	Higher	539, 0.102, NW
D12	COMPUGRAPHICS USA		PFAS ECHO	Higher	701, 0.133, NW
B13	AQUEOUS LIMITED PART	141 ALBRIGHT WAY STE	RCRA-SQG, FINDS, ECHO	Higher	708, 0.134, NNW
E14	PENINSULA HISTOPATHO	160 ALBRIGHT WAY	RCRA-SQG	Higher	739, 0.140, NNW
E15	PENINSULA HISTOPATHO	160 ALBRIGHT WY STE	CERS HAZ WASTE, CERS	Higher	739, 0.140, NNW
E16	FET/TEST INC	160 ALBRIGHT WAY SUI	RCRA-SQG, FINDS, ECHO	Higher	739, 0.140, NNW
D17	GYNE PATH LABORATORY	100 ALBRIGHT WY C	CUPA Listings	Higher	745, 0.141, NW
D18	IA 062714 CALPATH ME	100 ALBRIGHT WY C	CUPA Listings	Higher	745, 0.141, NW
D19	CALERA CORPORATION	100 ALBRIGHT AV A	CERS HAZ WASTE, CUPA Listings, CERS	Higher	745, 0.141, NW
D20	IA 072613 COMPUGRAPH	120 ALBRIGHT WY	CUPA Listings	Higher	754, 0.143, NW
D21	BIPOLARICS INC	108 ALBRIGHT WAY	RCRA-SQG, FINDS, ECHO, EMI, HWTS, HAZNET	Higher	756, 0.143, NW
D22	BIPOLARICS INC	108 ALBRIGHT WY	CUPA Listings	Higher	756, 0.143, NW
E23	DIAMON IMAGES INC	120 C ALBRIGHT WAY	RCRA-SQG	Higher	814, 0.154, NW
24	KATHLEEN KEATING	SPRUCE HILL COURT	RCRA NonGen / NLR, E MANIFEST	Higher	815, 0.154, West
E25	NETFLIX	121 ALBRIGHT WAY	RCRA NonGen / NLR, E MANIFEST	Higher	866, 0.164, NW
26	IA 071513 CALERA COR	14600 WINCHESTER BL	CUPA Listings	Higher	866, 0.164, WNW
27	ABLE CONSTRUCTION GR	16615 LARK AVENUE	RCRA NonGen / NLR, E MANIFEST	Higher	868, 0.164, South
28	NETFLIX	101 ALBRIGHT WAY	RCRA NonGen / NLR	Higher	875, 0.166, NW
E29	NETFLIX INC LOS GATO	131 ALBRIGHT WAY	RCRA NonGen / NLR	Higher	892, 0.169, NNW
E30	DRESSER INDUSTRIES I	131 ALBRIGHT WAY	RCRA NonGen / NLR	Higher	892, 0.169, NNW
E31	DRESSER INDUSTRIES I	131 ALBRIGHT WAY	RCRA-SQG, FINDS, ECHO, EMI, HWTS, HAZNET	Higher	892, 0.169, NNW
F32	LOS GATOS OAKS CONVA	16605 LARK AVENUE	RCRA NonGen / NLR, E MANIFEST	Higher	1052, 0.199, South
F33	LOS GATOS SNF LLC	16601 LARK AVE UNITS	RCRA NonGen / NLR, E MANIFEST	Higher	1052, 0.199, South
G34	ATLAS OILFIELD SERVI	100 NE8905F BAY 4 AL	RCRA-SQG, FINDS, ECHO	Higher	1116, 0.211, WNW
H35	PG&E VASONA SUB	14700 WINCHESTER BLV	RCRA NonGen / NLR	Higher	1119, 0.212, WNW
H36	SANTA CLARA COUNTY F	14700 WINCHESTER BL	RCRA-SQG, FINDS, ECHO, PFAS ECHO	Higher	1119, 0.212, WNW
H37	SCCFD - HEADQUARTERS	14700 WINCHESTER BL	UST	Higher	1119, 0.212, WNW
H38	SCCFD HEADQUARTERS	14700 WINCHESTER BL	UST FINDER	Higher	1119, 0.212, WNW
H39	SCCFD HEADQUARTERS	14700 WINCHESTER BL	CERS TANKS, HWTS, CERS	Higher	1119, 0.212, WNW

MAPPED SITES SUMMARY

Target Property Address:
OKA ROAD
LOS GATOS, CA 95032

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
H40	SCCFD HEADQUARTERS	14700 WINCHESTER BL	UST	Higher	1119, 0.212, WNW
H41	CAL FIRE	14700 WINCHESTER BLV	SWEEPS UST, CA FID UST, HWTS, HAZNET	Higher	1119, 0.212, WNW
G42	SPAFFORD PROPERTY	14561 WINCHESTER BLV	SWEEPS UST	Higher	1176, 0.223, NW
43	RICHARD & AARTHI CAP	107 PASEO LAURA	RCRA NonGen / NLR, E MANIFEST	Lower	1189, 0.225, NNE
44	FINELINE PRINTED CIR	16780 LARK AVE STE A	RCRA-SQG, FINDS, ECHO, HWTS, HAZNET	Higher	1300, 0.246, WSW
45	METRICOM INC	980 UNIVERSITY AVE	CPS-SLIC, HWTS, HAZNET, CERS	Higher	1695, 0.321, SW
I46	GEOFFROY PROPERTY	14814B LOS GATOS BLV	HIST CORTESE	Higher	2022, 0.383, East
I47	MAX WOOD LIFE	14814 LOS GATOS BLVD	UST FINDER RELEASE	Higher	2023, 0.383, East
I48	GEOFFROY PROPERTY	14814 LOS GATOS BLVD	UST FINDER RELEASE	Higher	2023, 0.383, East
I49	GEOFFROY PROPERTY	14814 LOS GATOS BLVD	LUST, HIST LUST, HIST UST, Cortese, HIST CORTESE,...	Higher	2023, 0.383, East
50	CARMEN'S NURSERY	16201 MOZART AVENUE	ENVIROSTOR	Higher	2041, 0.387, ENE
J51	LARK AVENUE CAR WASH	16500 LARK AVENUE	UST FINDER RELEASE	Higher	2071, 0.392, SSE
J52	LARK AVENUE CAR WASH	16500 LARK AVE	LUST, HIST LUST, SWEEPS UST, Cortese, EMI, HIST...	Higher	2071, 0.392, SSE
K53	MAXXIM MEDICAL	14300 WINCHESTER BOU	ENVIROSTOR, CPS-SLIC, ENF, NPDES	Higher	2093, 0.396, North
K54	BECTON DICKINSON & C	14300 WINCHESTER BLV	SEMS-ARCHIVE	Higher	2093, 0.396, North
K55	BECTON DICKINSON & C	14300 WINCHESTER BLV	CPS-SLIC, EMI, CERS	Higher	2093, 0.396, North
L56	LOS GATOS NISSAN VOL	15166 LOS GATOS BLVD	UST FINDER RELEASE	Higher	2408, 0.456, SE
L57	LOS GATOS NISSAN VOL	15166 LOS GATOS BLVD	LUST, HIST LUST, HIST UST, Cortese, HIST CORTESE,...	Higher	2408, 0.456, SE
58	VASONA STATION ORCHI	14107-Q WINCHESTER B	CPS-SLIC, CERS	Higher	2411, 0.457, North
M59	GTE	930 UNIVERSITY AVE	LUST, HIST LUST, Cortese	Higher	2480, 0.470, SW
M60	VASONA P/Y	930 UNIVERSITY AVE	LUST, SWEEPS UST, HIST CORTESE, CERS	Higher	2480, 0.470, SW
M61	GTE	930 UNIVERSITY AVE	UST FINDER RELEASE	Higher	2480, 0.470, SW
N62	ORCHID CLEANERS	15310 LOS GATOS BLVD	RCRA-SQG, CPS-SLIC, BROWNFIELDS, CERS HAZ WASTE,..	Higher	2518, 0.477, SSE
63	SILICON GENESIS CORP	590 DIVISION STREET	ENVIROSTOR	Lower	2616, 0.495, North
N64	LOS GATOS 76	15380 LOS GATOS BL	LUST, HIST LUST, SWEEPS UST, HIST UST, Cortese,...	Higher	2638, 0.500, SSE
N65	UNOCAL SERVICE STATI	15380 LOS GATOS BLVD	UST FINDER RELEASE	Higher	2638, 0.500, SSE
66	ASHLAND CHEMICAL CO	1600 DELL AVE.	RCRA-SQG, ENVIROSTOR, CHMIRS, ICIS, FINDS, ECHO,...	Lower	3044, 0.577, NNE
67	EXXON GASOLINE STATI	3702 SOUTH BASCOM AV	Notify 65	Lower	4236, 0.802, ENE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL ---------- National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS ---------- Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-VSQG ---------- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROLS ---------- Institutional Controls Sites List

Federal ERNS list

ERNS ---------- Emergency Response Notification System

EXECUTIVE SUMMARY

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE ..... State Response Sites

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF ..... Solid Waste Information System

Lists of state and tribal leaking storage tanks

INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land

Lists of state and tribal registered storage tanks

FEMA UST ..... Underground Storage Tank Listing
INDIAN UST ..... Underground Storage Tanks on Indian Land

Lists of state and tribal voluntary cleanup sites

INDIAN VCP ..... Voluntary Cleanup Priority Listing
VCP ..... Voluntary Cleanup Program Properties

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ..... Waste Management Unit Database
SWRCY ..... Recycler Database
HAULERS ..... Registered Waste Tire Haulers Listing
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands
ODI ..... Open Dump Inventory
DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ..... Delisted National Clandestine Laboratory Register
HIST Cal-Sites ..... Historical Calsites Database
SCH ..... School Property Evaluation Program
CDL ..... Clandestine Drug Labs
Toxic Pits ..... Toxic Pits Cleanup Act Sites
US CDL ..... National Clandestine Laboratory Register

Local Land Records

LIENS ..... Environmental Liens Listing
LIENS 2 ..... CERCLA Lien Information
DEED ..... Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System

CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
MINES MRDS	Mineral Resources Data System
ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
UXO	Unexploded Ordnance Sites
ECHO	Enforcement & Compliance History Information
DOCKET HWC	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	EPA Fuels Program Registered Listing
PFAS NPL	Superfund Sites with PFAS Detections Information
PFAS FEDERAL SITES	Federal Sites PFAS Information
PFAS TSCA	PFAS Manufacture and Imports Information
PFAS TRIS	List of PFAS Added to the TRI
PFAS RCRA MANIFEST	PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR	PFAS Contamination Site Location Listing
PFAS WQP	Ambient Environmental Sampling for PFAS
PFAS NPDES	Clean Water Act Discharge Monitoring Information
PFAS ECHO FIRE TRAIN	Facilities in Industries that May Be Handling PFAS Listing
PFAS PT 139 AIRPORT	All Certified Part 139 Airports PFAS Information Listing

EXECUTIVE SUMMARY

AQUEOUS FOAM NRC - Aqueous Foam Related Incidents Listing
BIOSOLIDS - ICIS-NPDES Biosolids Facility Data
PFAS - PFAS Investigation Site Location Listing
AQUEOUS FOAM - Former Fire Training Facility Assessments Listing
CA BOND EXP. PLAN - Bond Expenditure Plan
CHROME PLATING - Chrome Plating Facilities Listing
DRYCLEANERS - Cleaner Facilities
EMI - Emissions Inventory Data
ENF - Enforcement Action Listing
Financial Assurance - Financial Assurance Information Listing
ICE - Inspection, Compliance and Enforcement
HWP - EnviroStor Permitted Facilities Listing
HWT - Registered Hazardous Waste Transporter Database
HWTS - Hazardous Waste Tracking System
HAZNET - Facility and Manifest Data
MINES - Mines Site Location Listing
MWMP - Medical Waste Management Program Listing
NPDES - NPDES Permits Listing
PEST LIC - Pesticide Regulation Licenses Listing
PROC - Certified Processors Database
HAZMAT - Hazardous Material Facilities
UIC - UIC Listing
UIC GEO - UIC GEO (GEOTRACKER)
WASTEWATER PITS - Oil Wastewater Pits Listing
WDS - Waste Discharge System
WIP - Well Investigation Program Case List
MILITARY PRIV SITES - MILITARY PRIV SITES (GEOTRACKER)
PROJECT - PROJECT (GEOTRACKER)
WDR - Waste Discharge Requirements Listing
CIWQS - California Integrated Water Quality System
CERS - CERS
NON-CASE INFO - NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS - OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS - PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT - SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ - Well Stimulation Project (GEOTRACKER)
PFAS PROJECT - NORTHEASTERN UNIVERSITY PFAS PROJECT

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.

EXECUTIVE SUMMARY

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

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 04/22/2024 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BECTON DICKINSON & C Site ID: 0901311 EPA Id: CAD039133277	14300 WINCHESTER BLV	N 1/4 - 1/2 (0.396 mi.)	K54	208

Lists of Federal RCRA generators

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 12/04/2023 has revealed that there are 10 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CALPATH MEDICAL ASSO EPA ID:: CAR000220160	100 C ALBRIGHT WAY	NW 0 - 1/8 (0.102 mi.)	D11	51
AQUEOUS LIMITED PART EPA ID:: CAD982040438	***141 ALBRIGHT WAY STE***	***NNW 1/8 - 1/4 (0.134 mi.)***	***B13***	***55***
PENINSULA HISTOPATHO	160 ALBRIGHT WAY	NNW 1/8 - 1/4 (0.140 mi.)	E14	58

EPA ID:: CAR000151217				
FET/TEST INC EPA ID:: CAD081448920	***160 ALBRIGHT WAY SUI***	***NNW 1/8 - 1/4 (0.140 mi.)***	***E16***	***62***
BIPOLARICS INC EPA ID:: CAD982477044	***108 ALBRIGHT WAY***	***NW 1/8 - 1/4 (0.143 mi.)***	***D21***	***68***
DIAMON IMAGES INC EPA ID:: CAD102100922	120 C ALBRIGHT WAY	NW 1/8 - 1/4 (0.154 mi.)	E23	75
DRESSER INDUSTRIES I EPA ID:: CAD982320715	***131 ALBRIGHT WAY***	***NNW 1/8 - 1/4 (0.169 mi.)***	***E31***	***99***
ATLAS OILFIELD SERVI EPA ID:: CAD981963937	***100 NE8905F BAY 4 AL***	***WNW 1/8 - 1/4 (0.211 mi.)***	***G34***	***115***
SANTA CLARA COUNTY F EPA ID:: CAD982480154	***14700 WINCHESTER BL***	***WNW 1/8 - 1/4 (0.212 mi.)***	***H36***	***120***
FINELINE PRINTED CIR EPA ID:: CAR000006825	***16780 LARK AVE STE A***	***WSW 1/8 - 1/4 (0.246 mi.)***	***44***	***145***

Lists of state- and tribal hazardous waste facilities

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 01/22/2024 has revealed that there are 4 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
CARMEN'S NURSERY Facility Id: 70000096 Status: No Action Required	16201 MOZART AVENUE	ENE 1/4 - 1/2 (0.387 mi.)	50	174
MAXXIM MEDICAL Facility Id: 71002289 Facility Id: 43300115 Status: Refer: Other Agency Status: Refer: RWQCB	***14300 WINCHESTER BOU***	***N 1/4 - 1/2 (0.396 mi.)***	***K53***	***200***

Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
SILICON GENESIS CORP Facility Id: 71003650 Status: Inactive - Needs Evaluation	590 DIVISION STREET	N 1/4 - 1/2 (0.495 mi.)	63	270
ASHLAND CHEMICAL CO	***1600 DELL AVE.***	***NNE 1/2 - 1 (0.577 mi.)***	***66***	***280***

Facility Id: 71003078
Status: Inactive - Needs Evaluation

Lists of state and tribal leaking storage tanks

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 6 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GEOFFROY PROPERTY	***14814 LOS GATOS BLVD***	***E 1/4 - 1/2 (0.383 mi.)***	***I49***	***166***
Database: LUST REG 2, Date of Government Version: 09/30/2004 Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014 Database: LUST, Date of Government Version: 03/04/2024 Status: Completed - Case Closed Date Closed: 01/06/1992 Date Closed: 01/16/1996 Facility Status: Case Closed Global Id: T0608501936 Global Id: T0608500877 SCVWD ID: 08S1W10H01F SCVWD ID: 08S1W10H02F date9: 1/16/1996 date9: 1/6/1992				
LARK AVENUE CAR WASH	***16500 LARK AVE***	***SSE 1/4 - 1/2 (0.392 mi.)***	***J52***	***176***
Database: LUST REG 2, Date of Government Version: 09/30/2004 Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014 Database: LUST, Date of Government Version: 03/04/2024 Status: Open - Verification Monitoring Facility Status: Remedial action (cleanup) Underway Global Id: T0608500398 SCVWD ID: 08S1W10L01F				
LOS GATOS NISSAN VOL	***15166 LOS GATOS BLVD***	***SE 1/4 - 1/2 (0.456 mi.)***	***L57***	***214***
Database: LUST REG 2, Date of Government Version: 09/30/2004 Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014 Database: LUST, Date of Government Version: 03/04/2024 Status: Completed - Case Closed Date Closed: 01/17/1992 Facility Status: Case Closed Global Id: T0608500847 SCVWD ID: 08S1W10K01F date9: 1/17/1992				
GTE	***930 UNIVERSITY AVE***	***SW 1/4 - 1/2 (0.470 mi.)***	***M59***	***240***
Database: LUST REG 2, Date of Government Version: 09/30/2004 Facility Status: Case Closed date9: 3/25/1996				
VASONA P/Y	***930 UNIVERSITY AVE***	***SW 1/4 - 1/2 (0.470 mi.)***	***M60***	***241***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014 Database: LUST, Date of Government Version: 03/04/2024				

Status: Completed - Case Closed
Date Closed: 03/25/1996
Global Id: T0608500674
SCVWD ID: 08S1W10M01F

LOS GATOS 76 ***15380 LOS GATOS BL*** ***SSE 1/4 - 1/2 (0.500 mi.)*** ***N64*** ***271***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/04/2024
Status: Completed - Case Closed
Facility Status: Case Closed
Global Id: T0608501498
date9: 5/6/1992

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 5 CPS-SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
METRICOM INC	***980 UNIVERSITY AVE***	***SW 1/4 - 1/2 (0.321 mi.)***	***45***	***158***
Database: CPS-SLIC, Date of Government Version: 03/04/2024 Facility Status: Completed - Case Closed Global Id: T10000007675				
MAXXIM MEDICAL	***14300 WINCHESTER BOU***	***N 1/4 - 1/2 (0.396 mi.)***	***K53***	***200***
Database: CPS-SLIC, Date of Government Version: 03/04/2024 Database: SLIC REG 2, Date of Government Version: 09/30/2004 Facility Status: Completed - Case Closed Facility Id: SL18293714 Global Id: T0608591798				
BECTON DICKINSON & C	***14300 WINCHESTER BLV***	***N 1/4 - 1/2 (0.396 mi.)***	***K55***	***209***
Database: SLIC REG 2, Date of Government Version: 09/30/2004 Facility Id: 43-1978				
VASONA STATION ORCHI	***14107-Q WINCHESTER B***	***N 1/4 - 1/2 (0.457 mi.)***	***58***	***239***
Database: CPS-SLIC, Date of Government Version: 03/04/2024 Facility Status: Open - Assessment & Interim Remedial Action Global Id: T10000013257				
ORCHID CLEANERS	***15310 LOS GATOS BLVD***	***SSE 1/4 - 1/2 (0.477 mi.)***	***N62***	***246***
Database: CPS-SLIC, Date of Government Version: 03/04/2024 Facility Status: Open - Remediation Global Id: T10000006700				

HIST LUST: 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.

A review of the HIST LUST list, as provided by EDR, and dated 03/29/2005 has revealed that there are 5 HIST LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GEOFFROY PROPERTY	***14814 LOS GATOS BLVD***	***E 1/4 - 1/2 (0.383 mi.)***	***I49***	***166***
SCVWD ID: 08S1W10H01				
SCVWD ID: 08S1W10H02				
LARK AVENUE CAR WASH	***16500 LARK AVE***	***SSE 1/4 - 1/2 (0.392 mi.)***	***J52***	***176***
SCVWD ID: 08S1W10L01				
LOS GATOS NISSAN VOL	***15166 LOS GATOS BLVD***	***SE 1/4 - 1/2 (0.456 mi.)***	***L57***	***214***
SCVWD ID: 08S1W10K01				
GTE	***930 UNIVERSITY AVE***	***SW 1/4 - 1/2 (0.470 mi.)***	***M59***	***240***
SCVWD ID: 08S1W10M01				
LOS GATOS 76	***15380 LOS GATOS BL***	***SSE 1/4 - 1/2 (0.500 mi.)***	***N64***	***271***
SCVWD ID: 08S1W10P03				

Lists of state and tribal registered storage tanks

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 2 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SCCFD - HEADQUARTERS	14700 WINCHESTER BL	WNW 1/8 - 1/4 (0.212 mi.)	H37	127
Database: UST, Date of Government Version: 03/04/2024				
Facility Id: 68				
SCCFD HEADQUARTERS	14700 WINCHESTER BL	WNW 1/8 - 1/4 (0.212 mi.)	H40	137
Database: UST, Date of Government Version: 03/04/2024				
Facility Id: 43-003-002325				

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SANTA CLARA VALLEY W	14545 OKA RD	NE 0 - 1/8 (0.095 mi.)	C8	49
Database: AST, Date of Government Version: 07/06/2016				

Lists of state and tribal brownfield sites

BROWNFIELDS: A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

A review of the BROWNFIELDS list, as provided by EDR, and dated 03/19/2024 has revealed that there is

1 BROWNFIELDS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ORCHID CLEANERS	***15310 LOS GATOS BLVD***	***SSE 1/4 - 1/2 (0.477 mi.)***	***N62***	***246***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 01/16/2024 has revealed that there are 3 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PENINSULA HISTOPATHO	***160 ALBRIGHT WY STE***	***NNW 1/8 - 1/4 (0.140 mi.)***	***E15***	***61***
CALERA CORPORATION	***100 ALBRIGHT AV A***	***NW 1/8 - 1/4 (0.141 mi.)***	***D19***	***65***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
SCVWD-VASONA METER F	***14545 OKA RD***	***NE 0 - 1/8 (0.095 mi.)***	***C6***	***24***

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 3 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CAL FIRE	***14700 WINCHESTER BLV***	***WNW 1/8 - 1/4 (0.212 mi.)***	***H41***	***138***
Status: A Tank Status: A Comp Number: 3882				
SPAFFORD PROPERTY Comp Number: 246	14561 WINCHESTER BLV	NW 1/8 - 1/4 (0.223 mi.)	G42	140
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
LOS GATOS SWIM & RAC Comp Number: 64990	***14634 OKA RD***	***NE 0 - 1/8 (0.098 mi.)***	***C9***	***49***

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 HIST UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LOS GATOS SWIM & RAC	***14634 OKA RD***	***NE 0 - 1/8 (0.098 mi.)***	***C9***	***49***
LOS GATOS SWIM & RAC Facility Id: 00000064990	14634 OKA RD	NE 0 - 1/8 (0.098 mi.)	C10	51

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 2 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CAL FIRE Facility Id: 43007255 Status: A	***14700 WINCHESTER BLV***	***WNW 1/8 - 1/4 (0.212 mi.)***	***H41***	***138***

Lower Elevation	Address	Direction / Distance	Map ID	Page
LOS GATOS SWIM & RAC Facility Id: 43011902 Status: I	***14634 OKA RD***	***NE 0 - 1/8 (0.098 mi.)***	***C9***	***49***

CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CERS TANKS list, as provided by EDR, and dated 01/16/2024 has revealed that there is 1 CERS TANKS site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SCCFD HEADQUARTERS	***14700 WINCHESTER BL***	***WNW 1/8 - 1/4 (0.212 mi.)***	***H39***	***129***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 12/04/2023 has revealed that there are 15 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SERGIO POZO	208 WILLOW HILL CT	NW 0 - 1/8 (0.055 mi.)	A2	13

EPA ID:: CAC003259152				
DIANE LAFRANCE	***215 CHARTER OAKS CIR***	***WNW 0 - 1/8 (0.080 mi.)***	***A3***	***15***
EPA ID:: CAC003137475				
JEANNE TOREE	***306 WILLOW HILL CT***	***NW 0 - 1/8 (0.088 mi.)***	***A5***	***20***
EPA ID:: CAC003103897				
KATHLEEN KEATING	***SPRUCE HILL COURT***	***W 1/8 - 1/4 (0.154 mi.)***	***24***	***80***
EPA ID:: CAC003074901				
NETFLIX	***121 ALBRIGHT WAY***	***NW 1/8 - 1/4 (0.164 mi.)***	***E25***	***84***
EPA ID:: CAL000475072				
ABLE CONSTRUCTION GR	***16615 LARK AVENUE***	***S 1/8 - 1/4 (0.164 mi.)***	***27***	***88***
EPA ID:: CAC003010775				
NETFLIX	101 ALBRIGHT WAY	NW 1/8 - 1/4 (0.166 mi.)	28	92
EPA ID:: CAC003259460				
NETFLIX INC LOS GATO	131 ALBRIGHT WAY	NNW 1/8 - 1/4 (0.169 mi.)	E29	94
EPA ID:: CAL000470494				
DRESSER INDUSTRIES I	131 ALBRIGHT WAY	NNW 1/8 - 1/4 (0.169 mi.)	E30	97
EPA ID:: CAD982343279				
LOS GATOS OAKS CONVA	***16605 LARK AVENUE***	***S 1/8 - 1/4 (0.199 mi.)***	***F32***	***107***
EPA ID:: CAC003076834				
LOS GATOS SNF LLC	***16601 LARK AVE UNITS***	***S 1/8 - 1/4 (0.199 mi.)***	***F33***	***111***
EPA ID:: CAC002970545				
PG&E VASONA SUB	14700 WINCHESTER BLV	WNW 1/8 - 1/4 (0.212 mi.)	H35	118
EPA ID:: CAC003225700				

Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
CHIAPPARELLI CONSTRU	***14685 OKA ROAD #2***	***NNE 0 - 1/8 (0.031 mi.)***	***1***	***9***
EPA ID:: CAC002989336				
SCVWD/SANTA CLARA VA	***14545 OKA RD***	***NE 0 - 1/8 (0.095 mi.)***	***C7***	***36***
EPA ID:: CAL000038623				
RICHARD & AARTHI CAP	***107 PASEO LAURA***	***NNE 1/8 - 1/4 (0.225 mi.)***	***43***	***141***
EPA ID:: CAC003179871				

PFAS ECHO: Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

A review of the PFAS ECHO list, as provided by EDR, and dated 12/28/2023 has revealed that there are 3 PFAS ECHO sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
BIPOLARICS INC		NNW 0 - 1/8 (0.085 mi.)	B4	19
COMPUGRAPHICS USA		NW 1/8 - 1/4 (0.133 mi.)	D12	54
SANTA CLARA COUNTY F	***14700 WINCHESTER BL***	***WNW 1/8 - 1/4 (0.212 mi.)***	***H36***	***120***

EXECUTIVE SUMMARY

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 03/19/2024 has revealed that there are 5 Cortese sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GEOFFROY PROPERTY	***14814 LOS GATOS BLVD***	***E 1/4 - 1/2 (0.383 mi.)***	***I49***	***166***
Cleanup Status: COMPLETED - CASE CLOSED				
LARK AVENUE CAR WASH	***16500 LARK AVE***	***SSE 1/4 - 1/2 (0.392 mi.)***	***J52***	***176***
Cleanup Status: OPEN - VERIFICATION MONITORING				
LOS GATOS NISSAN VOL	***15166 LOS GATOS BLVD***	***SE 1/4 - 1/2 (0.456 mi.)***	***L57***	***214***
Cleanup Status: COMPLETED - CASE CLOSED				
GTE	***930 UNIVERSITY AVE***	***SW 1/4 - 1/2 (0.470 mi.)***	***M59***	***240***
Cleanup Status: COMPLETED - CASE CLOSED				
LOS GATOS 76	***15380 LOS GATOS BL***	***SSE 1/4 - 1/2 (0.500 mi.)***	***N64***	***271***
Cleanup Status: COMPLETED - CASE CLOSED				

CUPA Listings: 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.

A review of the CUPA Listings list, as provided by EDR, has revealed that there are 7 CUPA Listings sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GYNE PATH LABORATORY	100 ALBRIGHT WY C	NW 1/8 - 1/4 (0.141 mi.)	D17	64
Database: CUPA SANTA CLARA, Date of Government Version: 02/21/2024				
IA 062714 CALPATH ME	100 ALBRIGHT WY C	NW 1/8 - 1/4 (0.141 mi.)	D18	65
Database: CUPA SANTA CLARA, Date of Government Version: 02/21/2024				
CALERA CORPORATION	***100 ALBRIGHT AV A***	***NW 1/8 - 1/4 (0.141 mi.)***	***D19***	***65***
Database: CUPA SANTA CLARA, Date of Government Version: 02/21/2024				
IA 072613 COMPUGRAPH	120 ALBRIGHT WY	NW 1/8 - 1/4 (0.143 mi.)	D20	67
Database: CUPA SANTA CLARA, Date of Government Version: 02/21/2024				
BIPOLARICS INC	108 ALBRIGHT WY	NW 1/8 - 1/4 (0.143 mi.)	D22	74
Database: CUPA SANTA CLARA, Date of Government Version: 02/21/2024				
IA 071513 CALERA COR	14600 WINCHESTER BL	WNW 1/8 - 1/4 (0.164 mi.)	26	88
Database: CUPA SANTA CLARA, Date of Government Version: 02/21/2024				

Lower Elevation	Address	Direction / Distance	Map ID	Page
SCVWD-VASONA METER F	***14545 OKA RD***	***NE 0 - 1/8 (0.095 mi.)***	***C6***	***24***
Database: CUPA SANTA CLARA, Date of Government Version: 02/21/2024				

EXECUTIVE SUMMARY

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 6 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GEOFFROY PROPERTY Reg Id: 43-2108	14814B LOS GATOS BLV	E 1/4 - 1/2 (0.383 mi.)	I46	165
GEOFFROY PROPERTY Reg Id: 43-0866	***14814 LOS GATOS BLVD***	***E 1/4 - 1/2 (0.383 mi.)***	***I49***	***166***
LARK AVENUE CAR WASH Reg Id: 43-0342	***16500 LARK AVE***	***SSE 1/4 - 1/2 (0.392 mi.)***	***J52***	***176***
LOS GATOS NISSAN VOL Reg Id: 43-0833	***15166 LOS GATOS BLVD***	***SE 1/4 - 1/2 (0.456 mi.)***	***L57***	***214***
VASONA P/Y Reg Id: 43-0640	***930 UNIVERSITY AVE***	***SW 1/4 - 1/2 (0.470 mi.)***	***M60***	***241***
LOS GATOS 76 Reg Id: 43-1536	***15380 LOS GATOS BL***	***SSE 1/4 - 1/2 (0.500 mi.)***	***N64***	***271***

Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the Notify 65 list, as provided by EDR, and dated 03/08/2024 has revealed that there are 3 Notify 65 sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LARK AVENUE CAR WASH	***16500 LARK AVE***	***SSE 1/4 - 1/2 (0.392 mi.)***	***J52***	***176***
LOS GATOS 76	***15380 LOS GATOS BL***	***SSE 1/4 - 1/2 (0.500 mi.)***	***N64***	***271***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
EXXON GASOLINE STATI	3702 SOUTH BASCOM AV	ENE 1/2 - 1 (0.802 mi.)	67	293

UST FINDER RELEASE: US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

A review of the UST FINDER RELEASE list, as provided by EDR, and dated 06/08/2023 has revealed that there are 6 UST FINDER RELEASE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MAX WOOD LIFE	14814 LOS GATOS BLVD	E 1/4 - 1/2 (0.383 mi.)	I47	165
GEOFFROY PROPERTY	14814 LOS GATOS BLVD	E 1/4 - 1/2 (0.383 mi.)	I48	166
LARK AVENUE CAR WASH	16500 LARK AVENUE	SSE 1/4 - 1/2 (0.392 mi.)	J51	175
LOS GATOS NISSAN VOL	15166 LOS GATOS BLVD	SE 1/4 - 1/2 (0.456 mi.)	L56	213
GTE	930 UNIVERSITY AVE	SW 1/4 - 1/2 (0.470 mi.)	M61	245
UNOCAL SERVICE STATI	15380 LOS GATOS BLVD	SSE 1/4 - 1/2 (0.500 mi.)	N65	279

EXECUTIVE SUMMARY

UST FINDER: EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories . UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

A review of the UST FINDER list, as provided by EDR, and dated 06/08/2023 has revealed that there is 1 UST FINDER site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SCCFD HEADQUARTERS	14700 WINCHESTER BL	WNW 1/8 - 1/4 (0.212 mi.)	H38	128

E MANIFEST: EPA established a national system for tracking hazardous waste shipments electronically. This system, known as ?e-Manifest,? will modernize the nation?s cradle-to-grave hazardous waste tracking process while saving valuable time, resources, and dollars for industry and states.

A review of the E MANIFEST list, as provided by EDR, and dated 07/24/2023 has revealed that there are 10 E MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DIANE LAFRANCE	***215 CHARTER OAKS CIR***	***WNW 0 - 1/8 (0.080 mi.)***	***A3***	***15***
JEANNE TOREE	***306 WILLOW HILL CT***	***NW 0 - 1/8 (0.088 mi.)***	***A5***	***20***
KATHLEEN KEATING	***SPRUCE HILL COURT***	***W 1/8 - 1/4 (0.154 mi.)***	***24***	***80***
NETFLIX	***121 ALBRIGHT WAY***	***NW 1/8 - 1/4 (0.164 mi.)***	***E25***	***84***
ABLE CONSTRUCTION GR	***16615 LARK AVENUE***	***S 1/8 - 1/4 (0.164 mi.)***	***27***	***88***
LOS GATOS OAKS CONVA	***16605 LARK AVENUE***	***S 1/8 - 1/4 (0.199 mi.)***	***F32***	***107***
LOS GATOS SNF LLC	***16601 LARK AVE UNITS***	***S 1/8 - 1/4 (0.199 mi.)***	***F33***	***111***

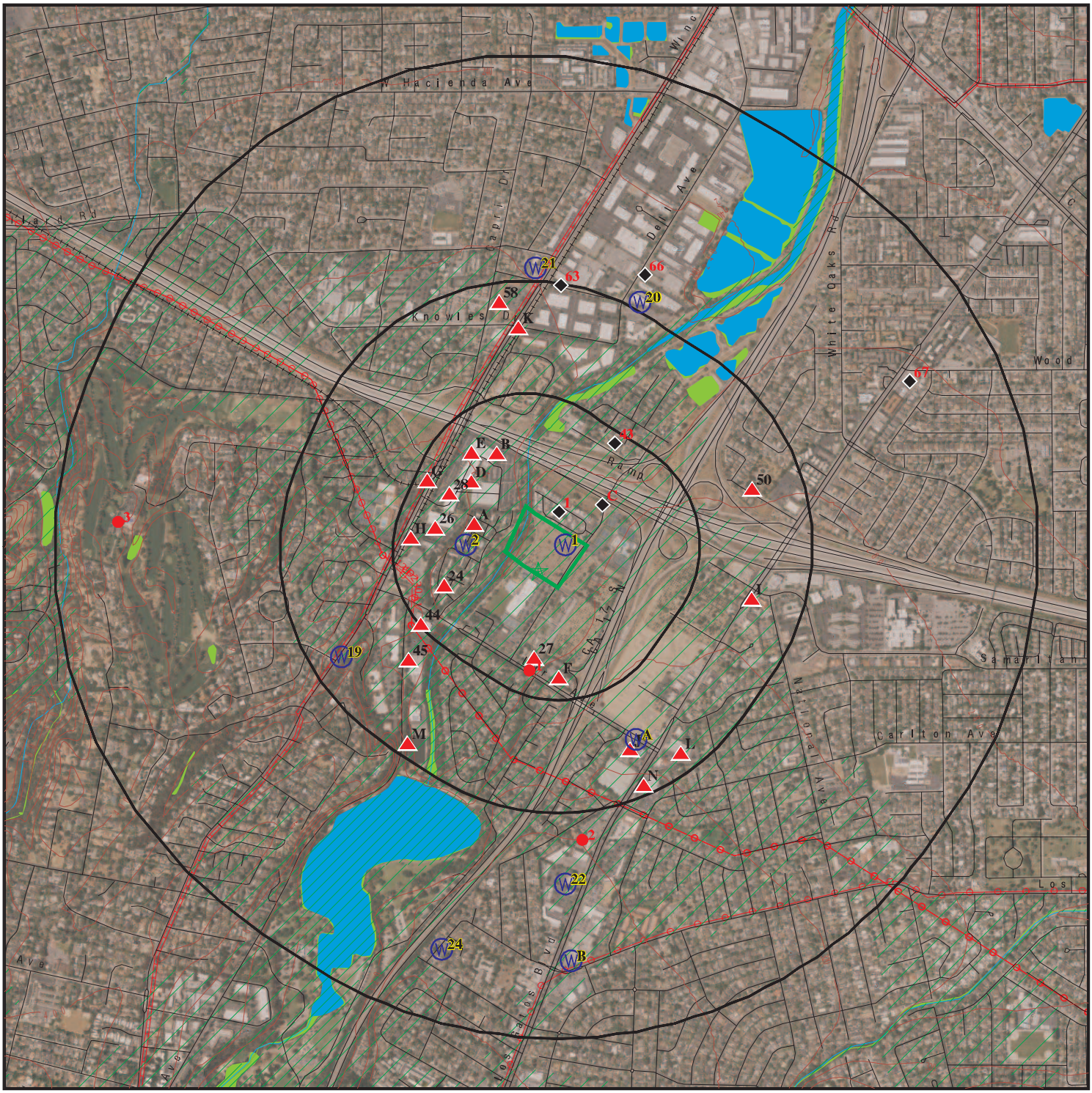
Lower Elevation	Address	Direction / Distance	Map ID	Page
CHIAPPARELLI CONSTRU	***14685 OKA ROAD #2***	***NNE 0 - 1/8 (0.031 mi.)***	***1***	***9***
SCVWD/SANTA CLARA VA	***14545 OKA RD***	***NE 0 - 1/8 (0.095 mi.)***	***C7***	***36***
RICHARD & AARTHI CAP	***107 PASEO LAURA***	***NNE 1/8 - 1/4 (0.225 mi.)***	***43***	***141***

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name	Database(s)
TOSCO #3658	LUST, HIST LUST, Cortese
ROBSON HOMES MOZART AVE DEVELOPMEN	CPS-SLIC

OVERVIEW MAP - 7680460.2S



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 494888	CLIENT: AEI Consultants
ADDRESS: Oka Road Los Gatos CA 95032	CONTACT: Yvonne
LAT/LONG: 37.253697 / 121.961096	INQUIRY #: 7680460.2s DATE: June 12, 2024 5:55 pm

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DETAIL MAP - 7680460.2S



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 494888	CLIENT: AEI Consultants
ADDRESS: Oka Road Los Gatos CA 95032	CONTACT: Yvonne
LAT/LONG: 37.253697 / 121.961096	INQUIRY #: 7680460.2s DATE: June 12, 2024 5:55 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	1	NR	NR	1
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		1	9	NR	NR	NR	10
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
Lists of state- and tribal (Superfund) equivalent sites								
RESPONSE	1.000		0	0	0	0	NR	0
Lists of state- and tribal hazardous waste facilities								
ENVIROSTOR	1.000		0	0	3	1	NR	4
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Lists of state and tribal leaking storage tanks								
LUST	0.500		0	0	6	NR	NR	6
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	5	NR	NR	5
HIST LUST	0.500		0	0	5	NR	NR	5
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	2	NR	NR	NR	2
AST	0.250		1	0	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	1	NR	NR	1
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		1	2	NR	NR	NR	3
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		1	2	NR	NR	NR	3
HIST UST	0.250		2	0	NR	NR	NR	2
CA FID UST	0.250		1	1	NR	NR	NR	2
CERS TANKS	0.250		0	1	NR	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		5	10	NR	NR	NR	15
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
MINES MRDS	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		1	2	NR	NR	NR	3
PFAS ECHO FIRE TRAIN	0.250		0	0	NR	NR	NR	0
PFAS PT 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
BIOSOLIDS	TP		NR	NR	NR	NR	NR	0
PFAS	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CHROME PLATING	0.500		0	0	0	NR	NR	0
Cortese	0.500		0	0	5	NR	NR	5
CUPA Listings	0.250		1	6	NR	NR	NR	7
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
ICE	TP		NR	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	6	NR	NR	6
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
HWTS	TP		NR	NR	NR	NR	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	2	1	NR	3
HAZMAT	0.250		0	0	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
UIC GEO	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0
PROJECT	TP		NR	NR	NR	NR	NR	0
WDR	TP		NR	NR	NR	NR	NR	0
CIWQS	TP		NR	NR	NR	NR	NR	0
CERS	TP		NR	NR	NR	NR	NR	0
NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0
PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0
SAMPLING POINT	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0
UST FINDER RELEASE	0.500		0	0	6	NR	NR	6
PFAS PROJECT	0.500		0	0	0	NR	NR	0
UST FINDER	0.250		0	1	NR	NR	NR	1
E MANIFEST	0.250		4	6	NR	NR	NR	10
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 GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	18	42	40	2	0	102

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1
NNE
< 1/8
0.031 mi.
163 ft.

CHIAPPARELLI CONSTRUCTION, INC.
14685 OKA ROAD #2
LOS GATOS, CA 95032

RCRA NonGen / NLR
E MANIFEST

1024769445
CAC002989336

Relative:
Lower

Actual:
263 ft.

RCRA Listings:

Date Form Received by Agency:	20181114
Handler Name:	Chiapparelli Construction, Inc.
Handler Address:	14685 Oka Road #2
Handler City,State,Zip:	LOS GATOS, CA 95032
EPA ID:	CAC002989336
Contact Name:	CHIAPPARELLI CONSTRUCTION, INC.
Contact Address:	14685 OKA ROAD #2
Contact City,State,Zip:	LOS GATOS, CA 95032
Contact Telephone:	650-465-0456
Contact Fax:	510-651-7702
Contact Email:	MICKIEL@PWSEI.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	14685 OKA ROAD #2
Mailing City,State,Zip:	LOS GATOS, CA 95032
Owner Name:	Chiaparelli Construction, Inc.
Owner Type:	Other
Operator Name:	Chiapparelli Construction, Inc.
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No

CHIAPPARELLI CONSTRUCTION, INC. (Continued) **1024769445**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20181120
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CHIAPARELLI CONSTRUCTION, INC.
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14685 OKA ROAD #2
Owner/Operator City,State,Zip:	LOS GATOS, CA 95032
Owner/Operator Telephone:	650-465-0456
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	CHIAPPARELLI CONSTRUCTION, INC.
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14685 OKA ROAD #2
Owner/Operator City,State,Zip:	LOS GATOS, CA 95032
Owner/Operator Telephone:	650-465-0456
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20181114
Handler Name:	CHIAPPARELLI CONSTRUCTION, INC.
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

CHIAPPARELLI CONSTRUCTION, INC. (Continued) **1024769445**

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E MANIFEST:

Manifest Tracking Number:	019791174JJK
Last Updated Date:	20181213
Shipped Date:	20181126
Received Date:	20181130
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAC002989336
Generator Name:	CHIAPPARELLI CONSTRUCTION, INC. 42-0424-9300
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	14685 OKA ROAD #2
Generator Mail Street 2:	Not reported
Generator Mail City:	LOS GATOS
Generator Mail State:	CA
Generator Mail Zip:	95032
Generator Location Street Number:	Not reported
Generator Location Street 1:	14685 OKA ROAD #2
Generator Location Street 2:	Not reported
Generator Location City:	LOS GATOS
Generator Location Zip:	95032
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD981382732
Designated Facility Name:	ALTAMONT LANDFILL & RESOURCE RECOVERY FACILITY
Designated Facility Mail Street Number:	10840
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	10840 ALTAMONT PASS RD
Designated Facility Mail City:	LIVERMORE
Designated Facility Mail Zip:	94551
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	10840
Designated Facility Location Street 1:	10840 ALTAMONT PASS RD
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	LIVERMORE
Designated Facility Location Zip:	94551
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

State Waste:

Manifest Tracking Number:	019791174JJK
Waste Line Number:	1

CHIAPPARELLI CONSTRUCTION, INC. (Continued) **1024769445**

State Waste Code Owner: CA
State Waste Code: 151
State Waste: Asbestos-containing waste

Transporter:
Manifest Tracking Number: 019791174JJK
Transporter Line Number: 1
Transporter EPA ID: CAR000050815
Transporter Name: P W STEPHENS ENVIRONMENTAL INC

Manifest Tracking Number: 019791174JJK
Transporter Line Number: 2
Transporter EPA ID: CAR000272773
Transporter Name: UNI WASTE LLC

Waste Line:
Manifest Tracking Number: 019791174JJK
Waste Line Number: 1
U.S. DOT Hazardous Indicator: Y
U.S. DOT ID Number: NA2212
U.S. DOT Description: RQ, NA2212, Asbestos, 9, PG III
Non-Hazardous Waste Description: Not reported
Number of Containers: 6
Container Type Code: BA
Container Type Description: Burlap, cloth, paper, or plastic bags
Waste Quantity: 1
Quantity Unit of Measure Code: Y
Quantity Unit of Measure Description: Cubic Yards
Waste Quantity, in Tons: 0.84
Acute Waste Quantity, in Tons: 0
Non-Acute Waste Quantity, in Tons: 0.84
Waste Quantity, in Kilograms: 761.9052
Acute Waste Quantity, in Kilograms: 0
Non-Acute Waste Quantity, in Kilorgrams: 761.9052
Management Method Code: H132
Management Method Description: LANDFILL (WITH PRIOR TREATMENT AND/OR STABILIZATION)
Waste Residue Indicator: N
Quantity Discrepancy Indicator: N
Waste Type Discrepancy Indicator: N
Waste Density: Not reported
Waste Density Unit of Measure Code: Not reported
Waste Density Unit of Measure Description: Not reported
Form Code: Not reported
Form Code Description: Not reported
Source Code: Not reported
Source Code Description: Not reported
Waste Minimization Code: Not reported
Waste Minimization Code Description: Not reported
Consent Number: Not reported
EPA Waste Indicator: N

A2
NW
< 1/8
0.055 mi.
291 ft.

SERGIO POZO
208 WILLOW HILL CT
LOS GATOS, CA 95032

Site 1 of 3 in cluster A

RCRA NonGen / NLR

1028897558
CAC003259152

Relative:
Higher

Actual:
270 ft.

RCRA Listings:

Date Form Received by Agency:	20231101
Handler Name:	Sergio Pozo
Handler Address:	208 Willow Hill Ct
Handler City,State,Zip:	LOS GATOS, CA 95032
EPA ID:	CAC003259152
Contact Name:	SERGIO POZO
Contact Address:	208 WILLOW HILL CT
Contact City,State,Zip:	LOS GATOS, CA 95032
Contact Telephone:	669-291-5189
Contact Fax:	Not reported
Contact Email:	SERGIO.POZO@GMAIL.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	208 WILLOW HILL CT
Mailing City,State,Zip:	LOS GATOS, CA 95032
Owner Name:	Sergio Pozo
Owner Type:	Other
Operator Name:	Sergio Pozo
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No

SERGIO POZO (Continued) **1028897558**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20231101
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: SERGIO POZO	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	208 WILLOW HILL CT
Owner/Operator City,State,Zip:	LOS GATOS, CA 95032
Owner/Operator Telephone:	669-291-5189
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: SERGIO POZO	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	208 WILLOW HILL CT
Owner/Operator City,State,Zip:	LOS GATOS, CA 95032
Owner/Operator Telephone:	669-291-5189
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20231101
Handler Name: SERGIO POZO	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

SERGIO POZO (Continued) **1028897558**

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

A3 **DIANE LAFRANCE** **RCRA NonGen / NLR** **1026824441**
WNW **215 CHARTER OAKS CIRCLE** **E MANIFEST** **CAC003137475**
< 1/8 **LOS GATOS, CA 95032**
0.080 mi.
423 ft. **Site 2 of 3 in cluster A**

Relative:
Higher

Actual:
271 ft.

RCRA Listings:

Date Form Received by Agency:	20210902
Handler Name:	Diane Lafrance
Handler Address:	215 Charter Oaks Circle
Handler City,State,Zip:	LOS GATOS, CA 95032
EPA ID:	CAC003137475
Contact Name:	DIANE LAFRANCE
Contact Address:	215 CHARTER OAKS CIRCLE
Contact City,State,Zip:	LOS GATOS, CA 95032
Contact Telephone:	408-253-2983
Contact Fax:	Not reported
Contact Email:	DTLAFRANCE@SBCGLOBAL.NET
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	215 CHARTER OAKS CIRCLE
Mailing City,State,Zip:	LOS GATOS, CA 95032
Owner Name:	Diane Lafrance
Owner Type:	Other
Operator Name:	Diane Lafrance
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No

DIANE LAFRANCE (Continued) **1026824441**

Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20210913
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: DIANE LAFRANCE	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	215 CHARTER OAKS CIRCLE
Owner/Operator City,State,Zip:	LOS GATOS, CA 95032
Owner/Operator Telephone:	408-253-2983
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: DIANE LAFRANCE	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	215 CHARTER OAKS CIRCLE
Owner/Operator City,State,Zip:	LOS GATOS, CA 95032
Owner/Operator Telephone:	408-253-2983
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

DIANE LAFRANCE (Continued) **1026824441**

Historic Generators:
Receive Date: 20210902
Handler Name: DIANE LAFRANCE
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E MANIFEST:
Manifest Tracking Number: 020985991JJK
Last Updated Date: 20210930
Shipped Date: 20210909
Received Date: 20210909
Manifest Status: Signed
Submission Type: DataImage5Copy
Origin Type: Service
Generator EPA ID: CAC003137475
Generator Name: DIANE LAFRANCE
Generator Mail Street Number: Not reported
Generator Mail Street 1: 215 CHARTER OAKS CIRCLE
Generator Mail Street 2: Not reported
Generator Mail City: LOS GATOS
Generator Mail State: CA
Generator Mail Zip: 95032
Generator Location Street Number: Not reported
Generator Location Street 1: 215 CHARTER OAKS CIRCLE
Generator Location Street 2: Not reported
Generator Location City: LOS GATOS
Generator Location Zip: 95032
Generator Location State: CA
Generator Contact Company Name: Not reported
Designated Facility EPA ID: CAD981382732
Designated Facility Name: ALTAMONT LANDFILL & RESOURCE RECOVERY FACILITY
Designated Facility Mail Street Number: 10840
Designated Facility Mail Street 1: Not reported
Designated Facility Mail Street 2: ALTAMONT PASS RD
Designated Facility Mail City: LIVERMORE
Designated Facility Mail Zip: 94551

DIANE LAFRANCE (Continued) **1026824441**

Designated Facility Mail State:	CA
Designated Facility Location Street Number:	10840
Designated Facility Location Street 1:	ALTAMONT PASS RD
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	LIVERMORE
Designated Facility Location Zip:	94551
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

State Waste:

Manifest Tracking Number:	020985991JJK
Waste Line Number:	1
State Waste Code Owner:	CA
State Waste Code:	151
State Waste:	Asbestos-containing waste

Transporter:

Manifest Tracking Number:	020985991JJK
Transporter Line Number:	1
Transporter EPA ID:	CAL000450184
Transporter Name:	JWH ASBESTOS REMOVAL SERVICES

Manifest Tracking Number:	020985991JJK
Transporter Line Number:	2
Transporter EPA ID:	CAR000273680
Transporter Name:	FERMA GREENBOX INC

Waste Line:

Manifest Tracking Number:	020985991JJK
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	NA2212
U.S. DOT Description:	NA2212, Asbestos, 9, PG III, RQ
Non-Hazardous Waste Description:	Not reported
Number of Containers:	34
Container Type Code:	BA
Container Type Description:	Burlap, cloth, paper, or plastic bags
Waste Quantity:	3
Quantity Unit of Measure Code:	Y
Quantity Unit of Measure Description:	Cubic Yards
Waste Quantity, in Tons:	2.52
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	2.52
Waste Quantity, in Kilograms:	2285.7156
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	2285.7156
Management Method Code:	H132
Management Method Description:	LANDFILL (WITH PRIOR TREATMENT AND/OR STABILIZATION)
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported

DIANE LAFRANCE (Continued) **1026824441**

Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	N

B4 **BIPOLARICS INC** **PFAS ECHO** **1027332582**
NNW **N/A**
< 1/8 **LOS GATOS, CA**
0.085 mi.
448 ft. **Site 1 of 2 in cluster B**

Relative:
Higher

Actual:
267 ft.

PFAS ECHO:

Name:	BIPOLARICS INC
Address:	Not reported
City,State,Zip:	LOS GATOS, CA
Latitude:	37.256922
Longitude:	-121.962331
Count:	1
County:	SANTA CLARA
Status:	Active
Region:	09
Industry:	Electronics Industry
ECHO Facility Report:	https://echo.epa.gov/detailed-facility-report?fid=110001172374
Facility Percent Minority:	38.616
Facility Derived Tribes:	-
Facility Population:	5146.25
EPA Programs:	RCRA
Federal Facility:	No
Federal Agency:	-
Facility FIPS Code:	06085
Facility Indian Country Flag:	N
Facility Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Facility Derived HUC:	18050003
Facility Derived WBD:	180500030303
Facility Derived CD113:	18
Facility Derived CB2010:	060855072031016
Facility Major Flag:	-
Facility Active Flag:	Y
Facility Inspection Count:	0
Facility Date Last Inspection:	-
Facility Days Last Inspection:	-
Facility Informal Count:	0
Facility Date Last Informal Action:	-
Facility Formal Action Count:	0
Facility Date Last Formal Action:	-
Facility Total Penalties:	0
Facility Penalty Count:	-
Facility Date Last Penalty:	-
Facility Last Penalty AMT:	-
Facility QTRS With NC:	0
Facility Programs With SNC:	0
Facility Compliance Status:	No Violation Identified
Facility SNC Flag:	N
AIR Flag:	N

BIPOLARICS INC (Continued) **1027332582**

NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AIR IDS:	-
CAA Permit Types:	-
CAA NAICS:	-
CAA SICS:	-
NPDES IDS:	-
CWA Permit Types:	-
CWA NAICS:	-
CWA SICS:	-
RCRA IDS:	CAD982477044
RCRA Permit Types:	SQG
RCRA NAICS:	334413
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N
TRI IDS:	-
TRI Releases Transfers:	-
TRI On Site Releases:	-
TRI Off Site Transfers:	-
TRI Reporter:	-
Facility IMP Water Flag:	-
EJSCREEN Flag US:	N
EJSCREEN Report:	https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-121.962331,%22y%22:37.256922,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1

A5 **JEANNE TOREE** **RCRA NonGen / NLR** **1026715475**
NW **306 WILLOW HILL CT** **E MANIFEST** **CAC003103897**
< 1/8 **LOS GATOS, CA 95032**
0.088 mi.
466 ft. **Site 3 of 3 in cluster A**

Relative: **Higher**
Actual: **272 ft.**

RCRA Listings:

Date Form Received by Agency:	20210203
Handler Name:	Jeanne Toree
Handler Address:	306 Willow Hill Ct
Handler City,State,Zip:	LOS GATOS, CA 95032
EPA ID:	CAC003103897
Contact Name:	JEANNE TOREE
Contact Address:	306 WILLOW HILL CT
Contact City,State,Zip:	LOS GATOS, CA 95032
Contact Telephone:	408-374-9813
Contact Fax:	Not reported
Contact Email:	JOHN@JWHARS.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported

JEANNE TOREE (Continued) **1026715475**

State District Owner:	Not reported
State District:	Not reported
Mailing Address:	306 WILLOW HILL CT
Mailing City,State,Zip:	LOS GATOS, CA 95032
Owner Name:	Jeanne Toree
Owner Type:	Other
Operator Name:	Jeanne Toree
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20210226
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: JEANNE TOREE	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	306 WILLOW HILL CT

JEANNE TOREE (Continued) **1026715475**

Owner/Operator City,State,Zip: LOS GATOS, CA 95032
Owner/Operator Telephone: 408-374-9813
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: JEANNE TOREE
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 306 WILLOW HILL CT
Owner/Operator City,State,Zip: LOS GATOS, CA 95032
Owner/Operator Telephone: 408-374-9813
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20210203
Handler Name: JEANNE TOREE
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E MANIFEST:
Manifest Tracking Number: 021499036JJK
Last Updated Date: 20210318
Shipped Date: 20210217
Received Date: 20210222
Manifest Status: Signed
Submission Type: DataImage5Copy
Origin Type: Mail
Generator EPA ID: CAC003103897
Generator Name: JEANNE TOREE
Generator Mail Street Number: Not reported
Generator Mail Street 1: 306 WILLOW HILL CT

JEANNE TOREE (Continued) **1026715475**

Generator Mail Street 2:	Not reported
Generator Mail City:	LOS GATOS
Generator Mail State:	CA
Generator Mail Zip:	95032
Generator Location Street Number:	Not reported
Generator Location Street 1:	306 WILLOW HILL CT
Generator Location Street 2:	Not reported
Generator Location City:	LOS GATOS
Generator Location Zip:	95032
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD982042475
Designated Facility Name:	RECOLOGY HAY ROAD
Designated Facility Mail Street Number:	235
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	N FIRST ST
Designated Facility Mail City:	DIXON
Designated Facility Mail Zip:	95620
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	6426
Designated Facility Location Street 1:	HAY RD
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	VACAVILLE
Designated Facility Location Zip:	95687
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

State Waste:

Manifest Tracking Number:	021499036JJK
Waste Line Number:	1
State Waste Code Owner:	CA
State Waste Code:	151
State Waste:	Asbestos-containing waste

Transporter:

Manifest Tracking Number:	021499036JJK
Transporter Line Number:	1
Transporter EPA ID:	CAL000450184
Transporter Name:	JWH ASBESTOS REMOVAL SERVICES

Manifest Tracking Number:	021499036JJK
Transporter Line Number:	2
Transporter EPA ID:	CAR000273680
Transporter Name:	FERMA GREENBOX INC

Waste Line:

Manifest Tracking Number:	021499036JJK
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	NA2212
U.S. DOT Description:	RQ, NA2212, ASBESTOS, 9, PGIII
Non-Hazardous Waste Description:	Not reported
Number of Containers:	5
Container Type Code:	BA

JEANNE TOREE (Continued) **1026715475**

Container Type Description:	Burlap, cloth, paper, or plastic bags
Waste Quantity:	1
Quantity Unit of Measure Code:	Y
Quantity Unit of Measure Description:	Cubic Yards
Waste Quantity, in Tons:	0.84
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.84
Waste Quantity, in Kilograms:	761.9052
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	761.9052
Management Method Code:	H132
Management Method Description:	LANDFILL (WITH PRIOR TREATMENT AND/OR STABILIZATION)
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	N

C6 **SCVWD-VASONA METER FACILITY** **CERS HAZ WASTE** **S121749053**
NE **14545 OKA RD** **CUPA Listings** **N/A**
< 1/8 **LOS GATOS, CA 95032** **HWTS**
0.095 mi. **HAZNET**
501 ft. **Site 1 of 5 in cluster C** **CERS**

Relative: **Lower**

Actual: **262 ft.**

CERS HAZ WASTE:

Name:	SCVWD-VASONA METER FACILITY
Address:	14545 OKA RD
City,State,Zip:	LOS GATOS, CA 95032
Site ID:	165996
CERS ID:	10117009
CERS Description:	Hazardous Waste Generator

CUPA SANTA CLARA:

Name:	SCVWD-VASONA METER FACILITY
Address:	14545 OKA RD
City,State,Zip:	LOS GATOS, CA 95032
Region:	SANTA CLARA
Telephone:	4083958121
UDF Email:	Not reported
PE#:	2202
Program Description:	GENERATES <100 KG/YR OR USED OIL ONLY
Program Identifier:	DEH PERMIT-HAZ WASTE GENERATOR PROGRAM
Latitude:	37.255453
Longitude:	-121.958713
Record ID:	PR0314185
Facility ID:	FA0201848

Name: SCVWD-VASONA METER FACILITY

SCVWD-VASONA METER FACILITY (Continued) **S121749053**

Address:	14545 OKA RD
City,State,Zip:	LOS GATOS, CA 95032
Region:	SANTA CLARA
Telephone:	4083958121
UDF Email:	Not reported
PE#:	2011
Program Description:	APSA FACILITY-SPCC TEMPLATE (<10,000 GAL CAP)
Program Identifier:	DEH PERMIT-ABOVEGROUND PETROLEUM STORAGE ACT PROGRAM
Latitude:	37.255453
Longitude:	-121.958713
Record ID:	PR0399640
Facility ID:	FA0201848

HWTS:

Name:	SCVWD-VASONA METER FACILITY
Address:	14545 OKA RD
Address 2:	Not reported
City,State,Zip:	LOS GATOS, CA 95032
EPA ID:	CAL000038623
Inactive Date:	Not reported
Create Date:	02/15/1991
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	5750 ALMADEN EXPY
Mailing Address 2:	Not reported
Mailing City,State,Zip:	SAN JOSE, CA 95118
Owner Name:	SANTA CLARA VALLEY WATER DISTRICT
Owner Address:	5750 ALMADEN EXPY
Owner Address 2:	Not reported
Owner City,State,Zip:	SAN JOSE, CA 95118
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	PAUL THOMAS
Contact Address:	5750 ALMADEN EXPRESSWAY
Contact Address 2:	Not reported
City,State,Zip:	SAN JOSE, CA 95118
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Active
Facility Type:	PERMANENT
Category:	STATE
Latitude:	37.257433
Longitude:	-121.956888

NAICS:

EPA ID:	CAL000038623
Create Date:	2004-08-18 08:57:31.510
NAICS Code:	22131
NAICS Description:	Water Supply and Irrigation Systems
Issued EPA ID Date:	1991-02-15 00:00:00
Inactive Date:	Not reported
Facility Name:	SCVWD-VASONA METER FACILITY
Facility Address:	14545 OKA RD
Facility Address 2:	Not reported
Facility City:	LOS GATOS
Facility County:	Not reported
Facility State:	CA

SCVWD-VASONA METER FACILITY (Continued) **S121749053**

Facility Zip: 950321915

HAZNET:
Name: SCVWD-VASONA METER FACILITY
Address: 14545 OKA RD
Address 2: Not reported
City,State,Zip: LOS GATOS, CA 950321915
Contact: PAUL THOMAS
Telephone: 4086303227
Mailing Name: Not reported
Mailing Address: 5750 ALMADEN EXPY

Year: 2021
Gepaid: CAL000038623
TSD EPA ID: CAD982444481
CA Waste Code: 352 - Other organic solids
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.13

Year: 2021
Gepaid: CAL000038623
TSD EPA ID: CAD982444481
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.645

Year: 2020
Gepaid: CAL000038623
TSD EPA ID: NMD002208627
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.009

Year: 2020
Gepaid: CAL000038623
TSD EPA ID: NMD002208627
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.133

Year: 2020
Gepaid: CAL000038623
TSD EPA ID: NMD002208627
CA Waste Code: 551 - Laboratory waste chemicals
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.005

Additional Info:
Year: 2021

SCVWD-VASONA METER FACILITY (Continued) **S121749053**

Gen EPA ID:	CAL000038623
Shipment Date:	8/25/2020
Creation Date:	10/15/2020
Receipt Date:	9/9/2020
Manifest ID:	015283116FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC. DBA ACTENVIRO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NMD002208627
Trans Name:	ADVANCED CHEMICAL TREATMENT, LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0365
Waste Quantity:	73
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	4/28/2020
Creation Date:	6/4/2020
Receipt Date:	5/13/2020
Manifest ID:	014574992FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC. DBA ACTENVIRO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NMD002208627
Trans Name:	ADVANCED CHEMICAL TREATMENT, LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001,D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0035
Waste Quantity:	7
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	4/28/2020
Creation Date:	6/4/2020
Receipt Date:	5/13/2020
Manifest ID:	014574992FLE
Trans EPA ID:	CAR000070540

SCVWD-VASONA METER FACILITY (Continued) **S121749053**

Trans Name:	ADVANCED CHEMICAL TRANSPORT INC. DBA ACTENVIRO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NMD002208627
Trans Name:	ADVANCED CHEMICAL TREATMENT, LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0395
Waste Quantity:	79
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	4/28/2020
Creation Date:	6/4/2020
Receipt Date:	5/13/2020
Manifest ID:	014574992FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC. DBA ACTENVIRO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NMD002208627
Trans Name:	ADVANCED CHEMICAL TREATMENT, LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	12/22/2020
Creation Date:	1/13/2021
Receipt Date:	1/4/2021
Manifest ID:	015401952FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC. DBA ACTENVIRO
Trans 2 EPA ID:	CAD982523433
Trans 2 Name:	DILLARD ENVIRONMENTAL SERVICES
TSDF EPA ID:	NMD002208627
Trans Name:	ADVANCED CHEMICAL TREATMENT, LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

SCVWD-VASONA METER FACILITY (Continued) **S121749053**

Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001,D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0055
Waste Quantity:	11
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	12/22/2020
Creation Date:	1/13/2021
Receipt Date:	1/4/2021
Manifest ID:	015401952FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC. DBA ACTENVIRO
Trans 2 EPA ID:	CAD982523433
Trans 2 Name:	DILLARD ENVIRONMENTAL SERVICES
TSDF EPA ID:	NMD002208627
Trans Name:	ADVANCED CHEMICAL TREATMENT, LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.057
Waste Quantity:	114
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2020
Gen EPA ID:	CAL000038623
Shipment Date:	8/25/2020
Creation Date:	10/15/2020
Receipt Date:	9/9/2020
Manifest ID:	015283116FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC. DBA ACTENVIRO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NMD002208627
Trans Name:	ADVANCED CHEMICAL TREATMENT, LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

SCVWD-VASONA METER FACILITY (Continued) **S121749053**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0365
Waste Quantity:	73
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	4/28/2020
Creation Date:	6/4/2020
Receipt Date:	5/13/2020
Manifest ID:	014574992FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC. DBA ACTENVIRO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NMD002208627
Trans Name:	ADVANCED CHEMICAL TREATMENT, LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0395
Waste Quantity:	79
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	4/28/2020
Creation Date:	6/4/2020
Receipt Date:	5/13/2020
Manifest ID:	014574992FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC. DBA ACTENVIRO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NMD002208627
Trans Name:	ADVANCED CHEMICAL TREATMENT, LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001,D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0035
Waste Quantity:	7
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

SCVWD-VASONA METER FACILITY (Continued) **S121749053**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	4/28/2020
Creation Date:	6/4/2020
Receipt Date:	5/13/2020
Manifest ID:	014574992FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC. DBA ACTENVIRO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NMD002208627
Trans Name:	ADVANCED CHEMICAL TREATMENT, LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	12/22/2020
Creation Date:	1/13/2021
Receipt Date:	1/4/2021
Manifest ID:	015401952FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC. DBA ACTENVIRO
Trans 2 EPA ID:	CAD982523433
Trans 2 Name:	DILLARD ENVIRONMENTAL SERVICES
TSDF EPA ID:	NMD002208627
Trans Name:	ADVANCED CHEMICAL TREATMENT, LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.057
Waste Quantity:	114
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	12/22/2020
Creation Date:	1/13/2021
Receipt Date:	1/4/2021
Manifest ID:	015401952FLE

SCVWD-VASONA METER FACILITY (Continued) **S121749053**

Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC. DBA ACTENVIRO
Trans 2 EPA ID:	CAD982523433
Trans 2 Name:	DILLARD ENVIRONMENTAL SERVICES
TSDF EPA ID:	NMD002208627
Trans Name:	ADVANCED CHEMICAL TREATMENT, LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001,D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0055
Waste Quantity:	11
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CERS:

Name:	SCVWD-VASONA METER FACILITY
Address:	14545 OKA RD
City,State,Zip:	LOS GATOS, CA 95032
Site ID:	165996
CERS ID:	10117009
CERS Description:	Chemical Storage Facilities

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-02-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Ocupancy ID: 3693
Eval Division:	Santa Clara County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-05-2022
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Occupany ID: 3693
Eval Division:	Santa Clara County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-02-2023
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On-site to conduct a routine hazardous waste inspection. On-site today were Heather Malanog and Adam Galloway of Valley Water (SCVWD). The following hazardous waste is generated from equipment maintenance and is stored in the shop: -Oil-contaminated solids -Very small quantities of waste spray paints Additionally, observed the following in the

SCVWD-VASONA METER FACILITY (Continued) **S121749053**

shop: -1 part cleaner attached to an app. 40-50-gallon drum. According to Mr. Galloway, the parts cleaner has not be used or serviced for at least 2 years. Ensure that if serviced, that disposal documentation is retained. -An app. 8 ft x 4 ft spray painting station. The station is used only rarely (app. every few months) with the paint booth filter changed app. once per year. If painting frequency increases significantly, ensure that a hazardous waste determination is made of the spent paint booth filter. -1 x bead blaster. The blaster is used only rarely and has not been serviced for at least 2 years. Ensure that if that [Truncated]

Eval Division: Santa Clara County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-12-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Occupancy ID: 3693
Eval Division: Santa Clara County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-06-2023
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Occupany ID: 3693
Eval Division: Santa Clara County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-26-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Routine Hazardous Waste inspection began on 5/19/2016 and concluded on 5/26/2016. EPA ID# CAL000038623 (Active) CERS ID# 10117009 Last CERS submittal was made on 10/9/2015 Wastes generated: -Waste oil -Solids contaminated with oil -Waste paint related materials -Waste aerosols -Small quantities of other chemicals from water quality testing (pilot plant), such as sodium silicate, chlorine standard, potassium iodide, and antimony *Manifests observed for 2013, 2014, and 2015.
Eval Division: Santa Clara County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-24-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Occupancy ID: 3693
Eval Division: Santa Clara County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

SCVWD-VASONA METER FACILITY (Continued) **S121749053**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-30-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Occupancy ID: 3693
Eval Division: Santa Clara County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-01-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Occupancy ID: 3693
Eval Division: Santa Clara County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-22-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Occupany ID: 3693
Eval Division: Santa Clara County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Coordinates:
Site ID: 165996
Facility Name: SCVWD-VASONA METER FACILITY
Env Int Type Code: HWG
Program ID: 10117009
Coord Name: Not reported
Ref Point Type Desc: Unknown,
Latitude: 37.257045
Longitude: -121.957476

Affiliation:
Affiliation Type Desc: Identification Signer
Entity Name: Gregory Williams
Entity Title: Deputy Operating Officer
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 5750 ALMADEN EXPRESSWAY
Affiliation City: SAN JOSE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95118

SCVWD-VASONA METER FACILITY (Continued) **S121749053**

Affiliation Phone:	,
Affiliation Type Desc:	Document Preparer
Entity Name:	Heather Malanog/Jennifer Rojero
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Property Owner
Entity Name:	Santa Clara Valley Water District
Entity Title:	Not reported
Affiliation Address:	5750 Almaden Expressway
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95118
Affiliation Phone:	(408) 265-2600,
Affiliation Type Desc:	Legal Owner
Entity Name:	SANTA CLARA VALLEY WATER DIST
Entity Title:	Not reported
Affiliation Address:	5750 ALMADEN EXPRESSWAY
Affiliation City:	SAN JOSE
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95118
Affiliation Phone:	(408) 265-2600,
Affiliation Type Desc:	Operator
Entity Name:	Gregory WIlliams
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(408) 630-2867,
Affiliation Type Desc:	CUPA District
Entity Name:	Santa Clara County Environmental Health
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Heather Malanog
Entity Title:	Not reported
Affiliation Address:	5750 Almaden Expressway
Affiliation City:	San Jose

SCVWD-VASONA METER FACILITY (Continued) **S121749053**

Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95118
Affiliation Phone:	,
Affiliation Type Desc:	Parent Corporation
Entity Name:	Santa Clara Valley Water District
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

C7 **SCVWD/SANTA CLARA VALLEY WATER DISTRICT** **RCRA NonGen / NLR** **1024787877**
NE **14545 OKA RD** **E MANIFEST** **CAL000038623**
< 1/8 **LOS GATOS, CA 95032**
0.095 mi.
501 ft. **Site 2 of 5 in cluster C**

Relative: **Lower**
Actual: **262 ft.**

RCRA Listings:

Date Form Received by Agency:	19910215
Handler Name:	Scvwd/Santa Clara Valley Water District
Handler Address:	14545 Oka Rd
Handler City,State,Zip:	LOS GATOS, CA 95032-1915
EPA ID:	CAL000038623
Contact Name:	PAUL THOMAS
Contact Address:	5750 ALMADEN EXPRESSWAY
Contact City,State,Zip:	SAN JOSE, CA 95118
Contact Telephone:	408-630-3227
Contact Fax:	Not reported
Contact Email:	PTHOMAS@VALLEYWATER.ORG
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	5750 ALMADEN EXPY
Mailing City,State,Zip:	SAN JOSE, CA 95118
Owner Name:	Santa Clara Valley Water District
Owner Type:	Other
Operator Name:	Paul Thomas
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No

SCVWD/SANTA CLARA VALLEY WATER DISTRICT (Continued) **1024787877**

Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: SANTA CLARA VALLEY WATER DISTRICT	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5750 ALMADEN EXPY
Owner/Operator City,State,Zip:	SAN JOSE, CA 95118
Owner/Operator Telephone:	408-265-2600
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: PAUL THOMAS	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5750 ALMADEN EXPRESSWAY
Owner/Operator City,State,Zip:	SAN JOSE, CA 95118
Owner/Operator Telephone:	408-630-3227
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported

SCVWD/SANTA CLARA VALLEY WATER DISTRICT (Continued) **1024787877**

Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19910215
Handler Name: SCVWD/SANTA CLARA VALLEY WATER DISTRICT
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E MANIFEST:
Manifest Tracking Number: 013288021FLE
Last Updated Date: 20191121
Shipped Date: 20190415
Received Date: 20190430
Manifest Status: Signed
Submission Type: DataImage5Copy
Origin Type: Web
Generator EPA ID: CAL000038623
Generator Name: SCVWD/SANTA CLARA VALLEY WATER DISTRICT
Generator Mail Street Number: Not reported
Generator Mail Street 1: 14545 OKA RD
Generator Mail Street 2: Not reported
Generator Mail City: LOS GATOS
Generator Mail State: CA
Generator Mail Zip: 95032-1915
Generator Location Street Number: Not reported
Generator Location Street 1: 5750 ALMADEN EXPY
Generator Location Street 2: Not reported
Generator Location City: SAN JOSE
Generator Location Zip: 95118
Generator Location State: CA
Generator Contact Company Name: Not reported
Designated Facility EPA ID: NMD002208627
Designated Facility Name: ADVANCED CHEMICAL TREATMENT, LLC
Designated Facility Mail Street Number: Not reported
Designated Facility Mail Street 1: Not reported
Designated Facility Mail Street 2: 6133 EDITH BLVD NE

SCVWD/SANTA CLARA VALLEY WATER DISTRICT (Continued) **1024787877**

Designated Facility Mail City:	ALBUQUERQUE
Designated Facility Mail Zip:	87107
Designated Facility Mail State:	NM
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	6133 EDITH BLVD NE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	ALBUQUERQUE
Designated Facility Location Zip:	87107
Designated Facility Location State:	NM
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	023719662JJK
Last Updated Date:	20221103
Shipped Date:	20220823
Received Date:	20220914
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000038623
Generator Name:	SCVWD - VASONA METER FACILITY
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	14545 OKA RD
Generator Mail Street 2:	Not reported
Generator Mail City:	LOS GATOS
Generator Mail State:	CA
Generator Mail Zip:	95032
Generator Location Street Number:	Not reported
Generator Location Street 1:	5750 Almaden Expy
Generator Location Street 2:	Not reported
Generator Location City:	San Jose
Generator Location Zip:	95118
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD982444481
Designated Facility Name:	HAZMAT TSDF INC, FORMER FILTER RECYCLING SERVICES INC
Designated Facility Mail Street Number:	180
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	WEST MONTE AVENUE
Designated Facility Mail City:	RIALTO
Designated Facility Mail Zip:	92316
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	180
Designated Facility Location Street 1:	WEST MONTE AVENUE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	RIALTO
Designated Facility Location Zip:	92316
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	023721002JJK
Last Updated Date:	20220516
Shipped Date:	20220412
Received Date:	20220429

SCVWD/SANTA CLARA VALLEY WATER DISTRICT (Continued) **1024787877**

Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000038623
Generator Name:	SCVWD - VASONA METER FACILITY
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	14545 OKA RD
Generator Mail Street 2:	Not reported
Generator Mail City:	LOS GATOS
Generator Mail State:	CA
Generator Mail Zip:	95032
Generator Location Street Number:	Not reported
Generator Location Street 1:	5750 Almaden Expy
Generator Location Street 2:	Not reported
Generator Location City:	San Jose
Generator Location Zip:	95118
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD982444481
Designated Facility Name:	HAZMAT TSDF INC, FORMER FILTER RECYCLING SERVICES INC
Designated Facility Mail Street Number:	180
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	WEST MONTE AVENUE
Designated Facility Mail City:	RIALTO
Designated Facility Mail Zip:	92316
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	180
Designated Facility Location Street 1:	WEST MONTE AVENUE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	RIALTO
Designated Facility Location Zip:	92316
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	021979968JJK
Last Updated Date:	20211008
Shipped Date:	20210831
Received Date:	20210927
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000038623
Generator Name:	SCVWD - VASONA METER FACILITY
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	14545 OKA RD
Generator Mail Street 2:	Not reported
Generator Mail City:	LOS GATOS
Generator Mail State:	CA
Generator Mail Zip:	95032
Generator Location Street Number:	Not reported
Generator Location Street 1:	5750 Almaden Expy
Generator Location Street 2:	Not reported
Generator Location City:	San Jose
Generator Location Zip:	95118
Generator Location State:	CA

SCVWD/SANTA CLARA VALLEY WATER DISTRICT (Continued) **1024787877**

Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD982444481
Designated Facility Name:	HAZMAT TSDF INC, FORMER FILTER RECYCLING SERVICES INC
Designated Facility Mail Street Number:	180
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	WEST MONTE AVENUE
Designated Facility Mail City:	RIALTO
Designated Facility Mail Zip:	92316
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	180
Designated Facility Location Street 1:	WEST MONTE AVENUE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	RIALTO
Designated Facility Location Zip:	92316
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	014574992FLE
Last Updated Date:	20200605
Shipped Date:	20200428
Received Date:	20200513
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Web
Generator EPA ID:	CAL000038623
Generator Name:	SCVWD/SANTA CLARA VALLEY WATER DISTRICT
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	14545 OKA RD
Generator Mail Street 2:	Not reported
Generator Mail City:	LOS GATOS
Generator Mail State:	CA
Generator Mail Zip:	95032-1915
Generator Location Street Number:	Not reported
Generator Location Street 1:	5750 ALMADEN EXPY
Generator Location Street 2:	Not reported
Generator Location City:	SAN JOSE
Generator Location Zip:	95118
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NMD002208627
Designated Facility Name:	ADVANCED CHEMICAL TREATMENT, LLC
Designated Facility Mail Street Number:	6133
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	EDITH BLVD NE
Designated Facility Mail City:	ALBUQUERQUE
Designated Facility Mail Zip:	87107
Designated Facility Mail State:	NM
Designated Facility Location Street Number:	6133
Designated Facility Location Street 1:	EDITH BLVD NE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	ALBUQUERQUE
Designated Facility Location Zip:	87107
Designated Facility Location State:	NM
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N

SCVWD/SANTA CLARA VALLEY WATER DISTRICT (Continued) **1024787877**

Rejection Indicator:	N
Manifest Tracking Number:	015283116FLE
Last Updated Date:	20201016
Shipped Date:	20200825
Received Date:	20200909
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Web
Generator EPA ID:	CAL000038623
Generator Name:	SCVWD/SANTA CLARA VALLEY WATER DISTRICT
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	14545 OKA RD
Generator Mail Street 2:	Not reported
Generator Mail City:	LOS GATOS
Generator Mail State:	CA
Generator Mail Zip:	95032-1915
Generator Location Street Number:	Not reported
Generator Location Street 1:	5750 ALMADEN EXPY
Generator Location Street 2:	Not reported
Generator Location City:	SAN JOSE
Generator Location Zip:	95118
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NMD002208627
Designated Facility Name:	ADVANCED CHEMICAL TREATMENT, LLC
Designated Facility Mail Street Number:	6133
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	EDITH BLVD NE
Designated Facility Mail City:	ALBUQUERQUE
Designated Facility Mail Zip:	87107
Designated Facility Mail State:	NM
Designated Facility Location Street Number:	6133
Designated Facility Location Street 1:	EDITH BLVD NE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	ALBUQUERQUE
Designated Facility Location Zip:	87107
Designated Facility Location State:	NM
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N
Manifest Tracking Number:	013819229FLE
Last Updated Date:	20191205
Shipped Date:	20190827
Received Date:	20190906
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Web
Generator EPA ID:	CAL000038623
Generator Name:	SCVWD/SANTA CLARA VALLEY WATER DISTRICT
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	14545 OKA RD
Generator Mail Street 2:	Not reported
Generator Mail City:	LOS GATOS
Generator Mail State:	CA
Generator Mail Zip:	95032-1915

SCVWD/SANTA CLARA VALLEY WATER DISTRICT (Continued) **1024787877**

Generator Location Street Number:	Not reported
Generator Location Street 1:	5750 ALMADEN EXPY
Generator Location Street 2:	Not reported
Generator Location City:	SAN JOSE
Generator Location Zip:	95118
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NMD002208627
Designated Facility Name:	ADVANCED CHEMICAL TREATMENT, LLC
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	6133 EDITH BLVD NE
Designated Facility Mail City:	ALBUQUERQUE
Designated Facility Mail Zip:	87107
Designated Facility Mail State:	NM
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	6133 EDITH BLVD NE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	ALBUQUERQUE
Designated Facility Location Zip:	87107
Designated Facility Location State:	NM
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	015401952FLE
Last Updated Date:	20210113
Shipped Date:	20201222
Received Date:	20210104
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Web
Generator EPA ID:	CAL000038623
Generator Name:	SCVWD/SANTA CLARA VALLEY WATER DISTRICT
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	14545 OKA RD
Generator Mail Street 2:	Not reported
Generator Mail City:	LOS GATOS
Generator Mail State:	CA
Generator Mail Zip:	95032-1915
Generator Location Street Number:	Not reported
Generator Location Street 1:	5750 ALMADEN EXPY
Generator Location Street 2:	Not reported
Generator Location City:	SAN JOSE
Generator Location Zip:	95118
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NMD002208627
Designated Facility Name:	ADVANCED CHEMICAL TREATMENT, LLC
Designated Facility Mail Street Number:	6133
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	EDITH BLVD NE
Designated Facility Mail City:	ALBUQUERQUE
Designated Facility Mail Zip:	87107
Designated Facility Mail State:	NM
Designated Facility Location Street Number:	6133
Designated Facility Location Street 1:	EDITH BLVD NE

SCVWD/SANTA CLARA VALLEY WATER DISTRICT (Continued) **1024787877**

Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	ALBUQUERQUE
Designated Facility Location Zip:	87107
Designated Facility Location State:	NM
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N
Manifest Tracking Number:	023718249JJK
Last Updated Date:	20230118
Shipped Date:	20221208
Received Date:	20230105
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000038623
Generator Name:	SCVWD - VASONA METER FACILITY
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	14545 OKA RD
Generator Mail Street 2:	Not reported
Generator Mail City:	LOS GATOS
Generator Mail State:	CA
Generator Mail Zip:	95032
Generator Location Street Number:	Not reported
Generator Location Street 1:	5750 Almaden Expy
Generator Location Street 2:	Not reported
Generator Location City:	San Jose
Generator Location Zip:	95118
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD982444481
Designated Facility Name:	HAZMAT TSDF INC, FORMER FILTER RECYCLING SERVICES INC
Designated Facility Mail Street Number:	180
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	WEST MONTE AVENUE
Designated Facility Mail City:	RIALTO
Designated Facility Mail Zip:	92316
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	180
Designated Facility Location Street 1:	WEST MONTE AVENUE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	RIALTO
Designated Facility Location Zip:	92316
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N
Manifest Tracking Number:	011859019FLE
Last Updated Date:	20190930
Shipped Date:	20180814
Received Date:	20180906
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Web
Generator EPA ID:	CAL000038623
Generator Name:	SCVWD/SANTA CLARA VALLEY WATER DISTRICT

SCVWD/SANTA CLARA VALLEY WATER DISTRICT (Continued) **1024787877**

Generator Mail Street Number:	Not reported
Generator Mail Street 1:	14545 OKA RD
Generator Mail Street 2:	Not reported
Generator Mail City:	LOS GATOS
Generator Mail State:	CA
Generator Mail Zip:	95032-1915
Generator Location Street Number:	Not reported
Generator Location Street 1:	5750 ALMADEN EXPY
Generator Location Street 2:	Not reported
Generator Location City:	SAN JOSE
Generator Location Zip:	95118
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NMD002208627
Designated Facility Name:	ADVANCED CHEMICAL TREATMENT, LLC
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	6133 EDITH BLVD NE
Designated Facility Mail City:	ALBUQUERQUE
Designated Facility Mail Zip:	87107
Designated Facility Mail State:	NM
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	6133 EDITH BLVD NE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	ALBUQUERQUE
Designated Facility Location Zip:	87107
Designated Facility Location State:	NM
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	015774878FLE
Last Updated Date:	20210721
Shipped Date:	20210427
Received Date:	20210507
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Web
Generator EPA ID:	CAL000038623
Generator Name:	SCVWD/SANTA CLARA VALLEY WATER DISTRICT
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	14545 OKA RD
Generator Mail Street 2:	Not reported
Generator Mail City:	LOS GATOS
Generator Mail State:	CA
Generator Mail Zip:	95032-1915
Generator Location Street Number:	Not reported
Generator Location Street 1:	5750 ALMADEN EXPY
Generator Location Street 2:	Not reported
Generator Location City:	SAN JOSE
Generator Location Zip:	95118
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	AZR000520478
Designated Facility Name:	ENVIRONMENTAL WASTE SOLUTIONS, INC.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported

SCVWD/SANTA CLARA VALLEY WATER DISTRICT (Continued) **1024787877**

Designated Facility Mail Street 2:	PO BOX 626
Designated Facility Mail City:	LOMA LINDA
Designated Facility Mail Zip:	92354
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	31915 INDUSTRIAL LANE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	PARKER
Designated Facility Location Zip:	85344
Designated Facility Location State:	AZ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Federal Waste:

Manifest Tracking Number:	012674964FLE
Waste Line Number:	1
Federal Waste Code:	D001
Federal Waste:	IGNITABLE WASTE
Manifest Tracking Number:	012674964FLE
Waste Line Number:	1
Federal Waste Code:	D035
Federal Waste:	METHYL ETHYL KETONE
Manifest Tracking Number:	012674964FLE
Waste Line Number:	3
Federal Waste Code:	D001
Federal Waste:	IGNITABLE WASTE

State Waste:

Manifest Tracking Number:	012674964FLE
Waste Line Number:	1
State Waste Code Owner:	CA
State Waste Code:	331
State Waste:	Off-specification, aged, or surplus organics
Manifest Tracking Number:	012674964FLE
Waste Line Number:	2
State Waste Code Owner:	CA
State Waste Code:	352
State Waste:	Other organic solids
Manifest Tracking Number:	012674964FLE
Waste Line Number:	3
State Waste Code Owner:	CA
State Waste Code:	551
State Waste:	Laboratory waste chemicals

Transporter:

Manifest Tracking Number:	012674964FLE
Transporter Line Number:	1
Transporter EPA ID:	CAR000070540
Transporter Name:	ADVANCED CHEMICAL TRANSPORT INC. DBA ACTENVIRO

SCVWD/SANTA CLARA VALLEY WATER DISTRICT (Continued) **1024787877**

Waste Line:

Manifest Tracking Number:	012674964FLE
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	UN1950
U.S. DOT Description:	UN1950, WASTE AEROSOLS, [FLAMMABLE, (EACH NOT EXCEEDING 1 L CAPACITY)], 2.1
Non-Hazardous Waste Description:	Not reported
Number of Containers:	1
Container Type Code:	DF
Container Type Description:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	12
Quantity Unit of Measure Code:	P
Quantity Unit of Measure Description:	Pounds
Waste Quantity, in Tons:	0.006
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.006
Waste Quantity, in Kilograms:	5.44218
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	5.44218
Management Method Code:	H141
Management Method Description:	STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	Y

Manifest Tracking Number:	012674964FLE
Waste Line Number:	2
U.S. DOT Hazardous Indicator:	N
U.S. DOT ID Number:	Not reported
U.S. DOT Description:	Not reported
Non-Hazardous Waste Description:	NON-RCRA HAZARDOUS WASTE SOLID (COTTON RAGS, MOTOR OIL)
Number of Containers:	1
Container Type Code:	DF
Container Type Description:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	69
Quantity Unit of Measure Code:	P
Quantity Unit of Measure Description:	Pounds
Waste Quantity, in Tons:	0.0345
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.0345
Waste Quantity, in Kilograms:	31.292536
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	31.292536
Management Method Code:	H141
Management Method Description:	STORAGE, BULKING AND/OR TRANSFER OFF SITE

SCVWD/SANTA CLARA VALLEY WATER DISTRICT (Continued) **1024787877**

Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	N
Manifest Tracking Number:	012674964FLE
Waste Line Number:	3
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	UN1992
U.S. DOT Description:	UN1992, WASTE FLAMMABLE LIQUIDS, TOXIC, N.O.S. (NAPTHA PENTANE, TOLUENE, XYLENE, ALIPHATIC HYDROCARBONS), 3 (6.1), PGII
Non-Hazardous Waste Description:	Not reported
Number of Containers:	1
Container Type Code:	DF
Container Type Description:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	18
Quantity Unit of Measure Code:	P
Quantity Unit of Measure Description:	Pounds
Waste Quantity, in Tons:	0.009
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.009
Waste Quantity, in Kilograms:	8.16327
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	8.16327
Management Method Code:	H141
Management Method Description:	STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	Y

Click this hyperlink while viewing on your computer to access
4 additional US EManifest: record(s) in the EDR Site Report.

C8 **SANTA CLARA VALLEY WATER DISTRICT** **AST** **A100337671**
NE **14545 OKA RD** **N/A**
< 1/8 **LOS GATOS, CA**
0.095 mi.
501 ft. **Site 3 of 5 in cluster C**

Relative: **Lower**
Actual: **262 ft.**

AST:

Name:	SANTA CLARA VALLEY WATER DISTRICT
Address:	14545 OKA RD
City/Zip:	LOS GATOS,
Certified Unified Program Agencies:	Santa Clara County
Owner:	SANTA CLARA VALLEY WATER DIST.
Total Gallons:	2,000
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

C9 **LOS GATOS SWIM & RACQUET CLUB** **SWEEPS UST** **S101625161**
NE **14634 OKA RD** **HIST UST** **N/A**
< 1/8 **LOS GATOS, CA 95030** **CA FID UST**
0.098 mi.
517 ft. **Site 4 of 5 in cluster C**

Relative: **Lower**
Actual: **262 ft.**

SWEEPS UST:

Name:	LOS GATOS SWIM & RACQUET CLUB
Address:	14634 OKA RD
City:	LOS GATOS
Status:	Not reported
Comp Number:	64990
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	43-003-064990-000001
Tank Status:	Not reported
Capacity:	1
Active Date:	Not reported

LOS GATOS SWIM & RACQUET CLUB (Continued) **S101625161**

Tank Use: M.V. FUEL
STG: PRODUCT
Content: UNKNOWN
Number Of Tanks: 1

HIST UST:
Name: LOS GATOS SWIM AND RACQUET CLUB
Address: 14634 OKA RD
City,State,Zip: LOS GATOS, CA 95030
File Number: 00020b2c
URL: https://documents.geotracker.waterboards.ca.gov/ustpdfs/pdf/00020b2c.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

CA FID UST:
Facility ID: 43011902
Regulated By: UTNKI
Regulated ID: 00064990
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4083562136
Mail To: Not reported
Mailing Address: 14700 3KA RD
Mailing Address 2: Not reported
Mailing City,St,Zip: LOS GATOS 95030
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

C10 **LOS GATOS SWIM & RACQUET CLUB** **HIST UST** **U001601397**
NE **14634 OKA RD** **N/A**
< 1/8 **LOS GATOS, CA 95030**
0.098 mi.
517 ft. **Site 5 of 5 in cluster C**

Relative: **Lower**
Actual: **262 ft.**

HIST UST:

Name:	LOS GATOS SWIM & RACQUET CLUB
Address:	14634 OKA RD
City,State,Zip:	LOS GATOS, CA 95030
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000064990
Facility Type:	Other
Other Type:	SPORTS FACILITY
Contact Name:	RONALD DENEVI
Telephone:	4083562136
Owner Name:	CAL TRANS
Owner Address:	150 OAK STREET
Owner City,St,Zip:	SAN FRANCISCO, CA 94120
Total Tanks:	0000
Tank Num:	001
Container Num:	ROSS 6
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	None

D11 **CALPATH MEDICAL ASSOCIATES** **RCRA-SQG** **1014915589**
NW **100 C ALBRIGHT WAY** **CAR000220160**
< 1/8 **LOS GATOS, CA 95032**
0.102 mi.
539 ft. **Site 1 of 8 in cluster D**

Relative: **Higher**
Actual: **271 ft.**

RCRA Listings:

Date Form Received by Agency:	20110606
Handler Name:	Calpath Medical Associates
Handler Address:	100 C Albright Way
Handler City,State,Zip:	LOS GATOS, CA 95032-1837
EPA ID:	CAR000220160
Contact Name:	SCOTT J HOGGARD
Contact Address:	100 C ALBRIGHT WAY
Contact City,State,Zip:	LOS GATOS, CA 95032-1837
Contact Telephone:	408-866-5227 124
Contact Fax:	408-866-5228
Contact Email:	SCOTT@CALPATH.COM
Contact Title:	LABORATORY DEPT MGR
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported

CALPATH MEDICAL ASSOCIATES (Continued) **1014915589**

Mailing Address:	100 C ALBRIGHT WAY
Mailing City,State,Zip:	LOS GATOS, CA 95032-1837
Owner Name:	Calpath Medical Associates
Owner Type:	Private
Operator Name:	Calpath Medical Associates
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20110621
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	U002
Waste Description:	2-Propanone (I) (Or) Acetone (I)
Waste Code:	U044
Waste Description:	Chloroform (Or) Methane, Trichloro-
Waste Code:	U122
Waste Description:	Formaldehyde

CALPATH MEDICAL ASSOCIATES (Continued) **1014915589**

Waste Code: U154
Waste Description: Methanol (I) (Or) Methyl Alcohol (I)

Waste Code: U239
Waste Description: Benzene, Dimethyl- (I,T) (Or) Xylene (I)

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: CALPATH MEDICAL ASSOCIATES
Legal Status: Private
Date Became Current: 19800101
Date Ended Current: Not reported
Owner/Operator Address: 100 C ALBRIGHT WAY
Owner/Operator City,State,Zip: LOS GATOS, CA 95032
Owner/Operator Telephone: 408-866-5227
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: CALPATH MEDICAL ASSOCIATES
Legal Status: Private
Date Became Current: 19800101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20110606
Handler Name: CALPATH MEDICAL ASSOCIATES
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 62151
NAICS Description: MEDICAL AND DIAGNOSTIC LABORATORIES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

D12 **COMPUGRAPHICS USA** **PFAS ECHO** **1027344631**
NW **N/A**
1/8-1/4 **LOS GATOS, CA**
0.133 mi.
701 ft. **Site 2 of 8 in cluster D**

Relative:
Higher

Actual:
280 ft.

PFAS ECHO:

Name:	COMPUGRAPHICS USA
Address:	Not reported
City,State,Zip:	LOS GATOS, CA
Latitude:	37.256644
Longitude:	-121.963786
Count:	1
County:	SANTA CLARA
Status:	Active
Region:	09
Industry:	Electronics Industry
ECHO Facility Report:	https://echo.epa.gov/detailed-facility-report?fid=110018991457
Facility Percent Minority:	38.521
Facility Derived Tribes:	-
Facility Population:	5057.02
EPA Programs:	RCRA
Federal Facility:	No
Federal Agency:	-
Facility FIPS Code:	06085
Facility Indian Country Flag:	N
Facility Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Facility Derived HUC:	18050003
Facility Derived WBD:	180500030303
Facility Derived CD113:	18
Facility Derived CB2010:	060855072031017
Facility Major Flag:	-
Facility Active Flag:	Y
Facility Inspection Count:	0
Facility Date Last Inspection:	8/4/2010
Facility Days Last Inspection:	4,882
Facility Informal Count:	0
Facility Date Last Informal Action:	8/4/2010
Facility Formal Action Count:	0
Facility Date Last Formal Action:	-
Facility Total Penalties:	0
Facility Penalty Count:	-
Facility Date Last Penalty:	-
Facility Last Penalty AMT:	-
Facility QTRS With NC:	0
Facility Programs With SNC:	0
Facility Compliance Status:	No Violation Identified
Facility SNC Flag:	N
AIR Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AIR IDS:	-
CAA Permit Types:	-
CAA NAICS:	-
CAA SICS:	-
NPDES IDS:	-

COMPUGRAPHICS USA (Continued) **1027344631**

CWA Permit Types:	-
CWA NAICS:	-
CWA SICS:	-
RCRA IDS:	CAD102100922
RCRA Permit Types:	SQG
RCRA NAICS:	334413
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N
TRI IDS:	-
TRI Releases Transfers:	-
TRI On Site Releases:	-
TRI Off Site Transfers:	-
TRI Reporter:	-
Facility IMP Water Flag:	-
EJSCREEN Flag US:	N
EJSCREEN Report:	https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-121.963786,%22y%22:37.256644,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1

B13 **AQUEOUS LIMITED PARTNERSHIP** **RCRA-SQG** **1000399862**
NNW **141 ALBRIGHT WAY STE A** **FINDS** **CAD982040438**
1/8-1/4 **LOS GATOS, CA 95030** **ECHO**
0.134 mi.
708 ft. **Site 2 of 2 in cluster B**

Relative: **Higher**
Actual: **277 ft.**

RCRA Listings:

Date Form Received by Agency:	19940902
Handler Name:	Aqueous Limited Partnership
Handler Address:	141 Albright Way Ste A
Handler City,State,Zip:	LOS GATOS, CA 95030
EPA ID:	CAD982040438
Contact Name:	SCOTT RACKEY
Contact Address:	141 ALBRIGHT WAY STE A
Contact City,State,Zip:	LOS GATOS, CA 95030
Contact Telephone:	408-379-1900
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Ca
State District:	2
Mailing Address:	141 ALBRIGHT WAY STE A
Mailing City,State,Zip:	LOS GATOS, CA 95030
Owner Name:	Pridco Limited Partnership
Owner Type:	Private
Operator Name:	Not Required
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No

AQUEOUS LIMITED PARTNERSHIP (Continued) **1000399862**

Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: PRIDCO LIMITED PARTNERSHIP	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1655 N FT MYER DR STE 700
Owner/Operator City,State,Zip:	ARLINGTON, VA 22209
Owner/Operator Telephone:	703-351-5272
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: NOT REQUIRED	
Legal Status:	Private
Date Became Current:	Not reported

AQUEOUS LIMITED PARTNERSHIP (Continued) **1000399862**

Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19940902
Handler Name:	AQUEOUS LIMITED PARTNERSHIP
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Ca
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

FINDS:

Registry ID:	110002785424

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000399862
Registry ID:	110002785424
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002785424
Name:	AQUEOUS LIMITED PARTNERSHIP
Address:	141 ALBRIGHT WAY STE A
City,State,Zip:	LOS GATOS, CA 95030

E14
NNW
1/8-1/4
0.140 mi.
739 ft.

PENINSULA HISTOPATHOLOGY LAB INC
160 ALBRIGHT WAY
LOS GATOS, CA 95032

Site 1 of 8 in cluster E

RCRA-SQG **1007200749**
CAR000151217

Relative:
Higher

Actual:
280 ft.

RCRA Listings:

Date Form Received by Agency:	20050114
Handler Name:	Peninsula Histopathology Lab Inc
Handler Address:	160 Albright Way
Handler City,State,Zip:	LOS GATOS, CA 95032
EPA ID:	CAR000151217
Contact Name:	NILO LAPENA
Contact Address:	160 ALBRIGHT WAY
Contact City,State,Zip:	LOS GATOS, CA 95032
Contact Telephone:	408-866-8377
Contact Fax:	Not reported
Contact Email:	PENLAB7@AOL.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	160 ALBRIGHT WAY
Mailing City,State,Zip:	LOS GATOS, CA 95032
Owner Name:	Peninsula Histopathology Lab Inc
Owner Type:	Private
Operator Name:	Peninsula Histopath Lab
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No

PENINSULA HISTOPATHOLOGY LAB INC (Continued) **1007200749**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20050126
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	Ignitable Waste

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: MIKE PANGANIBAN	
Legal Status:	Private
Date Became Current:	19751001
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: PENINSULA HISTOPATH LAB	
Legal Status:	Private
Date Became Current:	19800214
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: MIKE PANGANIBAN	
Legal Status:	Private
Date Became Current:	19751001
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported

PENINSULA HISTOPATHOLOGY LAB INC (Continued) **1007200749**

Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: PENINSULA HISTOPATHOLOGY LAB INC
Legal Status: Private
Date Became Current: 19800214
Date Ended Current: Not reported
Owner/Operator Address: 160 ALBRIGHT WAY
Owner/Operator City,State,Zip: LOS GATOS, CA 95032
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20040213
Handler Name: PENINSULA HISTOPATHOLOGY LAB INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20050114
Handler Name: PENINSULA HISTOPATHOLOGY LAB INC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 54199
NAICS Description: ALL OTHER PROFESSIONAL, SCIENTIFIC, AND TECHNICAL SERVICES

NAICS Code: 621511
NAICS Description: MEDICAL LABORATORIES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E15
NNW
1/8-1/4
0.140 mi.
739 ft.

PENINSULA HISTOPATHOLOGY LAB INC
160 ALBRIGHT WY STE A
LOS GATOS, CA 95032

Site 2 of 8 in cluster E

CERS HAZ WASTE
CERS

S121788046
N/A

Relative:
Higher

Actual:
280 ft.

CERS HAZ WASTE:

Name:	PENINSULA HISTOPATHOLOGY LAB INC
Address:	160 ALBRIGHT WY STE A
City,State,Zip:	LOS GATOS, CA 95032
Site ID:	56015
CERS ID:	10346566
CERS Description:	Hazardous Waste Generator

CERS:

Name:	PENINSULA HISTOPATHOLOGY LAB INC
Address:	160 ALBRIGHT WY STE A
City,State,Zip:	LOS GATOS, CA 95032
Site ID:	56015
CERS ID:	10346566
CERS Description:	Chemical Storage Facilities

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Santa Clara County Environmental Health
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400,

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	160 ALBRIGHT WY SUITE A
Affiliation City:	LOS GATOS
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95032
Affiliation Phone:	,

Affiliation Type Desc:	Legal Owner
Entity Name:	PANGANIBAN, MIKE
Entity Title:	Not reported
Affiliation Address:	160 ALBRIGHT WY SUITE A
Affiliation City:	LOS GATOS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95032
Affiliation Phone:	(408) 866-8377,

Affiliation Type Desc:	Parent Corporation
Entity Name:	PENINSULA HISTOPATHOLOGY LAB INC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported

PENINSULA HISTOPATHOLOGY LAB INC (Continued) **S121788046**

Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

E16 **FET/TEST INC** **RCRA-SQG** **1000141306**
NNW **160 ALBRIGHT WAY SUITE E** **FINDS** **CAD081448920**
1/8-1/4 **LOS GATOS, CA 95030** **ECHO**
0.140 mi.
739 ft. **Site 3 of 8 in cluster E**

Relative: **Higher**
Actual: **280 ft.**

RCRA Listings:

Date Form Received by Agency:	19960901
Handler Name:	Fet/Test Inc
Handler Address:	Albright Way Suite E
Handler City,State,Zip:	LOS GATOS, CA 95030
EPA ID:	CAD081448920
Contact Name:	Not reported
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Ca
State District:	2
Mailing Address:	ALBRIGHT WAY SUITE E
Mailing City,State,Zip:	LOS GATOS, CA 95030
Owner Name:	George Kurtz
Owner Type:	Private
Operator Name:	Not Required
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline

FET/TEST INC (Continued) **1000141306**

202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20000915
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: NOT REQUIRED	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: GEORGE KURTZ	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19960901
Handler Name: FET/TEST INC	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Ca
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No

FET/TEST INC (Continued) **1000141306**

Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110002660451

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000141306
Registry ID: 110002660451
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002660451
Name: FET/TEST INC
Address: 160 ALBRIGHT WAY SUITE E
City,State,Zip: LOS GATOS, CA 95030

D17 **GYNE PATH LABORATORY INC** **CUPA Listings** **S121472820**
NW **100 ALBRIGHT WY C** **N/A**
1/8-1/4 **LOS GATOS, CA 95032**
0.141 mi.
745 ft. **Site 3 of 8 in cluster D**

Relative: Higher
Actual: 283 ft.

CUPA SANTA CLARA:
Name: GYNE PATH LABORATORY INC
Address: 100 ALBRIGHT WY C
City,State,Zip: LOS GATOS, CA 95032
Region: SANTA CLARA
Telephone: 4088665227
UDF Email: Not reported
PE#: 2205
Program Description: GENERATES 100 KG YR TO <5 TONS/YR
Program Identifier: DEH PERMIT-HAZ WASTE GENERATOR PROGRAM
Latitude: 37.256066

GYNE PATH LABORATORY INC (Continued) **S121472820**

Longitude: -121.964326
Record ID: PR0373879
Facility ID: FA0256032

D18 **IA 062714 CALPATH MEDICAL ASSOCIATES** **CUPA Listings** **S121472821**
NW **100 ALBRIGHT WY C** **N/A**
1/8-1/4 **LOS GATOS, CA 95032**
0.141 mi.
745 ft. **Site 4 of 8 in cluster D**

Relative:
Higher

Actual:
283 ft.

CUPA SANTA CLARA:
Name: IA 062714 CALPATH MEDICAL ASSOCIATES
Address: 100 ALBRIGHT WY C
City,State,Zip: LOS GATOS, CA 95032
Region: SANTA CLARA
Telephone: 4088665227
UDF Email: Not reported
PE#: 2205
Program Description: GENERATES 100 KG YR TO <5 TONS/YR
Program Identifier: DEH PERMIT-HAZ WASTE GENERATOR PROGRAM
Latitude: 37.256066
Longitude: -121.964326
Record ID: PR0373881
Facility ID: FA0256033

Name: IA 062714 CALPATH MEDICAL ASSOCIATES
Address: 100 ALBRIGHT WY C
City,State,Zip: LOS GATOS, CA 95032
Region: SANTA CLARA
Telephone: 4088665227
UDF Email: Not reported
PE#: 2263
Program Description: CONDITIONALLY EXEMPT (CE)
Program Identifier: DEH PERMIT-ONSITE HAZ WASTE TREATMENT/TIERED PERMIT PROGRAM
Latitude: 37.256066
Longitude: -121.964326
Record ID: PR0383742
Facility ID: FA0256033

D19 **CALERA CORPORATION** **CERS HAZ WASTE** **S121474133**
NW **100 ALBRIGHT AV A** **CUPA Listings** **N/A**
1/8-1/4 **LOS GATOS, CA 95032** **CERS**
0.141 mi.
745 ft. **Site 5 of 8 in cluster D**

Relative:
Higher

Actual:
283 ft.

CERS HAZ WASTE:
Name: CALERA CORPORATION
Address: 100 ALBRIGHT AV A
City,State,Zip: LOS GATOS, CA 95032
Site ID: 101620
CERS ID: 10075726
CERS Description: Hazardous Waste Generator

CUPA SANTA CLARA:
Name: CALERA CORPORATION
Address: 100 ALBRIGHT AV A

CALERA CORPORATION (Continued) **S121474133**

City,State,Zip: LOS GATOS, CA 95032
Region: SANTA CLARA
Telephone: 4083404600
UDF Email: Not reported
PE#: 2205
Program Description: GENERATES 100 KG YR TO <5 TONS/YR
Program Identifier: DEH PERMIT-HAZ WASTE GENERATOR PROGRAM
Latitude: 37.22496
Longitude: -121.969819
Record ID: PR0387893
Facility ID: FA0263344

CERS:
Name: CALERA CORPORATION
Address: 100 ALBRIGHT AV A
City,State,Zip: LOS GATOS, CA 95032
Site ID: 101620
CERS ID: 10075726
CERS Description: Chemical Storage Facilities

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 14600 Winchester Blvd
Affiliation City: Los Gatos
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95032
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: Matt Smith
Entity Title: EH&S Officer
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact
Entity Name: Matt Smith
Entity Title: Not reported
Affiliation Address: 14600 Winchester Blvd.
Affiliation City: Los Gatos
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95032
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Calera Corporation
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported

CALERA CORPORATION (Continued) **S121474133**

Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(408) 340-4600,
Affiliation Type Desc:	Parent Corporation
Entity Name:	Calera Corporation
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Document Preparer
Entity Name:	Matt Smith
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	Calera Corporation
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Los Gatos
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95032
Affiliation Phone:	(408) 340-4600,
Affiliation Type Desc:	CUPA District
Entity Name:	Santa Clara County Environmental Health
Entity Title:	Not reported
Affiliation Address:	1555 Berger Drive, Suite 300
Affiliation City:	San Jose
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95112-2716
Affiliation Phone:	(408) 918-3400,

D20 **IA 072613 COMPUGRAPHICS USA** **CUPA Listings** **S121468596**
NW **120 ALBRIGHT WY** **N/A**
1/8-1/4 **LOS GATOS, CA 95030**
0.143 mi.
754 ft. **Site 6 of 8 in cluster D**

Relative:
Higher

Actual:
280 ft.

CUPA SANTA CLARA:

Name:	IA 072613 COMPUGRAPHICS USA
Address:	120 ALBRIGHT WY
City,State,Zip:	LOS GATOS, CA 95030
Region:	SANTA CLARA
Telephone:	4083411600
UDF Email:	Not reported

IA 072613 COMPUGRAPHICS USA (Continued) **S121468596**

PE#:	LQ05
Program Description:	GENERATES 100 KG YR TO <5 TONS/YR (RCRA LQG)
Program Identifier:	DEH PERMIT-HAZ WASTE GENERATOR PROGRAM
Latitude:	37.256828
Longitude:	-121.96388
Record ID:	PR0312861
Facility ID:	FA0201787
Name:	IA 072613 COMPUGRAPHICS USA
Address:	120 ALBRIGHT WY
City,State,Zip:	LOS GATOS, CA 95030
Region:	SANTA CLARA
Telephone:	4083411600
UDF Email:	Not reported
PE#:	2262
Program Description:	CONDITIONALLY AUTHORIZED (CA)
Program Identifier:	DEH PERMIT-ONSITE HAZ WASTE TREATMENT/TIERED PERMIT PROGRAM
Latitude:	37.256828
Longitude:	-121.96388
Record ID:	PR0365303
Facility ID:	FA0201787

D21 **BIPOLARICS INC** **RCRA-SQG** **1000333449**
NW **108 ALBRIGHT WAY** **FINDS** **CAD982477044**
1/8-1/4 **LOS GATOS, CA 95030** **ECHO**
0.143 mi. **EMI**
756 ft. **Site 7 of 8 in cluster D** **HWTS**
HAZNET

Relative:
Higher

Actual:
281 ft.

RCRA Listings:

Date Form Received by Agency:	19880830
Handler Name:	Bipolarics Inc
Handler Address:	108 Albright Way
Handler City,State,Zip:	LOS GATOS, CA 95030
EPA ID:	CAD982477044
Contact Name:	ENVIRONMENTAL MANAGER
Contact Address:	108 ALBRIGHT WAY
Contact City,State,Zip:	LOS GATOS, CA 95030
Contact Telephone:	408-379-4543
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Other
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Ca
State District:	2
Mailing Address:	108 ALBRIGHT WAY
Mailing City,State,Zip:	LOS GATOS, CA 95030
Owner Name:	Los Gatos Business Park
Owner Type:	Private
Operator Name:	Not Required
Operator Type:	Private
Short-Term Generator Activity:	No

BIPOLARICS INC (Continued) **1000333449**

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: LOS GATOS BUSINESS PARK	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: NOT REQUIRED	
Legal Status:	Private

BIPOLARICS INC (Continued) **1000333449**

Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19880830
Handler Name: BIPOLARICS INC	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Ca
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	334413
NAICS Description:	SEMICONDUCTOR AND RELATED DEVICE MANUFACTURING

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

FINDS:

Registry ID: 110001172374

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000333449
Registry ID:	110001172374
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110001172374
Name:	BIPOLARICS INC
Address:	108 ALBRIGHT WAY

BIPOLARICS INC (Continued) **1000333449**

City,State,Zip: LOS GATOS, CA 95030

EMI:

Name:	BIPOLARICS INC
Address:	108 ALBRIGHT WAY
City,State,Zip:	LOS GATOS, CA 950300000
Year:	1990
County Code:	43
Air Basin:	SF
Facility ID:	4981
Air District Name:	BA
SIC Code:	3674
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

HWTS:

Name:	BIPOLARICS INC
Address:	108 ALBRIGHT WAY
Address 2:	Not reported
City,State,Zip:	LOS GATOS, CA 95030
EPA ID:	CAD982477044
Inactive Date:	06/30/1998
Create Date:	06/15/1989
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	108 ALBRIGHT WAY
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LOS GATOS, CA 950301827
Owner Name:	Not reported
Owner Address:	Not reported
Owner Address 2:	Not reported
Owner City,State,Zip:	Not reported
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	BUSINESS CLOSED
Contact Address:	INACT PER NONDEL 98VQ FINAL
Contact Address 2:	Not reported
City,State,Zip:	Not reported
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	FEDERAL
Latitude:	37.25692
Longitude:	-121.962333

HAZNET:

Name:	BIPOLARICS INC

BIPOLARICS INC (Continued) **1000333449**

Address:	108 ALBRIGHT WAY
Address 2:	Not reported
City,State,Zip:	LOS GATOS, CA 950300000
Contact:	BUSINESS CLOSED
Telephone:	--
Mailing Name:	Not reported
Mailing Address:	108 ALBRIGHT WAY
Year:	1994
Gepaid:	CAD982477044
TSD EPA ID:	CAD059494310
CA Waste Code:	135 - Unspecified aqueous solution
Disposal Method:	D99 - Disposal, Other
Tons:	0.231
Year:	1994
Gepaid:	CAD982477044
TSD EPA ID:	CAD059494310
CA Waste Code:	343 - Unspecified organic liquid mixture
Disposal Method:	D99 - Disposal, Other
Tons:	0.187
Year:	1994
Gepaid:	CAD982477044
TSD EPA ID:	CAD059494310
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	D99 - Disposal, Other
Tons:	0.209
Year:	1992
Gepaid:	CAD982477044
TSD EPA ID:	CAD059494310
CA Waste Code:	135 - Unspecified aqueous solution
Disposal Method:	H01 - Transfer Station
Tons:	0.2293
Year:	1992
Gepaid:	CAD982477044
TSD EPA ID:	CAD059494310
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	D99 - Disposal, Other
Tons:	0.4586
Year:	1992
Gepaid:	CAD982477044
TSD EPA ID:	CAD059494310
CA Waste Code:	343 - Unspecified organic liquid mixture
Disposal Method:	D99 - Disposal, Other
Tons:	0.2293
Year:	1992
Gepaid:	CAD982477044
TSD EPA ID:	CAD069138899
CA Waste Code:	711 - Liquids with cyanides >= 1,000 Mg./L
Disposal Method:	R01 - Recycler
Tons:	0.0333

BIPOLARICS INC (Continued) **1000333449**

Year: 1991
Gepaid: CAD982477044
TSD EPA ID: CAD059494310
CA Waste Code: 135 - Unspecified aqueous solution
Disposal Method: D99 - Disposal, Other
Tons: 0.9174

Year: 1991
Gepaid: CAD982477044
TSD EPA ID: CAD059494310
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: D99 - Disposal, Other
Tons: 0.2293

Year: 1991
Gepaid: CAD982477044
TSD EPA ID: CAD059494310
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: D99 - Disposal, Other
Tons: 0.2293

Click this hyperlink while viewing on your computer to access
4 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 1994
Gen EPA ID: CAD982477044

Shipment Date: 19940603
Creation Date: 10/10/1995 0:00:00
Receipt Date: 19940603
Manifest ID: 92431324
Trans EPA ID: TXD988052494
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD059494310
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 343 - Unspecified organic liquid mixture
RCRA Code: D001
Meth Code: D99 - Disposal, Other
Quantity Tons: 0.187
Waste Quantity: 55
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19940603
Creation Date: 10/10/1995 0:00:00
Receipt Date: 19940603
Manifest ID: 92431324

BIPOLARICS INC (Continued) **1000333449**

Trans EPA ID:	TXD988052494
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.231
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19940603
Creation Date:	10/10/1995 0:00:00
Receipt Date:	19940603
Manifest ID:	92431324
Trans EPA ID:	TXD988052494
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.209
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

D22 **BIPOLARICS INC** **CUPA Listings** **S121468595**
NW **108 ALBRIGHT WY** **N/A**
1/8-1/4 **LOS GATOS, CA 95030**
0.143 mi.
756 ft. **Site 8 of 8 in cluster D**

Relative:
Higher

Actual:
281 ft.

CUPA SANTA CLARA:

Name:	BIPOLARICS INC
Address:	108 ALBRIGHT WY
City,State,Zip:	LOS GATOS, CA 95030
Region:	SANTA CLARA
Telephone:	4083794543
UDF Email:	Not reported
PE#:	2205

BIPOLARICS INC (Continued) **S121468595**

Program Description:	GENERATES 100 KG YR TO <5 TONS/YR
Program Identifier:	DEH PERMIT-HAZ WASTE GENERATOR PROGRAM
Latitude:	37.256147
Longitude:	-121.964297
Record ID:	PR0314053
Facility ID:	FA0201775

E23 **DIAMON IMAGES INC** **RCRA-SQG** **1000301134**
NW **120 C ALBRIGHT WAY** **CAD102100922**
1/8-1/4 **LOS GATOS, CA 95030**
0.154 mi.
814 ft. **Site 4 of 8 in cluster E**

Relative: **Higher**
Actual: **281 ft.**

RCRA Listings:

Date Form Received by Agency:	19960901
Handler Name:	Diamon Images Inc
Handler Address:	120 C Albright Way
Handler City,State,Zip:	LOS GATOS, CA 95030
EPA ID:	CAD102100922
Contact Name:	Not reported
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Ca
State District:	2
Mailing Address:	120 C ALBRIGHT WAY
Mailing City,State,Zip:	LOS GATOS, CA 95030
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not Required
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported

DIAMON IMAGES INC (Continued) **1000301134**

2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: NOT REQUIRED	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: NOT REQUIRED	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19960901
Handler Name: DIAMON IMAGES INC	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Ca
Large Quantity Handler of Universal Waste:	No

DIAMON IMAGES INC (Continued) **1000301134**

Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19850916
Handler Name: DIAMON IMAGES INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ca
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 334413
NAICS Description: SEMICONDUCTOR AND RELATED DEVICE MANUFACTURING

Has the Facility Received Notices of Violations:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 20100804
Actual Return to Compliance Date: 20100827
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: 20100902
Enforcement Identifier: 601
Date of Enforcement Action: 20100804
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

DIAMON IMAGES INC (Continued) **1000301134**

SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20100804
Actual Return to Compliance Date:	20100827
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	20100902
Enforcement Identifier:	601
Date of Enforcement Action:	20100804
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20100804
Actual Return to Compliance Date:	20100827
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	20100903
Enforcement Identifier:	601
Date of Enforcement Action:	20100804
Enforcement Responsible Agency:	State

DIAMON IMAGES INC (Continued) **1000301134**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 20100804
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 20100827
Scheduled Compliance Date: 20100902
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20100804
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 20100827
Scheduled Compliance Date: 20100902
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20100804
Evaluation Responsible Agency: State
Found Violation: Yes

DIAMON IMAGES INC (Continued) **1000301134**

Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20100827
Scheduled Compliance Date:	20100903
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

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24 West 1/8-1/4 0.154 mi. 815 ft. **KATHLEEN KEATING**
SPRUCE HILL COURT
LOS GATOS, CA 95032

RCRA NonGen / NLR **1026469432**
E MANIFEST **CAC003074901**

Relative: Higher
Actual: 276 ft.

RCRA Listings:

Date Form Received by Agency:	20200715
Handler Name:	Kathleen Keating
Handler Address:	103 Spruce Hill Court
Handler City,State,Zip:	LOS GATOS, CA 95032
EPA ID:	CAC003074901
Contact Name:	KATHLEEN KEATING
Contact Address:	103 SPRUCE HILL COURT
Contact City,State,Zip:	LOS GATOS, CA 95032
Contact Telephone:	408-506-0108
Contact Fax:	Not reported
Contact Email:	NICOLE@ENV-REM.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	103 SPRUCE HILL COURT
Mailing City,State,Zip:	LOS GATOS, CA 95032
Owner Name:	Kathleen Keating
Owner Type:	Other
Operator Name:	Kathleen Keating
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No

KATHLEEN KEATING (Continued) **1026469432**

Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200814
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: KATHLEEN KEATING	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	103 SPRUCE HILL COURT
Owner/Operator City,State,Zip:	LOS GATOS, CA 95032
Owner/Operator Telephone:	408-506-0108
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: KATHLEEN KEATING	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	103 SPRUCE HILL COURT
Owner/Operator City,State,Zip:	LOS GATOS, CA 95032
Owner/Operator Telephone:	408-506-0108
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20200715

KATHLEEN KEATING (Continued) **1026469432**

Handler Name: KATHLEEN KEATING
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E MANIFEST:
Manifest Tracking Number: 000308807DAT
Last Updated Date: 20200813
Shipped Date: 20200721
Received Date: 20200731
Manifest Status: Signed
Submission Type: DataImage5Copy
Origin Type: Mail
Generator EPA ID: CAC003074901
Generator Name: KATHLEEN KEATING
Generator Mail Street Number: 103
Generator Mail Street 1: SPRUCE HILL COURT
Generator Mail Street 2: Not reported
Generator Mail City: LOS GATOS
Generator Mail State: CA
Generator Mail Zip: 95032
Generator Location Street Number: 103
Generator Location Street 1: Spruce Hill Court
Generator Location Street 2: Not reported
Generator Location City: Los Gatos
Generator Location Zip: 95032
Generator Location State: CA
Generator Contact Company Name: Not reported
Designated Facility EPA ID: CAD982042475
Designated Facility Name: Not reported
Designated Facility Mail Street Number: 235
Designated Facility Mail Street 1: Not reported
Designated Facility Mail Street 2: N FIRST ST
Designated Facility Mail City: DIXON
Designated Facility Mail Zip: 95620
Designated Facility Mail State: CA
Designated Facility Location Street Number: 6426

KATHLEEN KEATING (Continued) **1026469432**

Designated Facility Location Street 1:	HAY RD
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	VACAVILLE
Designated Facility Location Zip:	95687
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	RECOLOGY HAY ROAD
Manifest Residue Indicator:	N
Rejection Indicator:	N

State Waste:

Manifest Tracking Number:	000308807DAT
Waste Line Number:	1
State Waste Code Owner:	CA
State Waste Code:	151
State Waste:	Asbestos-containing waste

Transporter:

Manifest Tracking Number:	000308807DAT
Transporter Line Number:	1
Transporter EPA ID:	CAL000371038
Transporter Name:	ENVIRONMENTAL REMEDIES INC

Manifest Tracking Number:	000308807DAT
Transporter Line Number:	2
Transporter EPA ID:	CAR000272773
Transporter Name:	UNI WASTE LLC

Waste Line:

Manifest Tracking Number:	000308807DAT
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	NA2212
U.S. DOT Description:	R.Q. NA2212, ASBESTOS, 9, PG III
Non-Hazardous Waste Description:	Not reported
Number of Containers:	3
Container Type Code:	BA
Container Type Description:	Burlap, cloth, paper, or plastic bags
Waste Quantity:	1
Quantity Unit of Measure Code:	Y
Quantity Unit of Measure Description:	Cubic Yards
Waste Quantity, in Tons:	0.84
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.84
Waste Quantity, in Kilograms:	761.9052
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	761.9052
Management Method Code:	H132
Management Method Description:	LANDFILL (WITH PRIOR TREATMENT AND/OR STABILIZATION)
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported

KATHLEEN KEATING (Continued) **1026469432**

Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	N

E25 **NETFLIX** **RCRA NonGen / NLR** **1027528843**
NW **121 ALBRIGHT WAY** **E MANIFEST** **CAL000475072**
1/8-1/4 **LOS GATOS, CA 95032**
0.164 mi.
866 ft. **Site 5 of 8 in cluster E**

Relative: **Higher**
Actual: **281 ft.**

RCRA Listings:

Date Form Received by Agency:	20221206
Handler Name:	Netflix
Handler Address:	121 Albright Way
Handler City,State,Zip:	LOS GATOS, CA 95032
EPA ID:	CAL000475072
Contact Name:	ANN BUI
Contact Address:	121 ALBRIGHT WAY
Contact City,State,Zip:	LOS GATOS, CA 95032
Contact Telephone:	408-425-7921
Contact Fax:	Not reported
Contact Email:	ABUI@NETFLIX.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	121 ALBRIGHT WAY
Mailing City,State,Zip:	LOS GATOS, CA 95032
Owner Name:	Netflix Inc
Owner Type:	Other
Operator Name:	Ann Bui
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported

NETFLIX (Continued) **1027528843**

2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20221213
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: ANN BUI	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	121 ALBRIGHT WAY
Owner/Operator City,State,Zip:	LOS GATOS, CA 95032
Owner/Operator Telephone:	408-425-7921
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: NETFLIX INC	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	100 WINCHESTER CIR
Owner/Operator City,State,Zip:	LOS GATOS, CA 95032
Owner/Operator Telephone:	408-540-3300
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20221206
Handler Name: NETFLIX	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No

NETFLIX (Continued) **1027528843**

Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	512110
NAICS Description:	MOTION PICTURE AND VIDEO PRODUCTION

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

E MANIFEST:

Manifest Tracking Number:	000278778DAT
Last Updated Date:	20200427
Shipped Date:	20190830
Received Date:	20190930
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000299424
Generator Name:	NETFLIX
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	121 ALBRIGHT WAY
Generator Mail Street 2:	Not reported
Generator Mail City:	LOS GATOS
Generator Mail State:	CA
Generator Mail Zip:	95032
Generator Location Street Number:	Not reported
Generator Location Street 1:	100 Winchester Circle
Generator Location Street 2:	Not reported
Generator Location City:	Los Gatos
Generator Location Zip:	95032
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD980884183
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	11855 White Rock Road
Designated Facility Mail City:	Rancho Cordova
Designated Facility Mail Zip:	95742
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	11855 White Rock Road
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	Rancho Cordova
Designated Facility Location Zip:	95742

NETFLIX (Continued) **1027528843**

Designated Facility Location State: CA
Designated Facility Contact Company Name: GEM Rancho Cordova LLC
Manifest Residue Indicator: N
Rejection Indicator: N

Federal Waste:
Manifest Tracking Number: 000278778DAT
Waste Line Number: 1
Federal Waste Code: D001
Federal Waste: IGNITABLE WASTE

State Waste:
Manifest Tracking Number: 000278778DAT
Waste Line Number: 1
State Waste Code Owner: CA
State Waste Code: 331
State Waste: Off-specification, aged, or surplus organics

Manifest Tracking Number: 000278778DAT
Waste Line Number: 1
State Waste Code Owner: CA
State Waste Code: 331
State Waste: Off-specification, aged, or surplus organics

Transporter:
Manifest Tracking Number: 000278778DAT
Transporter Line Number: 1
Transporter EPA ID: MNS000110924
Transporter Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC

Waste Line:
Manifest Tracking Number: 000278778DAT
Waste Line Number: 1
U.S. DOT Hazardous Indicator: Y
U.S. DOT ID Number: UN1993
U.S. DOT Description: UN1993 WASTE FLAMMABLE LIQUIDS, N.O.S. (ISOPROPANOL) I 3 D001=100 LBS
Non-Hazardous Waste Description: Not reported
Number of Containers: 1
Container Type Code: DF
Container Type Description: Fiberboard or plastic drums, barrels, kegs
Waste Quantity: 1
Quantity Unit of Measure Code: G
Quantity Unit of Measure Description: Gallons
Waste Quantity, in Tons: 0.0041701416
Acute Waste Quantity, in Tons: 0
Non-Acute Waste Quantity, in Tons: 0.0041701416
Waste Quantity, in Kilograms: 3.7824438
Acute Waste Quantity, in Kilograms: 0
Non-Acute Waste Quantity, in Kilorgrams: 3.7824438
Management Method Code: H141
Management Method Description: STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator: N
Quantity Discrepancy Indicator: N
Waste Type Discrepancy Indicator: N
Waste Density: Not reported

NETFLIX (Continued) **1027528843**

Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	Y

26
WNW
1/8-1/4
0.164 mi.
866 ft.

IA 071513 CALERA CORPORATION **CUPA Listings** **S121474132**
14600 WINCHESTER BL **N/A**
LOS GATOS, CA 95032

Relative:
Higher

Actual:
287 ft.

CUPA SANTA CLARA:

Name:	IA 071513 CALERA CORPORATION
Address:	14600 WINCHESTER BL
City,State,Zip:	LOS GATOS, CA 95032
Region:	SANTA CLARA
Telephone:	4083404600
UDF Email:	Not reported
PE#:	2205
Program Description:	GENERATES 100 KG YR TO <5 TONS/YR
Program Identifier:	DEH PERMIT-HAZ WASTE GENERATOR PROGRAM
Latitude:	37.255157
Longitude:	-121.965229
Record ID:	PR0387890
Facility ID:	FA0263342

27
South
1/8-1/4
0.164 mi.
868 ft.

ABLE CONSTRUCTION GROUP INC. **RCRA NonGen / NLR** **1025831217**
16615 LARK AVENUE **E MANIFEST** **CAC003010775**
LOS GATOS, CA 95032

Relative:
Higher

Actual:
273 ft.

RCRA Listings:

Date Form Received by Agency:	20190417
Handler Name:	Able Construction Group Inc.
Handler Address:	16615 Lark Avenue
Handler City,State,Zip:	LOS GATOS, CA 95032
EPA ID:	CAC003010775
Contact Name:	GLEN GILBERT
Contact Address:	1020 RUFF DR
Contact City,State,Zip:	SAN JOSE, CA 95110
Contact Telephone:	408-377-9990
Contact Fax:	Not reported
Contact Email:	ROCHELLE@ABLESEPTIC.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported

ABLE CONSTRUCTION GROUP INC. (Continued) **1025831217**

Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	1020 RUFF DR
Mailing City,State,Zip:	SAN JOSE, CA 95110
Owner Name:	Glen Gilbert
Owner Type:	Other
Operator Name:	Glen Gilbert
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20190626
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: GLEN GILBERT	
Legal Status:	Other
Date Became Current:	Not reported

ABLE CONSTRUCTION GROUP INC. (Continued) **1025831217**

Date Ended Current:	Not reported
Owner/Operator Address:	1020 RUFF DR
Owner/Operator City,State,Zip:	SAN JOSE, CA 95110
Owner/Operator Telephone:	408-377-9990
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: GLEN GILBERT	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1020 RUFF DR
Owner/Operator City,State,Zip:	SAN JOSE, CA 95110
Owner/Operator Telephone:	408-377-9990
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20190417
Handler Name: ABLE CONSTRUCTION GROUP INC.	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	237120
NAICS Description:	OIL AND GAS PIPELINE AND RELATED STRUCTURES CONSTRUCTION

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

E MANIFEST:

Manifest Tracking Number:	016710373JJK
Last Updated Date:	20190808
Shipped Date:	20190502
Received Date:	20190503
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Mail
Generator EPA ID:	CAC003010775
Generator Name:	ABLE CONSTRUCTION GROUP INC.

ABLE CONSTRUCTION GROUP INC. (Continued) **1025831217**

Generator Mail Street Number:	Not reported
Generator Mail Street 1:	16615 LARK AVENUE
Generator Mail Street 2:	Not reported
Generator Mail City:	LOS GATOS
Generator Mail State:	CA
Generator Mail Zip:	95032
Generator Location Street Number:	Not reported
Generator Location Street 1:	1020 RUFF DR
Generator Location Street 2:	Not reported
Generator Location City:	SAN JOSE
Generator Location Zip:	95110
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD982042475
Designated Facility Name:	RECOLOGY HAY ROAD
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	235 N FIRST ST
Designated Facility Mail City:	DIXON
Designated Facility Mail Zip:	95620
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	6426 HAY RD
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	VACAVILLE
Designated Facility Location Zip:	95687-0000
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

State Waste:

Manifest Tracking Number:	016710373JJK
Waste Line Number:	1
State Waste Code Owner:	CA
State Waste Code:	151
State Waste:	Asbestos-containing waste

Transporter:

Manifest Tracking Number:	016710373JJK
Transporter Line Number:	1
Transporter EPA ID:	CAR000171017
Transporter Name:	FREMOUW ENVIRONMENTAL SERVICES INC

Waste Line:

Manifest Tracking Number:	016710373JJK
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	NA2212
U.S. DOT Description:	NA2212, Asbestos, 9, PG III, RQ
Non-Hazardous Waste Description:	Not reported
Number of Containers:	1
Container Type Code:	CM
Container Type Description:	Metal boxes, cartons, cases (including roll offs)
Waste Quantity:	8
Quantity Unit of Measure Code:	Y

ABLE CONSTRUCTION GROUP INC. (Continued) **1025831217**

Quantity Unit of Measure Description:	Cubic Yards
Waste Quantity, in Tons:	6.72
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	6.72
Waste Quantity, in Kilograms:	6095.2417
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	6095.2417
Management Method Code:	H132
Management Method Description:	LANDFILL (WITH PRIOR TREATMENT AND/OR STABILIZATION)
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	N

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28 **NETFLIX** **RCRA NonGen / NLR** **1028897842**
NW **101 ALBRIGHT WAY** **CAC003259460**
1/8-1/4 **LOS GATOS, CA 95032**
0.166 mi.
875 ft.

Relative: **Higher**

Actual: **283 ft.**

RCRA Listings:

Date Form Received by Agency:	20231103
Handler Name:	Netflix
Handler Address:	101 Albright Way
Handler City,State,Zip:	LOS GATOS, CA 95032
EPA ID:	CAC003259460
Contact Name:	JOSE CURIEL
Contact Address:	101 ALBRIGHT WAY
Contact City,State,Zip:	LOS GATOS, CA 95032
Contact Telephone:	408-877-7233
Contact Fax:	Not reported
Contact Email:	JCURIEL@NETFLIX.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	101 ALBRIGHT WAY
Mailing City,State,Zip:	LOS GATOS, CA 95032
Owner Name:	Netflix, Inc.
Owner Type:	Other
Operator Name:	Jose Curiel
Operator Type:	Other

NETFLIX (Continued) **1028897842**

Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20231103
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: NETFLIX, INC.	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	100 WINCHESTER CIRCLE
Owner/Operator City,State,Zip:	LOS GATOS, CA 95032
Owner/Operator Telephone:	408-877-7233
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: JOSE CURIEL	

NETFLIX (Continued) **1028897842**

Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	101 ALBRIGHT WAY
Owner/Operator City,State,Zip:	LOS GATOS, CA 95032
Owner/Operator Telephone:	408-877-7233
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20231103
Handler Name: NETFLIX	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	512110
NAICS Description:	MOTION PICTURE AND VIDEO PRODUCTION

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

E29 **NETFLIX INC LOS GATOS** **RCRA NonGen / NLR** **1027218621**
NNW **131 ALBRIGHT WAY** **CAL000470494**
1/8-1/4 **LOS GATOS, CA 95032**
0.169 mi.
892 ft. **Site 6 of 8 in cluster E**

Relative:
Higher

Actual:
279 ft.

RCRA Listings:

Date Form Received by Agency:	20220504
Handler Name:	Netflix Inc Los Gatos
Handler Address:	131 Albright Way
Handler City,State,Zip:	LOS GATOS, CA 95032
EPA ID:	CAL000470494
Contact Name:	JUN LEE
Contact Address:	131 ALBRIGHT WAY
Contact City,State,Zip:	LOS GATOS, CA 95032
Contact Telephone:	925-788-7203
Contact Fax:	Not reported
Contact Email:	JUNLEE@NETFLIXCONTRACTORS.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported

NETFLIX INC LOS GATOS (Continued) **1027218621**

Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	131 ALBRIGHT WAY
Mailing City,State,Zip:	LOS GATOS, CA 95032
Owner Name:	Netflix Inc
Owner Type:	Other
Operator Name:	Jun Lee
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20220518
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:
Owner/Operator Indicator: Owner

NETFLIX INC LOS GATOS (Continued) **1027218621**

Owner/Operator Name: NETFLIX INC
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 100 WINCHESTER CIR
Owner/Operator City,State,Zip: LOS GATOS, CA 95032
Owner/Operator Telephone: 408-540-3700
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: JUN LEE
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 131 ALBRIGHT WAY
Owner/Operator City,State,Zip: LOS GATOS, CA 95032
Owner/Operator Telephone: 925-788-7203
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20220504
Handler Name: NETFLIX INC LOS GATOS
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E30 **DRESSER INDUSTRIES INC** **RCRA NonGen / NLR** **1000386348**
NNW **131 ALBRIGHT WAY** **CAD982343279**
1/8-1/4 **LOS GATOS, CA 95030**
0.169 mi.
892 ft. **Site 7 of 8 in cluster E**

Relative: **Higher**

Actual: **279 ft.**

RCRA Listings:

Date Form Received by Agency:	19880106
Handler Name:	Dresser Industries Inc
Handler Address:	131 Albright Way
Handler City,State,Zip:	LOS GATOS, CA 95030
EPA ID:	CAD982343279
Contact Name:	ENVIRONMENTAL MANAGER
Contact Address:	131 ALBRIGHT WAY
Contact City,State,Zip:	LOS GATOS, CA 95030
Contact Telephone:	415-964-2112
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Other
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Ca
State District:	2
Mailing Address:	1245 PEAR AVE
Mailing City,State,Zip:	MOUNTAIN VIEW, CA 94043
Owner Name:	Los Gatos Business Park
Owner Type:	Private
Operator Name:	Not Required
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No

DRESSER INDUSTRIES INC (Continued) **1000386348**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: LOS GATOS BUSINESS PARK	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: NOT REQUIRED	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19880106
Handler Name: DRESSER INDUSTRIES INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Ca
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

DRESSER INDUSTRIES INC (Continued) **1000386348**

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E31 **DRESSER INDUSTRIES INC** **RCRA-SQG** **1000229829**
NNW **131 ALBRIGHT WAY** **FINDS** **CAD982320715**
1/8-1/4 **LOS GATOS, CA 95030** **ECHO**
0.169 mi. **EMI**
892 ft. **Site 8 of 8 in cluster E** **HWTS**
HAZNET

Relative:
Higher

Actual:
279 ft.

RCRA Listings:

Date Form Received by Agency:	19960901
Handler Name:	Trufocus Corp
Handler Address:	131 Albright Way
Handler City,State,Zip:	LOS GATOS, CA 95030
EPA ID:	CAD982320715
Contact Name:	Not reported
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Ca
State District:	2
Mailing Address:	131 ALBRIGHT WAY
Mailing City,State,Zip:	LOS GATOS, CA 95030
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not Required
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No

DRESSER INDUSTRIES INC (Continued) **1000229829**

Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: NOT REQUIRED	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: LOS GATOS	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

DRESSER INDUSTRIES INC (Continued) **1000229829**

Historic Generators:

Receive Date:		19960901
Handler Name:	TRUFOCUS CORP	
Federal Waste Generator Description:		Small Quantity Generator
State District Owner:		Ca
Large Quantity Handler of Universal Waste:		No
Recognized Trader Importer:		No
Recognized Trader Exporter:		No
Spent Lead Acid Battery Importer:		No
Spent Lead Acid Battery Exporter:		No
Current Record:		Yes
Non Storage Recycler Activity:		Not reported
Electronic Manifest Broker:		Not reported

Receive Date:		19880316
Handler Name:	TRUFOCUS CORP	
Federal Waste Generator Description:		Large Quantity Generator
State District Owner:		Ca
Large Quantity Handler of Universal Waste:		No
Recognized Trader Importer:		No
Recognized Trader Exporter:		No
Spent Lead Acid Battery Importer:		No
Spent Lead Acid Battery Exporter:		No
Current Record:		No
Non Storage Recycler Activity:		Not reported
Electronic Manifest Broker:		Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	334517
NAICS Description:	IRRADIATION APPARATUS MANUFACTURING

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

FINDS:

Registry ID: 110071268213

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

Registry ID: 110009543823

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Resource Conservation and Recovery Act Information System

DRESSER INDUSTRIES INC (Continued) **1000229829**

(RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

Registry ID: 110001172427

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000229829
Registry ID:	110001172427
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110001172427
Name:	TRUFOCUS CORP
Address:	131 ALBRIGHT WAY
City,State,Zip:	LOS GATOS, CA 95030

Envid:	1000229829
Registry ID:	110009543823
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110009543823
Name:	DRESSER INDUSTRIES INC
Address:	131 ALBRIGHT WAY
City,State,Zip:	LOS GATOS, CA 95030

EMI:

Name:	TRUFOCUS CORPORATION
Address:	131 ALBRIGHT WAY
City,State,Zip:	LOS GATOS, CA 950300000
Year:	1990
County Code:	43
Air Basin:	SF
Facility ID:	5034
Air District Name:	BA
SIC Code:	3844
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

HWTS:

DRESSER INDUSTRIES INC (Continued) **1000229829**

Name:	TRUFOCUS CORP
Address:	131 ALBRIGHT WAY
Address 2:	Not reported
City,State,Zip:	LOS GATOS, CA 95030
EPA ID:	CAD982320715
Inactive Date:	09/25/1994
Create Date:	06/17/1988
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	131 ALBRIGHT WAY
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LOS GATOS, CA 950300000
Owner Name:	Not reported
Owner Address:	Not reported
Owner Address 2:	Not reported
Owner City,State,Zip:	Not reported
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	INACTIVE COMPANY MOVED EFF
Contact Address:	9-25-94 PER PHONE CONVO W/
Contact Address 2:	Not reported
City,State,Zip:	Not reported
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	FEDERAL
Latitude:	37.258083
Longitude:	-121.963863

HAZNET:

Name:	TRUFOCUS CORP
Address:	131 ALBRIGHT WAY
Address 2:	Not reported
City,State,Zip:	LOS GATOS, CA 950300000
Contact:	INACTIVE COMPANY MOVED EFF
Telephone:	Not reported
Mailing Name:	Not reported
Mailing Address:	131 ALBRIGHT WAY
Year:	1994
Gepaid:	CAD982320715
TSD EPA ID:	Not reported
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	-
Tons:	0.38
Year:	1994
Gepaid:	CAD982320715
TSD EPA ID:	CAD059494310
CA Waste Code:	791 - Liquids with pH <= 2
Disposal Method:	D99 - Disposal, Other
Tons:	0.2293
Year:	1993
Gepaid:	CAD982320715
TSD EPA ID:	CAL922955281

DRESSER INDUSTRIES INC (Continued) **1000229829**

CA Waste Code:	541 - Photochemicals/photoprocessing waste
Disposal Method:	R01 - Recycler
Tons:	0.0834
Year:	1993
Gepaid:	CAD982320715
TSD EPA ID:	CAD059494310
CA Waste Code:	791 - Liquids with pH <= 2
Disposal Method:	H01 - Transfer Station
Tons:	0.4586
Year:	1993
Gepaid:	CAD982320715
TSD EPA ID:	CAD059494310
CA Waste Code:	791 - Liquids with pH <= 2
Disposal Method:	D99 - Disposal, Other
Tons:	0.2919
Year:	1992
Gepaid:	CAD982320715
TSD EPA ID:	CAD059494310
CA Waste Code:	791 - Liquids with pH <= 2
Disposal Method:	H01 - Transfer Station
Tons:	0.4587
Year:	1992
Gepaid:	CAD982320715
TSD EPA ID:	CAL000027751
CA Waste Code:	541 - Photochemicals/photoprocessing waste
Disposal Method:	R01 - Recycler
Tons:	0.0625
Year:	1991
Gepaid:	CAD982320715
TSD EPA ID:	CAD059494310
CA Waste Code:	791 - Liquids with pH <= 2
Disposal Method:	D99 - Disposal, Other
Tons:	0.4586
Year:	1991
Gepaid:	CAD982320715
TSD EPA ID:	CAD982482390
CA Waste Code:	541 - Photochemicals/photoprocessing waste
Disposal Method:	R01 - Recycler
Tons:	0.0625
Year:	1990
Gepaid:	CAD982320715
TSD EPA ID:	CAD059494310
CA Waste Code:	791 - Liquids with pH <= 2
Disposal Method:	D99 - Disposal, Other
Tons:	0.3544

Click this hyperlink while viewing on your computer to access
2 additional CA HAZNET: record(s) in the EDR Site Report.

DRESSER INDUSTRIES INC (Continued) **1000229829**

Additional Info:

Year:	1994
Gen EPA ID:	CAD982320715
Shipment Date:	19940915
Creation Date:	10/17/1995 0:00:00
Receipt Date:	19940915
Manifest ID:	92433116
Trans EPA ID:	TXD988052494
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.2293
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19940103
Creation Date:	9/13/1995 0:00:00
Receipt Date:	Not reported
Manifest ID:	93167029
Trans EPA ID:	CAD980695761
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	Not reported
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.38
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1993
Gen EPA ID:	CAD982320715

DRESSER INDUSTRIES INC (Continued) **1000229829**

Shipment Date:	19931230
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19931230
Manifest ID:	92296566
Trans EPA ID:	TXD988052494
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.2919
Waste Quantity:	70
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19931228
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19931228
Manifest ID:	93145230
Trans EPA ID:	CAL922955281
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL922955281
Trans Name:	Not reported
TSDF Alt EPA ID:	CAL922955281
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	R01 - Recycler
Quantity Tons:	0.0834
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19930521
Creation Date:	9/8/1995 0:00:00
Receipt Date:	19930521
Manifest ID:	92296573
Trans EPA ID:	TXD988052494
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310

DRESSER INDUSTRIES INC (Continued) **1000229829**

Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.2293
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19930506
Creation Date:	9/9/1995 0:00:00
Receipt Date:	19930506
Manifest ID:	89521974
Trans EPA ID:	TXD988052494
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.2293
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

F32 **LOS GATOS OAKS CONVALESCENT HOSPITAL** **RCRA NonGen / NLR** **1026471257**
South **16605 LARK AVENUE** **E MANIFEST** **CAC003076834**
1/8-1/4 **LOS GATOS, CA 95032**
0.199 mi.
1052 ft. **Site 1 of 2 in cluster F**

Relative:
Higher

Actual:
291 ft.

RCRA Listings:

Date Form Received by Agency:	20200729
Handler Name:	Los Gatos Oaks Convalescent Hospital
Handler Address:	16605 Lark Avenue
Handler City,State,Zip:	LOS GATOS, CA 95032
EPA ID:	CAC003076834
Contact Name:	MARIN HUDNALL
Contact Address:	9229 WEST SUNSET BLVD
Contact City,State,Zip:	WEST HOLLYWOOD, CA 90069
Contact Telephone:	310-493-6590
Contact Fax:	Not reported
Contact Email:	ARIANAHENDERSON@ALLIANCE-ENVIRO.COM
Contact Title:	Not reported

LOS GATOS OAKS CONVALESCENT HOSPITAL (Continued) **1026471257**

EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	9229 WEST SUNSET BLVD
Mailing City,State,Zip:	WEST HOLLYWOOD, CA 90069
Owner Name:	Los Gatos Oaks Convalescent Hospita
Owner Type:	Other
Operator Name:	Marin Hudnall
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200814
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

LOS GATOS OAKS CONVALESCENT HOSPITAL (Continued) **1026471257**

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: MARIN HUDNALL
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 9229 WEST SUNSET BLVD
Owner/Operator City,State,Zip: WEST HOLLYWOOD, CA 90069
Owner/Operator Telephone: 310-493-6590
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: LOS GATOS OAKS CONVALESCENT HOSPITA
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 9229 WEST SUNSET BLVD
Owner/Operator City,State,Zip: WEST HOLLYWOOD, CA 90069
Owner/Operator Telephone: 310-493-6590
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20200729
Handler Name: LOS GATOS OAKS CONVALESCENT HOSPITAL
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E MANIFEST:
Manifest Tracking Number: 021092752JJK
Last Updated Date: 20200827
Shipped Date: 20200811

LOS GATOS OAKS CONVALESCENT HOSPITAL (Continued) **1026471257**

Received Date:	20200813
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Mail
Generator EPA ID:	CAC003076834
Generator Name:	LOS GATOS OAKS CONVALESCENT HOSPITAL
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	16605 LARK AVENUE
Generator Mail Street 2:	Not reported
Generator Mail City:	LOS GATOS
Generator Mail State:	CA
Generator Mail Zip:	95032
Generator Location Street Number:	Not reported
Generator Location Street 1:	9229 WEST SUNSET BLVD
Generator Location Street 2:	Not reported
Generator Location City:	WEST HOLLYWOOD
Generator Location Zip:	90069
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD982042475
Designated Facility Name:	RECOLOGY HAY ROAD
Designated Facility Mail Street Number:	235
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	N FIRST ST
Designated Facility Mail City:	DIXON
Designated Facility Mail Zip:	95620
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	6426
Designated Facility Location Street 1:	HAY RD
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	VACAVILLE
Designated Facility Location Zip:	95687
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

State Waste:

Manifest Tracking Number:	021092752JJK
Waste Line Number:	1
State Waste Code Owner:	CA
State Waste Code:	151
State Waste:	Asbestos-containing waste

Transporter:

Manifest Tracking Number:	021092752JJK
Transporter Line Number:	1
Transporter EPA ID:	CAR000273680
Transporter Name:	FERMA GREENBOX INC

Waste Line:

Manifest Tracking Number:	021092752JJK
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	NA2212
U.S. DOT Description:	RQ NA2212, ASBESTOS, 9, PGIII

LOS GATOS OAKS CONVALESCENT HOSPITAL (Continued) **1026471257**

Non-Hazardous Waste Description:	Not reported
Number of Containers:	300
Container Type Code:	BA
Container Type Description:	Burlap, cloth, paper, or plastic bags
Waste Quantity:	20
Quantity Unit of Measure Code:	Y
Quantity Unit of Measure Description:	Cubic Yards
Waste Quantity, in Tons:	16.8
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	16.8
Waste Quantity, in Kilograms:	15238.104
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	15238.104
Management Method Code:	H132
Management Method Description:	LANDFILL (WITH PRIOR TREATMENT AND/OR STABILIZATION)
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	N

F33 **LOS GATOS SNF LLC** **RCRA NonGen / NLR** **1024750755**
South **16601 LARK AVE UNITS 6,8** **E MANIFEST** **CAC002970545**
1/8-1/4 **LOS GATOS, CA 95032**
0.199 mi.
1052 ft. **Site 2 of 2 in cluster F**

Relative: **Higher**

Actual: **291 ft.**

RCRA Listings:

Date Form Received by Agency:	20180712
Handler Name:	Los Gatos Snf Llc
Handler Address:	16601 Lark Ave Units 6,8
Handler City,State,Zip:	LOS GATOS, CA 95032
EPA ID:	CAC002970545
Contact Name:	JAMES STEVENS
Contact Address:	9229 SUNSET BLVD #618
Contact City,State,Zip:	WEST HOLLYWOOD, CA 90069
Contact Telephone:	310-395-9030
Contact Fax:	Not reported
Contact Email:	LIZE@PWSEI.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported

LOS GATOS SNF LLC (Continued) **1024750755**

Mailing Address:	9229 SUNSET BLVD #618
Mailing City,State,Zip:	WEST HOLLYWOOD, CA 90069
Owner Name:	Los Gatos Snf Llc
Owner Type:	Other
Operator Name:	James Stevens
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: LOS GATOS SNF LLC	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	9229 SUNSET BLVD #618
Owner/Operator City,State,Zip:	WEST HOLLYWOOD, CA 90069
Owner/Operator Telephone:	310-395-9030

LOS GATOS SNF LLC (Continued) **1024750755**

Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: JAMES STEVENS
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 9229 SUNSET BLVD #618
Owner/Operator City,State,Zip: WEST HOLLYWOOD, CA 90069
Owner/Operator Telephone: 310-395-9030
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20180712
Handler Name: LOS GATOS SNF LLC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E MANIFEST:
Manifest Tracking Number: 016259651JJK
Last Updated Date: 20190417
Shipped Date: 20180730
Received Date: 20180802
Manifest Status: Signed
Submission Type: DataImage5Copy
Origin Type: Mail
Generator EPA ID: CAC002970545
Generator Name: LOS GATOS SNF LLC 48-007675
Generator Mail Street Number: Not reported
Generator Mail Street 1: 16601 LARK AVE UNITS 6,8
Generator Mail Street 2: Not reported
Generator Mail City: LOS GATOS

LOS GATOS SNF LLC (Continued) **1024750755**

Generator Mail State:	CA
Generator Mail Zip:	95032
Generator Location Street Number:	Not reported
Generator Location Street 1:	16601 LARK AVE UNITS 6,8
Generator Location Street 2:	Not reported
Generator Location City:	LOS GATOS
Generator Location Zip:	95032
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD982042475
Designated Facility Name:	B & J LANDFILL
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	831 DAVIS ST
Designated Facility Mail City:	VACAVILLE
Designated Facility Mail Zip:	95688
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	6426 HAY RD
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	VACAVILLE
Designated Facility Location Zip:	95688
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

State Waste:

Manifest Tracking Number:	016259651JJK
Waste Line Number:	1
State Waste Code Owner:	CA
State Waste Code:	151
State Waste:	Asbestos-containing waste

Transporter:

Manifest Tracking Number:	016259651JJK
Transporter Line Number:	1
Transporter EPA ID:	CAR000050815
Transporter Name:	P W STEPHENS ENVIRONMENTAL INC

Manifest Tracking Number:	016259651JJK
Transporter Line Number:	2
Transporter EPA ID:	CAR000272773
Transporter Name:	UNI WASTE LLC

Waste Line:

Manifest Tracking Number:	016259651JJK
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	NA2212
U.S. DOT Description:	RQ NA2212, Asbestos, 9, PGIII
Non-Hazardous Waste Description:	Not reported
Number of Containers:	210
Container Type Code:	BA
Container Type Description:	Burlap, cloth, paper, or plastic bags
Waste Quantity:	21

LOS GATOS SNF LLC (Continued) **1024750755**

Quantity Unit of Measure Code:	Y
Quantity Unit of Measure Description:	Cubic Yards
Waste Quantity, in Tons:	17.64
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	17.64
Waste Quantity, in Kilograms:	16000.009
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	16000.009
Management Method Code:	H132
Management Method Description:	LANDFILL (WITH PRIOR TREATMENT AND/OR STABILIZATION)
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	Y

G34 **ATLAS OILFIELD SERVICES** **RCRA-SQG** **1000157610**
WNW **100 NE8905F BAY 4 ALBRIGHT** **FINDS** **CAD981963937**
1/8-1/4 **LOS GATOS, CA 95030** **ECHO**
0.211 mi.
1116 ft. **Site 1 of 2 in cluster G**

Relative: **Higher**

Actual: **287 ft.**

RCRA Listings:

Date Form Received by Agency:	19960901
Handler Name:	Atlas Oilfield Services
Handler Address:	100 Ne8905f Bay 4 Albright
Handler City,State,Zip:	LOS GATOS, CA 95030
EPA ID:	CAD981963937
Contact Name:	Not reported
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Ca
State District:	2
Mailing Address:	160 B ALBRIGHT WAY
Mailing City,State,Zip:	LOS GATOS, CA 95030
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not Required

ATLAS OILFIELD SERVICES (Continued) **1000157610**

Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: NOT REQUIRED	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner

ATLAS OILFIELD SERVICES (Continued) **1000157610**

Owner/Operator Name: LOS GATOS BUS PK
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19960901
Handler Name: ATLAS OILFIELD SERVICES
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Ca
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19870311
Handler Name: ATLAS OILFIELD SERVICES
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ca
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110002757133

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Resource Conservation and Recovery Act Information System

ATLAS OILFIELD SERVICES (Continued) **1000157610**

(RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000157610
Registry ID:	110002757133
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002757133
Name:	ATLAS OILFIELD SERVICES
Address:	100 NE8905F BAY 4 ALBRIGHT
City,State,Zip:	LOS GATOS, CA 95030

H35 **PG&E VASONA SUB** **RCRA NonGen / NLR** **1027683740**
WNW **14700 WINCHESTER BLVD.** **CAC003225700**
1/8-1/4 **LOS GATOS, CA 95032**
0.212 mi.
1119 ft. **Site 1 of 7 in cluster H**

Relative: **Higher**
Actual: **292 ft.**

RCRA Listings:

Date Form Received by Agency:	20230403
Handler Name:	Pg&E Vasona Sub
Handler Address:	14700 Winchester Blvd.
Handler City,State,Zip:	LOS GATOS, CA 95032
EPA ID:	CAC003225700
Contact Name:	DAVID HENDRICKS
Contact Address:	111 ALMADEN BLVD.
Contact City,State,Zip:	SAN JOSE, CA 95113
Contact Telephone:	925-765-9116
Contact Fax:	Not reported
Contact Email:	D5HM@PGE.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 7640
Mailing City,State,Zip:	SAN FRANCISCO, CA 94120
Owner Name:	Pacific Gas And Electric Company
Owner Type:	Other
Operator Name:	David Hendricks
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No

PG&E VASONA SUB (Continued) **1027683740**

Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20230403
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: DAVID HENDRICKS	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	111 ALMADEN BLVD.
Owner/Operator City,State,Zip:	SAN JOSE, CA 95113
Owner/Operator Telephone:	925-765-9116
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: PACIFIC GAS AND ELECTRIC COMPANY	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 7640
Owner/Operator City,State,Zip:	SAN FRANCISCO, CA 94120
Owner/Operator Telephone:	925-765-9116
Owner/Operator Telephone Ext:	Not reported

PG&E VASONA SUB (Continued) **1027683740**

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20230403
Handler Name: PG&E VASONA SUB
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 221121
NAICS Description: ELECTRIC BULK POWER TRANSMISSION AND CONTROL

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

H36 **SANTA CLARA COUNTY FIRE DISTRICT** **RCRA-SQG** **1000354344**
WNW **14700 WINCHESTER BL** **FINDS** **CAD982480154**
1/8-1/4 **LOS GATOS, CA 95030** **ECHO**
0.212 mi. **PFAS ECHO**
1119 ft. **Site 2 of 7 in cluster H**

Relative: Higher
Actual: 292 ft.

RCRA Listings:
Date Form Received by Agency: 19880718
Handler Name: Source Technology Corporation
Handler Address: Winchester Blvd
Handler City,State,Zip: LOS GATOS, CA 95030
EPA ID: CAD982480154
Contact Name: ENVIRONMENTAL MANAGER
Contact Address: 14700 WINCHESTER BLVD
Contact City,State,Zip: LOS GATOS, CA 95030
Contact Telephone: 408-378-9800
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Small Quantity Generator
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: Ca
State District: 2

SANTA CLARA COUNTY FIRE DISTRICT (Continued) **1000354344**

Mailing Address:	WINCHESTER BLVD
Mailing City,State,Zip:	LOS GATOS, CA 95030
Owner Name:	Charles Petefish
Owner Type:	Private
Operator Name:	Not Required
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20000915
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: NOT REQUIRED	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212

SANTA CLARA COUNTY FIRE DISTRICT (Continued) **1000354344**

Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: CHARLES PETEFISH
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19880718
Handler Name: SOURCE TECHNOLOGY CORPORATION
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Ca
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110055916861

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The California Environmental Reporting System (CERS) is a statewide web-based user and information exchange system to support over 140,000 regulated businesses and over 130 local agencies in electronically collecting and reporting significant hazardous materials, hazardous waste and compliance and enforcement data as mandated by California law. Under oversight by Cal/EPA, certified local governing agencies (Unified Program Agencies - UPAs) consolidate, coordinate and provide consistent regulatory activities for six state and federal environmental programs.

SANTA CLARA COUNTY FIRE DISTRICT (Continued) **1000354344**

THE EMISSION INVENTORY SYSTEM (EIS) MAINTAINS AN INVENTORY OF LARGE STATIONARY SOURCES AND VOLUNTARILY-REPORTED SMALLER SOURCES OF AIR POINT POLLUTANT EMITTERS. IT CONTAINS INFORMATION ABOUT FACILITY SITES AND THEIR PHYSICAL LOCATION, EMISSIONS UNITS, EMISSIONS PROCESSES, RELEASE POINTS, CONTROL APPROACHES, AND REGULATIONS. FACILITY INVENTORY DATA ARE KEPT SEPARATE FROM THE EMISSIONS DATA AND HAVE STABLE IDENTIFIERS TO IMPROVE CONTINUITY FROM YEAR TO YEAR AND TO HELP IDENTIFY DUPLICATE OR MISSING FACILITIES

Registry ID: 110070522966

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

THE EMISSION INVENTORY SYSTEM (EIS) MAINTAINS AN INVENTORY OF LARGE STATIONARY SOURCES AND VOLUNTARILY-REPORTED SMALLER SOURCES OF AIR POINT POLLUTANT EMITTERS. IT CONTAINS INFORMATION ABOUT FACILITY SITES AND THEIR PHYSICAL LOCATION, EMISSIONS UNITS, EMISSIONS PROCESSES, RELEASE POINTS, CONTROL APPROACHES, AND REGULATIONS. FACILITY INVENTORY DATA ARE KEPT SEPARATE FROM THE EMISSIONS DATA AND HAVE STABLE IDENTIFIERS TO IMPROVE CONTINUITY FROM YEAR TO YEAR AND TO HELP IDENTIFY DUPLICATE OR MISSING FACILITIES

Registry ID: 110002824597

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000354344
Registry ID:	110002824597
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002824597
Name:	SOURCE TECHNOLOGY CORPORATION
Address:	14700 WINCHESTER BLVD
City,State,Zip:	LOS GATOS, CA 95030

PFAS ECHO:

Name:	CENTRAL FIRE PROTECTION DISTRICT
Address:	Not reported
City,State,Zip:	LOS GATOS, CA
Latitude:	37.254558
Longitude:	-121.965588
Count:	1
County:	SANTA CLARA
Status:	Unknown
Region:	09
Industry:	Fire Protection
ECHO Facility Report:	https://echo.epa.gov/detailed-facility-report?fid=110070522966
Facility Percent Minority:	37.023
Facility Derived Tribes:	-

SANTA CLARA COUNTY FIRE DISTRICT (Continued) **1000354344**

Facility Population:	4717.63
EPA Programs:	-
Federal Facility:	No
Federal Agency:	-
Facility FIPS Code:	06085
Facility Indian Country Flag:	N
Facility Collection Method:	-
Facility Derived HUC:	18050003
Facility Derived WBD:	180500030303
Facility Derived CD113:	18
Facility Derived CB2010:	060855072031016
Facility Major Flag:	-
Facility Active Flag:	-
Facility Inspection Count:	0
Facility Date Last Inspection:	-
Facility Days Last Inspection:	-
Facility Informal Count:	0
Facility Date Last Informal Action:	-
Facility Formal Action Count:	0
Facility Date Last Formal Action:	-
Facility Total Penalties:	0
Facility Penalty Count:	-
Facility Date Last Penalty:	-
Facility Last Penalty AMT:	-
Facility QTRS With NC:	-
Facility Programs With SNC:	0
Facility Compliance Status:	-
Facility SNC Flag:	N
AIR Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AIR IDS:	-
CAA Permit Types:	-
CAA NAICS:	-
CAA SICS:	-
NPDES IDS:	-
CWA Permit Types:	-
CWA NAICS:	-
CWA SICS:	-
RCRA IDS:	-
RCRA Permit Types:	-
RCRA NAICS:	-
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N
TRI IDS:	-
TRI Releases Transfers:	-
TRI On Site Releases:	-
TRI Off Site Transfers:	-
TRI Reporter:	-
Facility IMP Water Flag:	-
EJSCREEN Flag US:	N
EJSCREEN Report:	https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%

SANTA CLARA COUNTY FIRE DISTRICT (Continued) **1000354344**

7B%22x%22:-121.965588,%22y%22:37.254558,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1

Name:	SANTA CLARA COUNTY FIRE DISTRICT
Address:	Not reported
City,State,Zip:	LOS GATOS, CA
Latitude:	37.25456
Longitude:	-121.96549
Count:	1
County:	SANTA CLARA
Status:	Unknown
Region:	09
Industry:	Fire Protection
ECHO Facility Report:	https://echo.epa.gov/detailed-facility-report?fid=110055916861
Facility Percent Minority:	37.053
Facility Derived Tribes:	-
Facility Population:	4719.79
EPA Programs:	-
Federal Facility:	No
Federal Agency:	-
Facility FIPS Code:	06085
Facility Indian Country Flag:	N
Facility Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Facility Derived HUC:	18050003
Facility Derived WBD:	180500030303
Facility Derived CD113:	18
Facility Derived CB2010:	060855072031016
Facility Major Flag:	-
Facility Active Flag:	-
Facility Inspection Count:	0
Facility Date Last Inspection:	-
Facility Days Last Inspection:	-
Facility Informal Count:	0
Facility Date Last Informal Action:	-
Facility Formal Action Count:	0
Facility Date Last Formal Action:	-
Facility Total Penalties:	0
Facility Penalty Count:	-
Facility Date Last Penalty:	-
Facility Last Penalty AMT:	-
Facility QTRS With NC:	-
Facility Programs With SNC:	0
Facility Compliance Status:	-
Facility SNC Flag:	N
AIR Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AIR IDS:	-
CAA Permit Types:	-
CAA NAICS:	-
CAA SICS:	-
NPDES IDS:	-
CWA Permit Types:	-

SANTA CLARA COUNTY FIRE DISTRICT (Continued) **1000354344**

CWA NAICS:	-
CWA SICS:	-
RCRA IDS:	-
RCRA Permit Types:	-
RCRA NAICS:	-
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N
TRI IDS:	-
TRI Releases Transfers:	-
TRI On Site Releases:	-
TRI Off Site Transfers:	-
TRI Reporter:	-
Facility IMP Water Flag:	-
EJSCREEN Flag US:	N
EJSCREEN Report:	https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-121.96549,%22y%22:37.25456,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1
Name:	SANTA CLARA COUNTY FIRE DISTRICT
Address:	Not reported
City,State,Zip:	LOS GATOS, CA
Latitude:	37.231942
Longitude:	-121.958486
Count:	1
County:	SANTA CLARA
Status:	Active
Region:	09
Industry:	Fire Protection
ECHO Facility Report:	https://echo.epa.gov/detailed-facility-report?fid=110070462065
Facility Percent Minority:	30.348
Facility Derived Tribes:	-
Facility Population:	2858.59
EPA Programs:	RCRA
Federal Facility:	No
Federal Agency:	-
Facility FIPS Code:	06085
Facility Indian Country Flag:	N
Facility Collection Method:	-
Facility Derived HUC:	18050003
Facility Derived WBD:	180500030304
Facility Derived CD113:	18
Facility Derived CB2010:	060855069004044
Facility Major Flag:	-
Facility Active Flag:	Y
Facility Inspection Count:	0
Facility Date Last Inspection:	-
Facility Days Last Inspection:	-
Facility Informal Count:	0
Facility Date Last Informal Action:	-
Facility Formal Action Count:	0
Facility Date Last Formal Action:	-
Facility Total Penalties:	0
Facility Penalty Count:	-
Facility Date Last Penalty:	-
Facility Last Penalty AMT:	-

SANTA CLARA COUNTY FIRE DISTRICT (Continued) **1000354344**

Facility QTRS With NC:	0
Facility Programs With SNC:	0
Facility Compliance Status:	No Violation Identified
Facility SNC Flag:	N
AIR Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AIR IDS:	-
CAA Permit Types:	-
CAA NAICS:	-
CAA SICS:	-
NPDES IDS:	-
CWA Permit Types:	-
CWA NAICS:	-
CWA SICS:	-
RCRA IDS:	CAC002970492
RCRA Permit Types:	Other
RCRA NAICS:	56299
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N
TRI IDS:	-
TRI Releases Transfers:	-
TRI On Site Releases:	-
TRI Off Site Transfers:	-
TRI Reporter:	-
Facility IMP Water Flag:	-
EJSCREEN Flag US:	N
EJSCREEN Report:	https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-121.958486,%22y%22:37.231942,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1

H37 **SCCFD - HEADQUARTERS** **UST** **U004349759**
WNW **14700 WINCHESTER BL** **N/A**
1/8-1/4 **LOS GATOS, CA 95032**
0.212 mi.
1119 ft. **Site 3 of 7 in cluster H**

Relative: UST:
Higher

Actual: Name: SCCFD - HEADQUARTERS
292 ft. Address: 14700 WINCHESTER BL
City,State,Zip: LOS GATOS, CA 95032
Facility ID: 68
Permitting Agency: CAMPBELL,CUPERTINO,LOS GATOS,MORGAN HILL
CERSID: Not reported
Latitude: 37.255913
Longitude: -121.96426
Owner type: Not reported
Facility type: Not reported
Num of inuse ust: Not reported
Num of closed ust: Not reported
Num of oos ust: Not reported
Epa region: Not reported

SCCFD - HEADQUARTERS (Continued) **U004349759**

Tribal lands:	Not reported
Tank owner name:	Not reported
Tank owner mailing address:	Not reported
Tank owner mailing city:	Not reported
Tank owner mailing zip:	Not reported
Tank owner mailing state:	Not reported
Tank operator name:	Not reported
Tank operator mailing address:	Not reported
Tank operator mailing city:	Not reported
Tank operator mailing zip:	Not reported
Tank operator mailing state:	Not reported
Tankidnumber:	Not reported
Tank status:	Not reported
Tank configuration:	Not reported
Tank closure date:	Not reported
Tank installation date:	Not reported
Tank num of compartments:	Not reported
Tank contents:	Not reported
Tank capacity gallons:	Not reported
Tank type:	Not reported
Tank pc construction:	Not reported
Tank pwpiping construction:	Not reported
Tank piping type:	Not reported
Tank piping construction:	Not reported
Tank sacrificial anode:	Not reported
Tank cp impressed current:	Not reported
Tank cp shutoff:	Not reported
Tank alarms:	Not reported
Tank ball float:	Not reported
Tank spill bucket:	Not reported

H38 **SCCFD HEADQUARTERS** **UST FINDER** **1028181656**
WNW **14700 WINCHESTER BL** **N/A**
1/8-1/4 **LOS GATOS, CA 95032**
0.212 mi.
1119 ft. **Site 4 of 7 in cluster H**

Relative: **Higher**

Actual: **292 ft.**

UST FINDER:

Object ID:	725887
Facility ID:	CA10075717
Name:	SCCFD HEADQUARTERS
Address:	14700 WINCHESTER BL
City,State,Zip:	LOS GATOS, CA 95032
Address Match Type:	PointAddress
Open USTs:	1
Closed USTs:	Not reported
TOS USTs:	Not reported
Population 1500ft:	813
Private Wells 1500ft:	0
Within 100yr Floodplain:	No
Land Use:	Developed, Medium Intensity
Within SPA:	Not reported
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	Yes
WHPA PWS Facility ID:	CA4310011_54873

SCCFD HEADQUARTERS (Continued) **1028181656**

WHPA Water Type:	GW - Ground water
WHPA Facility Type:	WL - Well
WHPA HUC12:	180500030303
Facility Status:	Open UST(s)
Date of Last Inspection:	Not reported
EPA Region:	9
Tribe:	Not reported
Coordinate Source:	Geocode
X Coord:	-121.965511982
Y Coord:	37.2545720110001
Latitude:	37.2545720111833
Longitude:	-121.965511982313

UST FINDER:

Object ID:	2243279
Facility ID:	CA10075717
Tank ID:	CA10075717-001_A Stand-alone Tank_1
Tank Status:	Open
Installation Date:	1992/08/10 15:59:59+00
Removal Date:	Not reported
Tank Capacity:	4000
Substances:	Regular Unleaded
Tank Wall Type:	Double Wall

H39 **SCCFD HEADQUARTERS** **CERS TANKS** **S121746598**
WNW **14700 WINCHESTER BL** **HWTS** **N/A**
1/8-1/4 **LOS GATOS, CA 95032** **CERS**
0.212 mi.
1119 ft. **Site 5 of 7 in cluster H**

Relative: **Higher**

Actual: **292 ft.**

CERS TANKS:

Name:	SCCFD HEADQUARTERS
Address:	14700 WINCHESTER BL
City,State,Zip:	LOS GATOS, CA 95032
Site ID:	151469
CERS ID:	10075717
CERS Description:	Underground Storage Tank

HWTS:

Name:	PG&E VASONA SUB
Address:	14700 WINCHESTER BLVD.
Address 2:	Not reported
City,State,Zip:	LOS GATOS, CA 95032
EPA ID:	CAC003225700
Inactive Date:	07/03/2023
Create Date:	04/03/2023
Last Act Date:	07/04/2023
Mailing Name:	Not reported
Mailing Address:	PO BOX 7640
Mailing Address 2:	Not reported
Mailing City,State,Zip:	SAN FRANCISCO, CA
Owner Name:	PACIFIC GAS AND ELECTRIC COMPANY
Owner Address:	PO BOX 7640
Owner Address 2:	Not reported
Owner City,State,Zip:	SAN FRANCISCO, CA 94120
Owner Phone:	9257659116
Owner Fax:	Not reported

SCCFD HEADQUARTERS (Continued) **S121746598**

Contact Name: DAVID HENDRICKS
Contact Address: 111 ALMADEN BLVD.
Contact Address 2: Not reported
City,State,Zip: SAN JOSE, CA 95113
Contact Phone: 9257659116
Contact Fax: Not reported
Facility Status: Not reported
Facility Type: Not reported
Category: Not reported
Latitude: Not reported
Longitude: Not reported

CERS:
Name: SANTA CLARA COUNTY FIRE DISTRICT
Address: 14700 WINCHESTER BL
City,State,Zip: LOS GATOS, CA 95030
Site ID: 492462
CERS ID: 110055916861
CERS Description: US EPA Air Emission Inventory System (EIS)

Affiliation:
Affiliation Type Desc: Operator
Entity Name: SANTA CLARA CNTY FIRE DEPT
Entity Title: OPERATOR
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact
Entity Name: HAZARDOUS MATL SPCLTY
Entity Title: ENVIRONMENTAL CONTACT
Affiliation Address: 14700 WINCHESTER BLVD
Affiliation City: LOSGATOS
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Facility Owner
Entity Name: SANTA CLARA CNTY FIRE DEPT
Entity Title: OWNER
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Name: SCCFD HEADQUARTERS
Address: 14700 WINCHESTER BL
City,State,Zip: LOS GATOS, CA 95032
Site ID: 151469
CERS ID: 10075717

SCCFD HEADQUARTERS (Continued) **S121746598**

CERS Description: Chemical Storage Facilities

Violations:

Site ID: 151469
Site Name: SCCFD Headquarters
Violation Date: 12-23-2020
Citation: 23 CCR 16 2665(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665(b)
Violation Description: "Failure to submit a copy of the overfill prevention equipment inspection results on the Overfill Prevention Equipment Inspection Report Form to the UPA within 30 days after the inspection. "
Violation Notes: Follow up overfill equipment inspection results not submitted (following initial failed inspection).
Violation Division: Santa Clara County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 151469
Site Name: SCCFD Headquarters
Violation Date: 12-13-2022
Citation: HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description: "Failure to meet one or more of the following requirements: Install or maintain a liquid-tight spill container. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill container. Be resistant to galvanic corrosion. Perform a tightness test at installation, every 12 months thereafter, or within 30 days after a repair to the spill container. Tested using applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Tested by a certified UST service technician. Maintain records of spill containment testing for 36 months. "
Violation Notes: The spill bucketed failed testing. Possible leaking gasket. Repair and retest required.
Violation Division: Santa Clara County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 151469
Site Name: SCCFD Headquarters
Violation Date: 12-13-2022
Citation: 23 CCR 16 2715(c)(4) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)(4)
Violation Description: Failure to maintain a list of employees trained by the designated operator on-site or off-site at a readily available location, if approved by the UPA. For training that occurs on or after October 1, 2018, failure to maintain a copy of the "Facility Employee Training Certificate" on-site or off-site at a readily available location, if approved by the UPA.
Violation Notes: DO training record is missing the DO signature and date.
Violation Division: Santa Clara County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 151469
Site Name: SCCFD Headquarters
Violation Date: 12-23-2020

SCCFD HEADQUARTERS (Continued) **S121746598**

Citation: 23 CCR 16 2715(c)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)(2)
Violation Description: Failure to have at least one facility employee present during operating hours that has been trained in the proper operation and maintenance of the UST system by a designated operator (DO).
Violation Notes: Facility employee training is overdue.
Violation Division: Santa Clara County Fire Department
Violation Program: UST
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-30-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Clara County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-11-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Occupancy ID: 2325
Eval Division: Santa Clara County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-31-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Occupancy ID: 2325
Eval Division: Santa Clara County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-05-2023
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Clara County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-05-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Occupancy ID: 2325
Eval Division: Santa Clara County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection

SCCFD HEADQUARTERS (Continued) **S121746598**

Eval Date: 12-13-2022
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Clara County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-14-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Occupancy ID: 2325
Eval Division: Santa Clara County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-22-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Occupancy ID: 2325
Eval Division: Santa Clara County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-23-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Clara County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-23-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Occupany ID: 2325
Eval Division: Santa Clara County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-11-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Occupancy ID: 2325
Eval Division: Santa Clara County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-14-2016
Violations Found: No
Eval Type: Routine done by local agency

SCCFD HEADQUARTERS (Continued) **S121746598**

Eval Notes: Occupancy ID: 2325
Eval Division: Santa Clara County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-22-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Occupancy ID: 2325
Eval Division: Santa Clara County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-23-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Occupany ID: 2325
Eval Division: Santa Clara County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-30-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Occupancy ID: 2325
Eval Division: Santa Clara County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-30-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Occupancy ID: 2325
Eval Division: Santa Clara County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-05-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Occupancy ID: 2325
Eval Division: Santa Clara County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-17-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Occupany ID: 2325
Eval Division: Santa Clara County Fire Department
Eval Program: UST

SCCFD HEADQUARTERS (Continued) **S121746598**

Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-31-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Occupancy ID: 2325
Eval Division: Santa Clara County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 14700 WINCHESTER BL
Affiliation City: LOS GATOS
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95032
Affiliation Phone: ,

Affiliation Type Desc: CUPA District
Entity Name: Santa Clara County Environmental Health
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: San Jose
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95112-2716
Affiliation Phone: (408) 918-3400,

Affiliation Type Desc: Legal Owner
Entity Name: Santa Clara County Fire Dept
Entity Title: Not reported
Affiliation Address: 14700 WINCHESTER BL
Affiliation City: LOS GATOS
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95030
Affiliation Phone: (408) 378-4010,

Affiliation Type Desc: Parent Corporation
Entity Name: SCCFD Headquarters
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Property Owner
Entity Name: SANTA CLARA COUNTY FIRE DEPT
Entity Title: Not reported
Affiliation Address: 14700 WINCHESTER BLVD.
Affiliation City: LOS GATOS

SCCFD HEADQUARTERS (Continued) **S121746598**

Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95030
Affiliation Phone: (408) 378-4010,

Affiliation Type Desc: UST Property Owner Name
Entity Name: SANTA CLARA COUNTY FIRE DEPT
Entity Title: Not reported
Affiliation Address: 14700 WINCHESTER BL
Affiliation City: LOS GATOS
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95032
Affiliation Phone: (408) 378-4010,

Affiliation Type Desc: Environmental Contact
Entity Name: Lindsay Gipe
Entity Title: Not reported
Affiliation Address: 14700 Winchester Blvd.
Affiliation City: Los Gatos
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95032-1818
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: SANTA CLARA COUNTY FIRE DEPT.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (408) 378-4010,

Affiliation Type Desc: Document Preparer
Entity Name: Lindsay Gipe
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: Lindsay Gipe
Entity Title: Hazardous Materials Specialist
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: UST Permit Applicant
Entity Name: Michael Benjamin

SCCFD HEADQUARTERS (Continued) **S121746598**

Entity Title:	Hazardous Materials Specialist
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(408) 378-4010,
Affiliation Type Desc:	UST Tank Operator
Entity Name:	Santa Clara County Fire Dept
Entity Title:	Not reported
Affiliation Address:	14700 WINCHESTER BL
Affiliation City:	LOS GATOS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95032
Affiliation Phone:	(408) 378-4010,
Affiliation Type Desc:	UST Tank Owner
Entity Name:	Santa Clara County Fire Dept
Entity Title:	Not reported
Affiliation Address:	SANTA CLARA COUNTY FIRE DEPT
Affiliation City:	LOS GATOS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95032
Affiliation Phone:	(408) 378-4010,

H40 **SCCFD HEADQUARTERS** **UST** **U004348201**
WNW **14700 WINCHESTER BL** **N/A**
1/8-1/4 **LOS GATOS, CA 95032**
0.212 mi.
1119 ft. **Site 6 of 7 in cluster H**

Relative: **Higher**
Actual: **292 ft.**

UST:

Name:	SCCFD HEADQUARTERS
Address:	14700 WINCHESTER BL
City,State,Zip:	LOS GATOS, CA 95032
Facility ID:	43-003-002325
Permitting Agency:	Santa Clara County Environmental Health
CERSID:	10075717
Latitude:	37.2545624
Longitude:	-121.965606
Owner type:	Local Agency/District
Facility type:	Motor Vehicle Fueling
Num of inuse ust:	Not reported
Num of closed ust:	0
Num of oos ust:	0
Epa region:	9
Tribal lands:	No
Tank owner name:	SANTA CLARA COUNTY FIRE DEPT
Tank owner mailing address:	SANTA CLARA COUNTY FIRE DEPT
Tank owner mailing city:	LOS GATOS
Tank owner mailing zip:	95032
Tank owner mailing state:	CA
Tank operator name:	SANTA CLARA COUNTY FIRE DEPT
Tank operator mailing address:	14700 WINCHESTER BL

SCCFD HEADQUARTERS (Continued) **U004348201**

Tank operator mailing city:	LOS GATOS
Tank operator mailing zip:	95032
Tank operator mailing state:	CA
Tankidnumber:	1
Tank status:	Confirmed/Updated Information
Tank configuration:	Stand Alone Tank
Tank closure date:	Not reported
Tank installation date:	8/10/1992 12:00:00 AM
Tank num of compartments:	1
Tank contents:	Regular Unleaded
Tank capacity gallons:	4000
Tank type:	Double Wall
Tank pc construction:	Fiberglass
Tank pwpiping construction:	Fiberglass
Tank piping type:	Conventional Suction
Tank piping construction:	Double Walled
Tank sacrificial anode:	No
Tank cp impressed current:	No
Tank cp shutoff:	Yes
Tank alarms:	No
Tank ball float:	No
Tank spill bucket:	Yes

H41 **CAL FIRE** **SWEEPS UST** **S101594575**
WNW **14700 WINCHESTER BLVD** **CA FID UST** **N/A**
1/8-1/4 **LOS GATOS, CA 95032** **HWTS**
0.212 mi. **HAZNET**
1119 ft. **Site 7 of 7 in cluster H**

Relative: **Higher**
Actual: **292 ft.**

SWEEPS UST:

Name:	CFPD HEADQUARTERS
Address:	14700 WINCHESTER BLVD
City:	LOS GATOS
Status:	Active
Comp Number:	3882
Number:	4
Board Of Equalization:	44-034280
Referral Date:	08-11-92
Action Date:	09-29-92
Created Date:	09-29-92
Owner Tank Id:	Not reported
SWRCB Tank Id:	43-003-003882-000001
Tank Status:	A
Capacity:	4000
Active Date:	08-11-92
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	1

CA FID UST:

Facility ID:	43007255
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4083784010

CAL FIRE (Continued) **S101594575**

Mail To: Not reported
Mailing Address: 14700 WINCHESTER BLVD
Mailing Address 2: Not reported
Mailing City,St,Zip: LOS GATOS 95030
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

HWTS:
Name: CAL FIRE
Address: 14700 WINCHESTER BLVD
Address 2: Not reported
City,State,Zip: LOS GATOS, CA 95032
EPA ID: CAC002848859
Inactive Date: 05/14/2016
Create Date: 02/12/2016
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 1131 S ST
Mailing Address 2: Not reported
Mailing City,State,Zip: SACRAMENTO, CA 958116524
Owner Name: SACRAMENTO
Owner Address: 1131 S ST
Owner Address 2: Not reported
Owner City,State,Zip: SACRAMENTO, CA 958116524
Owner Phone: Not reported
Owner Fax: Not reported
Contact Name: JAMES PARSEGIAN
Contact Address: 1131 S ST
Contact Address 2: Not reported
City,State,Zip: SACRAMENTO, CA 958116524
Contact Phone: Not reported
Contact Fax: Not reported
Facility Status: Inactive
Facility Type: TEMPORARY
Category: STATE
Latitude: 37.254387
Longitude: -121.966657

NAICS:
EPA ID: CAC002848859
Create Date: 2016-02-12 13:02:14.700
NAICS Code: 92216
NAICS Description: Fire Protection
Issued EPA ID Date: 2016-02-12 13:02:14.70000
Inactive Date: 2016-05-14 03:00:23.33000
Facility Name: CAL FIRE
Facility Address: 14700 WINCHESTER BLVD
Facility Address 2: Not reported
Facility City: LOS GATOS
Facility County: Not reported
Facility State: CA
Facility Zip: 950321818

CAL FIRE (Continued) **S101594575**

HAZNET:

Name:	CAL FIRE
Address:	14700 WINCHESTER BLVD
Address 2:	Not reported
City,State,Zip:	LOS GATOS, CA 950321818
Contact:	JAMES PARSEGIAN
Telephone:	9164458200
Mailing Name:	Not reported
Mailing Address:	1131 S ST
Year:	2016
Gepaid:	CAC002848859
TSD EPA ID:	LAD981055791
CA Waste Code:	352 - Other organic solids
Disposal Method:	H129 - Other Treatment
Tons:	0.15
Year:	2016
Gepaid:	CAC002848859
TSD EPA ID:	CAD981382732
CA Waste Code:	151 - Asbestos containing waste
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.23

G42 **SPAFFORD PROPERTY** **SWEEPS UST** **S102799424**
NW **14561 WINCHESTER BLVD** **N/A**
1/8-1/4 **LOS GATOS, CA 95030**
0.223 mi.
1176 ft. **Site 2 of 2 in cluster G**

Relative:
Higher

Actual:
284 ft.

SWEEPS UST:

Name:	SPAFFORD PROPERTY
Address:	14561 WINCHESTER BLVD
City:	LOS GATOS
Status:	Not reported
Comp Number:	246
Number:	Not reported
Board Of Equalization:	44-035824
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	43-003-000246-000001
Tank Status:	Not reported
Capacity:	400
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	1

43
NNE
1/8-1/4
0.225 mi.
1189 ft.

RICHARD & AARTHI CAPATOSTO
107 PASEO LAURA
LOS GATOS, CA 95032

RCRA NonGen / NLR **1027215191**
E MANIFEST **CAC003179871**

Relative:
Lower

Actual:
257 ft.

RCRA Listings:

Date Form Received by Agency:	20220608
Handler Name:	Richard & Aarthi Capatosto
Handler Address:	107 Paseo Laura
Handler City,State,Zip:	LOS GATOS, CA 95032
EPA ID:	CAC003179871
Contact Name:	RICHARD & AARTHI CAPATOSTO
Contact Address:	107 PASEO LAURA
Contact City,State,Zip:	LOS GATOS, CA 95032
Contact Telephone:	408-596-4664
Contact Fax:	Not reported
Contact Email:	GISELLE.ESPIRITU@SYNERGYCOMPANIES.ORG
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	107 PASEO LAURA
Mailing City,State,Zip:	LOS GATOS, CA 95032
Owner Name:	Richard & Aarthi Capatosto
Owner Type:	Other
Operator Name:	Richard & Aarthi Capatosto
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No

RICHARD & AARTHI CAPATOSTO (Continued) **1027215191**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20220608
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	RICHARD & AARTHI CAPATOSTO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	107 PASEO LAURA
Owner/Operator City,State,Zip:	LOS GATOS, CA 95032
Owner/Operator Telephone:	408-596-4664
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	RICHARD & AARTHI CAPATOSTO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	107 PASEO LAURA
Owner/Operator City,State,Zip:	LOS GATOS, CA 95032
Owner/Operator Telephone:	408-596-4664
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20220608
Handler Name:	RICHARD & AARTHI CAPATOSTO
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

RICHARD & AARTHI CAPATOSTO (Continued) **1027215191**

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E MANIFEST:

Manifest Tracking Number:	022694229JJK
Last Updated Date:	20220630
Shipped Date:	20220609
Received Date:	20220614
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAC003179871
Generator Name:	RICHARD & AARTHI CAPATOSTO
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	107 PASEO LAURA
Generator Mail Street 2:	Not reported
Generator Mail City:	LOS GATOS
Generator Mail State:	CA
Generator Mail Zip:	95032
Generator Location Street Number:	Not reported
Generator Location Street 1:	107 PASEO LAURA
Generator Location Street 2:	Not reported
Generator Location City:	LOS GATOS
Generator Location Zip:	95032
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD981382732
Designated Facility Name:	ALTAMONT LANDFILL & RESOURCE RECOVERY FACILITY
Designated Facility Mail Street Number:	10840
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	ALTAMONT PASS RD
Designated Facility Mail City:	LIVERMORE
Designated Facility Mail Zip:	94551
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	10840
Designated Facility Location Street 1:	ALTAMONT PASS RD
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	LIVERMORE
Designated Facility Location Zip:	94551
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

State Waste:

Manifest Tracking Number:	022694229JJK
Waste Line Number:	1

RICHARD & AARTHI CAPATOSTO (Continued) **1027215191**

State Waste Code Owner: CA
State Waste Code: 151
State Waste: Asbestos-containing waste

Transporter:
Manifest Tracking Number: 022694229JJK
Transporter Line Number: 1
Transporter EPA ID: CAL000438487
Transporter Name: SYNERGY EE INC

Manifest Tracking Number: 022694229JJK
Transporter Line Number: 2
Transporter EPA ID: CAR000272773
Transporter Name: UNI WASTE LLC

Waste Line:
Manifest Tracking Number: 022694229JJK
Waste Line Number: 1
U.S. DOT Hazardous Indicator: Y
U.S. DOT ID Number: NA2212
U.S. DOT Description: NA2212, Asbestos, 9, PG III, RQ
Non-Hazardous Waste Description: Not reported
Number of Containers: 9
Container Type Code: BA
Container Type Description: Burlap, cloth, paper, or plastic bags
Waste Quantity: 1
Quantity Unit of Measure Code: Y
Quantity Unit of Measure Description: Cubic Yards
Waste Quantity, in Tons: 0.84
Acute Waste Quantity, in Tons: 0
Non-Acute Waste Quantity, in Tons: 0.84
Waste Quantity, in Kilograms: 761.9052
Acute Waste Quantity, in Kilograms: 0
Non-Acute Waste Quantity, in Kilorgrams: 761.9052
Management Method Code: H132
Management Method Description: LANDFILL (WITH PRIOR TREATMENT AND/OR STABILIZATION)
Waste Residue Indicator: N
Quantity Discrepancy Indicator: N
Waste Type Discrepancy Indicator: N
Waste Density: Not reported
Waste Density Unit of Measure Code: Not reported
Waste Density Unit of Measure Description: Not reported
Form Code: Not reported
Form Code Description: Not reported
Source Code: Not reported
Source Code Description: Not reported
Waste Minimization Code: Not reported
Waste Minimization Code Description: Not reported
Consent Number: Not reported
EPA Waste Indicator: N

44 WSW 1/8-1/4 0.246 mi. 1300 ft.

FINELINE PRINTED CIRCUIT DESIGN
16780 LARK AVE STE A
LOS GATOS, CA 95030

Database(s): RCRA-SQG, FINDS, ECHO, HWTS, HAZNET

EDR ID Number: 1001075594
EPA ID Number: CAR000006825

Relative: Higher
Actual: 299 ft.

RCRA Listings:

Date Form Received by Agency:	19951031
Handler Name:	Fineline Printed Circuit Design
Handler Address:	Lark Ave Ste A
Handler City,State,Zip:	LOS GATOS, CA 95030
EPA ID:	CAR000006825
Contact Name:	DOUG KIMBALL
Contact Address:	16780 LARK AVE STE A
Contact City,State,Zip:	LOS GATOS, CA 95030
Contact Telephone:	408-354-6658
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	LARK AVE STE A
Mailing City,State,Zip:	LOS GATOS, CA 95030
Owner Name:	Richard Davis
Owner Type:	Private
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No

FINELINE PRINTED CIRCUIT DESIGN (Continued) **1001075594**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20000915
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: RICHARD DAVIS	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	7193 WOODED LAKE DR
Owner/Operator City,State,Zip:	SAN JOSE, CA 95120
Owner/Operator Telephone:	408-268-0364
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19951031
Handler Name: FINELINE PRINTED CIRCUIT DESIGN	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

FINELINE PRINTED CIRCUIT DESIGN (Continued) **1001075594**

FINDS:
Registry ID: 110002908845

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1001075594
Registry ID:	110002908845
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002908845
Name:	FINELINE PRINTED CIRCUIT DESIGN
Address:	16780 LARK AVE STE A
City,State,Zip:	LOS GATOS, CA 95030

HWTS:

Name:	FINELINE PRINTED CIRCUIT DESIGN
Address:	16780 LARK AVE STE A
Address 2:	Not reported
City,State,Zip:	LOS GATOS, CA 95030
EPA ID:	CAR000006825
Inactive Date:	06/30/1998
Create Date:	06/20/1996
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	16780 LARK AVE STE A
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LOS GATOS, CA 950302315
Owner Name:	RICHARD DAVIS
Owner Address:	16780 LARK AVE STE A
Owner Address 2:	Not reported
Owner City,State,Zip:	LOS GATOS, CA 950302315
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	RICHARD DAVIS
Contact Address:	INACT PER NONDEL 98VQ FINAL
Contact Address 2:	Not reported
City,State,Zip:	LOS GATOS, CA 951200000
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	FEDERAL
Latitude:	37.251561
Longitude:	-121.964103

HAZNET:

Name:	FINELINE PRINTED CIRCUIT DESIGN

FINELINE PRINTED CIRCUIT DESIGN (Continued) **1001075594**

Address:	16780 LARK AVE STE A
Address 2:	Not reported
City,State,Zip:	LOS GATOS, CA 950302315
Contact:	RICHARD DAVIS
Telephone:	4083546658
Mailing Name:	Not reported
Mailing Address:	16780 LARK AVE STE A
Year:	2018
Gepaid:	CAR000006825
TSD EPA ID:	NVD980895338
CA Waste Code:	311 - Pharmaceutical waste
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.01300
Year:	2018
Gepaid:	CAR000006825
TSD EPA ID:	NVD980895338
CA Waste Code:	214 - Unspecified solvent mixture
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.00350
Year:	1997
Gepaid:	CAR000006825
TSD EPA ID:	CAD003963592
CA Waste Code:	181 - Other inorganic solid waste
Disposal Method:	R01 - Recycler
Tons:	0.4
Year:	1997
Gepaid:	CAR000006825
TSD EPA ID:	CAD003963592
CA Waste Code:	541 - Photochemicals/photoprocessing waste
Disposal Method:	R01 - Recycler
Tons:	0.8131
Year:	1996
Gepaid:	CAR000006825
TSD EPA ID:	CAD070148432
CA Waste Code:	541 - Photochemicals/photoprocessing waste
Disposal Method:	T03 - Treatment, Incineration
Tons:	0.3919
Year:	1996
Gepaid:	CAR000006825
TSD EPA ID:	CAD003963592
CA Waste Code:	541 - Photochemicals/photoprocessing waste
Disposal Method:	R01 - Recycler
Tons:	0.6672
Year:	1996
Gepaid:	CAR000006825
TSD EPA ID:	CAD070148432
CA Waste Code:	541 - Photochemicals/photoprocessing waste
Disposal Method:	R01 - Recycler

FINELINE PRINTED CIRCUIT DESIGN (Continued) **1001075594**

Tons: 0.4818

Year: 1996
Gepaid: CAR000006825
TSD EPA ID: CA0000084517
CA Waste Code: 541 - Photochemicals/photoprocessing waste
Disposal Method: -
Tons: 0.3336

Year: 1996
Gepaid: CAR000006825
TSD EPA ID: CA0000084517
CA Waste Code: 541 - Photochemicals/photoprocessing waste
Disposal Method: H01 - Transfer Station
Tons: 0.2001

Year: 1996
Gepaid: CAR000006825
TSD EPA ID: CA0000084517
CA Waste Code: -
Disposal Method: -
Tons: 0.0667

Click this hyperlink while viewing on your computer to access
2 additional CA HAZNET: record(s) in the EDR Site Report.

Detail Two:
Year: 2018
EM Manifest ID: 011346276FLE20180501_D_1
Shipment Date: 5/1/2018
Receipt Date: 6/12/2018
Manifest Number: 011346276FLE
Generator EPA ID: CAR000006825
Name: CVS #9688
Address: Not reported
Address 2: Not reported
City: Not reported
Zip: Not reported
Telephone: Not reported
Contact: Not reported
Contact Telephone: Not reported
Transporter 1 EPA ID: MNS000110924
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: NED986382133
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: NVD980895338
TSDF Name: 21ST CENTURY EMN LLC
TSDF Address 1: Not reported
TSDF Address 2: Not reported
TSDF City: Not reported
TSDF Zip: Not reported
TSDF Telephone: Not reported

Federal:
Year: 2018
EM Manifest ID: 011346276FLE20180501_D_1

FINELINE PRINTED CIRCUIT DESIGN (Continued) **1001075594**

Generator EPA ID:	CAR000006825
Shipment Date:	2018-05-01
Manifest Number:	011346276FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00200
Quantity Waste:	4.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001

Year:	2018
EM Manifest ID:	011346276FLE20180501_D_1
Generator EPA ID:	CAR000006825
Shipment Date:	2018-05-01
Manifest Number:	011346276FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00150
Quantity Waste:	3.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001

Year:	2018
EM Manifest ID:	011346276FLE20180501_D_1
Generator EPA ID:	CAR000006825
Shipment Date:	2018-05-01
Manifest Number:	011346276FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00150
Quantity Waste:	3.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	U002

Year:	2018
EM Manifest ID:	011346276FLE20180501_D_1
Generator EPA ID:	CAR000006825
Shipment Date:	2018-05-01
Manifest Number:	011346276FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.01300
Quantity Waste:	26.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001

FINELINE PRINTED CIRCUIT DESIGN (Continued) **1001075594**

State:

Year:	2018
EM Manifest ID:	011346276FLE20180501_D_1
Generator EPA ID:	CAR000006825
Shipment Date:	2018-05-01
Manifest Number:	011346276FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00200
Quantity Waste:	4.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	214

Year:	2018
EM Manifest ID:	011346276FLE20180501_D_1
Generator EPA ID:	CAR000006825
Shipment Date:	2018-05-01
Manifest Number:	011346276FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00150
Quantity Waste:	3.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	214

Year:	2018
EM Manifest ID:	011346276FLE20180501_D_1
Generator EPA ID:	CAR000006825
Shipment Date:	2018-05-01
Manifest Number:	011346276FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.01300
Quantity Waste:	26.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	311

Additional Info:

Year:	1997
Gen EPA ID:	CAR000006825
Shipment Date:	19970711
Creation Date:	12/4/1997 0:00:00
Receipt Date:	19970711
Manifest ID:	96757254
Trans EPA ID:	CAD003963592

FINELINE PRINTED CIRCUIT DESIGN (Continued) **1001075594**

Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD003963592
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	R01 - Recycler
Quantity Tons:	0.4378
Waste Quantity:	105
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19970711
Creation Date:	12/4/1997 0:00:00
Receipt Date:	19970711
Manifest ID:	96757254
Trans EPA ID:	CAD003963592
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD003963592
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19970331
Creation Date:	6/26/1997 0:00:00
Receipt Date:	19970331
Manifest ID:	96414791
Trans EPA ID:	CAD003963592
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD003963592
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011

FINELINE PRINTED CIRCUIT DESIGN (Continued) **1001075594**

Meth Code:	R01 - Recycler
Quantity Tons:	0.3753
Waste Quantity:	90
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1996
Gen EPA ID:	CAR000006825
Shipment Date:	19961223
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961223
Manifest ID:	96308128
Trans EPA ID:	CAD003963592
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD003963592
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	R01 - Recycler
Quantity Tons:	0.3753
Waste Quantity:	90
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19961121
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961121
Manifest ID:	95749054
Trans EPA ID:	CAD003963592
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD003963592
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.45
Waste Quantity:	900
Quantity Unit:	P
Additional Code 1:	Not reported

FINELINE PRINTED CIRCUIT DESIGN (Continued) **1001075594**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960924
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19960924
Manifest ID:	96288326
Trans EPA ID:	CAD003963592
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD003963592
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	R01 - Recycler
Quantity Tons:	0.2919
Waste Quantity:	70
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960802
Creation Date:	5/30/1997 0:00:00
Receipt Date:	19960809
Manifest ID:	95961426
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	D011
Meth Code:	- Not reported
Quantity Tons:	0.0667
Waste Quantity:	16
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960708
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19960710
Manifest ID:	95961424

FINELINE PRINTED CIRCUIT DESIGN (Continued) **1001075594**

Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.2001
Waste Quantity:	48
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19960517
Creation Date:	5/30/1997 0:00:00
Receipt Date:	19960521
Manifest ID:	95961560
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	- Not reported
Quantity Tons:	0.3336
Waste Quantity:	80
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19960322
Creation Date:	10/4/1996 0:00:00
Receipt Date:	19960327
Manifest ID:	95770032
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD070148432
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD070148432
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste

FINELINE PRINTED CIRCUIT DESIGN (Continued) **1001075594**

RCRA Code:	D011
Meth Code:	R01 - Recycler
Quantity Tons:	0.0315
Waste Quantity:	63
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960314
Creation Date:	10/4/1996 0:00:00
Receipt Date:	19960318
Manifest ID:	95981853
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD070148432
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD070148432
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	R01 - Recycler
Quantity Tons:	0.1918
Waste Quantity:	46
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960221
Creation Date:	10/10/1996 0:00:00
Receipt Date:	19960226
Manifest ID:	95770031
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD070148432
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	R01 - Recycler
Quantity Tons:	0.2585
Waste Quantity:	62
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

FINELINE PRINTED CIRCUIT DESIGN (Continued) **1001075594**

Additional Code 5:	Not reported
Shipment Date:	19960119
Creation Date:	10/10/1996 0:00:00
Receipt Date:	19960123
Manifest ID:	95981617
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD070148432
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD070148432
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	T03 - Treatment, Incineration
Quantity Tons:	0.3919
Waste Quantity:	94
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1995
Gen EPA ID:	CAR000006825
Shipment Date:	19951201
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19951205
Manifest ID:	95604313
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD070148432
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	R01 - Recycler
Quantity Tons:	0.6004
Waste Quantity:	144
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

45
SW
1/4-1/2
0.321 mi.
1695 ft.

METRICOM INC
980 UNIVERSITY AVE
LOS GATOS, CA 95030

CPS-SLIC
HWTS
HAZNET
CERS

S113062004
N/A

Relative:
Higher

Actual:
295 ft.

CPS-SLIC:

Name:	FORMER TEMPRESS FACILITY
Address:	980 UNIVERSITY AVENUE
City,State,Zip:	LOS GATOS, CA 95030
Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	04/29/1997
Global Id:	T10000007675
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.25034
Longitude:	-121.966
Case Type:	Cleanup Program Site
Case Worker:	UUU
Local Agency:	Not reported
RB Case Number:	43S0531
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
EPA Region:	9
Coordinate Source:	Not reported
Cuf Case:	NO
Quantity Released Gallons:	Not reported
Begin Date:	01/02/1997
Leak Reported Date:	Not reported
How Discovered:	Not reported
How Discovered Description:	Not reported
Discharge Source:	Not reported
Discharge Cause:	Not reported
Stop Method:	Not reported
Stop Description:	Not reported
No Further Action Date:	04/29/1997
CA Water Watershed Name:	Santa Clara - Guadalupe River (205.40)
Dwr Groundwater Subbasin Name:	Santa Clara Valley - Santa Clara (2-009.02)
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	11-15%
CA Enviroscreen 4 Score:	1-5% (lowest scores)
Military DOD Site:	No
Facility Project Subtype:	Not reported
RWQCB Region:	SAN FRANCISCO BAY RWQCB (REGION 2)
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

HWTS:

Name:	METRICOM INC
Address:	980 UNIVERSITY AVE
Address 2:	Not reported
City,State,Zip:	LOS GATOS, CA 95030
EPA ID:	CAL000107016
Inactive Date:	06/30/2001
Create Date:	06/07/1993
Last Act Date:	Not reported

METRICOM INC (Continued) **S113062004**

Mailing Name:	Not reported
Mailing Address:	333 W JULIAN ST
Mailing Address 2:	Not reported
Mailing City,State,Zip:	SAN JOSE, CA 951102335
Owner Name:	METRICOM INC
Owner Address:	980 UNIVERSITY AVE
Owner Address 2:	Not reported
Owner City,State,Zip:	LOS GATOS, CA 950320000
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	LOUIS MATEUS/MOVED OUT
Contact Address:	980 UNIVERSITY AVE
Contact Address 2:	Not reported
City,State,Zip:	LOS GATOS, CA 950320000
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	37.251189
Longitude:	-121.966548

HAZNET:

Name:	METRICOM INC
Address:	980 UNIVERSITY AVE
Address 2:	Not reported
City,State,Zip:	LOS GATOS, CA 950300000
Contact:	LOUIS MATEUS/MOVED OUT
Telephone:	4083998229
Mailing Name:	Not reported
Mailing Address:	333 W JULIAN ST
Year:	2000
Gepaid:	CAL000107016
TSD EPA ID:	CAD044429835
CA Waste Code:	352 - Other organic solids
Disposal Method:	D99 - Disposal, Other
Tons:	0.35
Year:	2000
Gepaid:	CAL000107016
TSD EPA ID:	CAD044429835
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	D99 - Disposal, Other
Tons:	0.2
Year:	2000
Gepaid:	CAL000107016
TSD EPA ID:	CAD044429835
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	D99 - Disposal, Other
Tons:	0.05
Year:	2000
Gepaid:	CAL000107016
TSD EPA ID:	CAD044429835

METRICOM INC (Continued) **S113062004**

CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	D99 - Disposal, Other
Tons:	0.225
Year:	2000
Gepaid:	CAL000107016
TSD EPA ID:	CAD044429835
CA Waste Code:	551 - Laboratory waste chemicals
Disposal Method:	D99 - Disposal, Other
Tons:	0.02

Additional Info:

Year:	2000
Gen EPA ID:	CAL000107016
Shipment Date:	20000807
Creation Date:	10/23/2000 0:00:00
Receipt Date:	20000822
Manifest ID:	99463771
Trans EPA ID:	TNR000009183
Trans Name:	Not reported
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD044429835
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.35
Waste Quantity:	700
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000807
Creation Date:	10/23/2000 0:00:00
Receipt Date:	20000822
Manifest ID:	99463771
Trans EPA ID:	TNR000009183
Trans Name:	Not reported
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD044429835
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.2
Waste Quantity:	400

METRICOM INC (Continued) **S113062004**

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000807
Creation Date:	10/23/2000 0:00:00
Receipt Date:	20000822
Manifest ID:	99463771
Trans EPA ID:	TNR000009183
Trans Name:	Not reported
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD044429835
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000802
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	99463761
Trans EPA ID:	TNR000009183
Trans Name:	Not reported
Trans 2 EPA ID:	ARD069748192
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD044429835
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.175
Waste Quantity:	350
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000802
Creation Date:	Not reported

METRICOM INC (Continued) **S113062004**

Receipt Date:	Not reported
Manifest ID:	99463761
Trans EPA ID:	TNR000009183
Trans Name:	Not reported
Trans 2 EPA ID:	ARD069748192
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD044429835
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.02
Waste Quantity:	40
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20000802
Creation Date:	11/13/2000 0:00:00
Receipt Date:	20000816
Manifest ID:	99463761
Trans EPA ID:	TNR000009183
Trans Name:	Not reported
Trans 2 EPA ID:	ARD069748192
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD044429835
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20000802
Creation Date:	11/13/2000 0:00:00
Receipt Date:	20000816
Manifest ID:	99463761
Trans EPA ID:	TNR000009183
Trans Name:	Not reported
Trans 2 EPA ID:	ARD069748192
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	Not reported

METRICOM INC (Continued) **S113062004**

TSDF Alt EPA ID:	CAD044429835
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.01
Waste Quantity:	20
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000802
Creation Date:	11/13/2000 0:00:00
Receipt Date:	20000816
Manifest ID:	99463761
Trans EPA ID:	TNR000009183
Trans Name:	Not reported
Trans 2 EPA ID:	ARD069748192
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD044429835
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.01
Waste Quantity:	20
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000802
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	99463761
Trans EPA ID:	TNR000009183
Trans Name:	Not reported
Trans 2 EPA ID:	ARD069748192
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD044429835
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D008
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.0575
Waste Quantity:	115
Quantity Unit:	P
Additional Code 1:	Not reported

METRICOM INC (Continued) **S113062004**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000802
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	99463761
Trans EPA ID:	TNR000009183
Trans Name:	Not reported
Trans 2 EPA ID:	ARD069748192
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD044429835
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CERS:

Name:	FORMER TEMPRESS FACILITY
Address:	980 UNIVERSITY AVENUE
City,State,Zip:	LOS GATOS, CA 95030
Site ID:	731944
CERS ID:	T10000007675
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	UUU - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

I46 **GEOFFROY PROPERTY** **HIST CORTESE** **S102430713**
East **14814B LOS GATOS BLVD** **N/A**
1/4-1/2 **LOS GATOS, CA**
0.383 mi.
2022 ft. **Site 1 of 4 in cluster I**

Relative: **Higher**
Actual: **294 ft.**

HIST CORTESE:

edr_fname:	GEOFFROY PROPERTY
edr_fadd1:	14814B LOS GATOS BLVD
City,State,Zip:	LOS GATOS, CA
Region:	CORTESE
Facility County Code:	43
Reg By:	LTNKA
Reg Id:	43-2108

I47 **MAX WOOD LIFE** **UST FINDER RELEASE** **1029019401**
East **14814 LOS GATOS BLVD** **N/A**
1/4-1/2 **LOS GATOS, CA 95032**
0.383 mi.
2023 ft. **Site 2 of 4 in cluster I**

Relative: **Higher**
Actual: **294 ft.**

UST FINDER RELEASE:

Object ID:	45718
Facility ID:	Not reported
Lust ID:	CAT0608500877
Name:	MAX WOOD LIFE
Address:	14814 LOS GATOS BLVD
City,State,Zip:	LOS GATOS, CA 95032
Address Match Type:	StreetAddress
Reported Date:	Not reported
Status:	No Further Action
Substance:	Not reported
Population within 1500ft:	641
Domestic Wells within 1500ft:	0
Land Use:	Developed, Medium Intensity
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	No
WHPA PWS Facility ID:	Not reported
WHPA Water Type:	Not reported
WHPA Facility Type:	Not reported
WHPA HUC12:	Not reported
Within 100yr Floodplain:	No
Tribe:	Not reported
EPA Region:	9
NFA Letter 1:	Not reported
NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	Geocode
X Coord:	-121.95251
Y Coord:	37.2530100000001
Latitude:	37.25301
Longitude:	-121.95251

I48 **GEOFFROY PROPERTY** **UST FINDER RELEASE** **1028969578**
East **14814 LOS GATOS BLVD** **N/A**
1/4-1/2 **LOS GATOS, CA 95032**
0.383 mi.
2023 ft. **Site 3 of 4 in cluster I**

Relative:
Higher

Actual:
294 ft.

UST FINDER RELEASE:

Object ID:	45717
Facility ID:	Not reported
Lust ID:	CAT0608501936
Name:	GEOFFROY PROPERTY
Address:	14814 LOS GATOS BLVD
City,State,Zip:	LOS GATOS, CA 95032
Address Match Type:	StreetAddress
Reported Date:	Not reported
Status:	No Further Action
Substance:	Not reported
Population within 1500ft:	641
Domestic Wells within 1500ft:	0
Land Use:	Developed, Medium Intensity
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	No
WHPA PWS Facility ID:	Not reported
WHPA Water Type:	Not reported
WHPA Facility Type:	Not reported
WHPA HUC12:	Not reported
Within 100yr Floodplain:	No
Tribe:	Not reported
EPA Region:	9
NFA Letter 1:	Not reported
NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	Geocode
X Coord:	-121.95251
Y Coord:	37.2530100000001
Latitude:	37.25301
Longitude:	-121.95251

I49 **GEOFFROY PROPERTY** **LUST** **S103472917**
East **14814 LOS GATOS BLVD** **HIST LUST** **N/A**
1/4-1/2 **LOS GATOS, CA 95032** **HIST UST**
0.383 mi. **Cortese**
2023 ft. **Site 4 of 4 in cluster I** **HIST CORTESE**
CERS

Relative:
Higher

Actual:
294 ft.

LUST:

Name:	GEOFFROY PROPERTY
Address:	14814 LOS GATOS BLVD
City,State,Zip:	LOS GATOS, CA 95032
Lead Agency:	SANTA CLARA COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608501936
Global Id:	T0608501936
Latitude:	37.2296688

GEOFFROY PROPERTY (Continued) **S103472917**

Longitude:	-121.9658753
Status:	Completed - Case Closed
Status Date:	01/16/1996
Case Worker:	DEH
RB Case Number:	Not reported
Local Agency:	SANTA CLARA COUNTY LOP
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Not reported
EPA Region:	9
Coordinate Source:	Google Geocode
Cuf Case:	NO
Quantity Released Gallons:	Not reported
Begin Date:	01/01/1991
Leak Reported Date:	01/01/1991
How Discovered:	Not reported
How Discovered Description:	Not reported
Discharge Source:	Not reported
Discharge Cause:	Not reported
Stop Method:	Not reported
Stop Description:	Not reported
No Further Action Date:	01/16/1996
CA Water Watershed Name:	Santa Clara - Guadalupe River (205.40)
Dwr Groundwater Subbasin Name:	Santa Clara Valley - Santa Clara (2-009.02)
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	6-10%
CA Enviroscreen 4 Score:	1-5% (lowest scores)
Military DOD Site:	No
Facility Project Subtype:	Not reported
RWQCB Region:	SAN FRANCISCO BAY RWQCB (REGION 2)
Site History:	Not reported

LUST:

Global Id:	T0608501936
Contact Type:	Local Agency Caseworker - Primary Caseworker
Contact Name:	DEH CASEWORKER
Organization Name:	SANTA CLARA COUNTY LOP
Address:	1555 Berger Drive, Suite 300
City:	SAN JOSE
Email:	smp@deh.sccgov.org
Phone Number:	4089183400

Global Id:	T0608501936
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0608501936
Action Type:	RESPONSE
Date:	01/16/1996
Action:	Other Report / Document

GEOFFROY PROPERTY (Continued) **S103472917**

Global Id: T0608501936
Action Type: ENFORCEMENT
Date: 01/16/1996
Action: Closure/No Further Action Letter

Global Id: T0608501936
Action Type: Other
Date: 01/01/1991
Action: Leak Reported

LUST:
Global Id: T0608501936
Status: Open - Case Begin Date
Status Date: 01/01/1991

Global Id: T0608501936
Status: Completed - Case Closed
Status Date: 01/16/1996

Name: MAX WOOD LIFE
Address: 14814 LOS GATOS BLVD
City,State,Zip: LOS GATOS, CA 95032
Lead Agency: SANTA CLARA COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608500877
Global Id: T0608500877
Latitude: 37.2526890848107
Longitude: -121.952297687531
Status: Completed - Case Closed
Status Date: 01/06/1992
Case Worker: DEH
RB Case Number: Not reported
Local Agency: SANTA CLARA COUNTY LOP
File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
EPA Region: 9
Coordinate Source: Google Map Move
Cuf Case: NO
Quantity Released Gallons: Not reported
Begin Date: 01/23/1990
Leak Reported Date: 01/23/1991
How Discovered: Not reported
How Discovered Description: Not reported
Discharge Source: Not reported
Discharge Cause: Not reported
Stop Method: Not reported
Stop Description: Not reported
No Further Action Date: 01/06/1992
CA Water Watershed Name: Santa Clara - Guadalupe River (205.40)
Dwr Groundwater Subbasin Name: Santa Clara Valley - Santa Clara (2-009.02)
Disadvantaged Community: Not reported
CA Enviroscreen 3 Score: 6-10%
CA Enviroscreen 4 Score: 10-15%
Military DOD Site: No

GEOFFROY PROPERTY (Continued) **S103472917**

Facility Project Subtype: Not reported
RWQCB Region: SAN FRANCISCO BAY RWQCB (REGION 2)
Site History: Not reported

LUST:
Global Id: T0608500877
Contact Type: Local Agency Caseworker - Primary Caseworker
Contact Name: DEH CASEWORKER
Organization Name: SANTA CLARA COUNTY LOP
Address: 1555 Berger Drive, Suite 300
City: SAN JOSE
Email: smp@deh.sccgov.org
Phone Number: 4089183400

Global Id: T0608500877
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0608500877
Action Type: ENFORCEMENT
Date: 01/06/1992
Action: Closure/No Further Action Letter

Global Id: T0608500877
Action Type: ENFORCEMENT
Date: 10/04/1991
Action: Notice of Responsibility - #39322

Global Id: T0608500877
Action Type: RESPONSE
Date: 10/10/1991
Action: Other Report / Document

Global Id: T0608500877
Action Type: Other
Date: 01/23/1991
Action: Leak Reported

Global Id: T0608500877
Action Type: REMEDIATION
Date: 01/23/1991
Action: Excavation

LUST:
Global Id: T0608500877
Status: Open - Case Begin Date
Status Date: 01/23/1990

Global Id: T0608500877
Status: Open - Site Assessment
Status Date: 01/23/1990

GEOFFROY PROPERTY (Continued) **S103472917**

Global Id: T0608500877
Status: Completed - Case Closed
Status Date: 01/06/1992

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 08S1W10H01f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 1/23/1990
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 08S1W10H02f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:
Name: MAX WOOD LIFE
Address: 14814 LOS GATOS BLVD
City,State,Zip: LOS GATOS, CA
Region: SANTA CLARA
SCVWD ID: 08S1W10H01F
Date Closed: 01/06/1992
EDR Link ID: 08S1W10H01F

Name: GEOFFROY PROPERTY
Address: 14814 LOS GATOS BLVD
City,State,Zip: LOS GATOS, CA
Region: SANTA CLARA
SCVWD ID: 08S1W10H02F
Date Closed: 01/16/1996
EDR Link ID: 08S1W10H02F

GEOFFROY PROPERTY (Continued) **S103472917**

HIST LUST SC:
Name: Max Wood Life
Address: 14814 Los Gatos Blvd
City: Los Gatos
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 08S1W10H01
Oversite Agency: SCVWD
Date Listed: 1990-05-29 00:00:00
Closed Date: 1992-01-06 00:00:00

Name: Geoffroy Property
Address: 14814 Los Gatos Blvd
City: Los Gatos
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 08S1W10H02
Oversite Agency: SCVWD
Date Listed: 1992-06-04 00:00:00
Closed Date: 1996-01-16 00:00:00

HIST UST:
Name: G AND P RENTALS
Address: 14814 LOS GATOS BLVD
City,State,Zip: LOS GATOS, CA 95030
File Number: 0002cf73
URL: https://documents.geotracker.waterboards.ca.gov/ustpdfs/pdf/0002cf73.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

CORTESE:
Name: MAX WOOD LIFE
Address: 14814 LOS GATOS BLVD
City,State,Zip: LOS GATOS, CA 95032
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0608500877

GEOFFROY PROPERTY (Continued) **S103472917**

Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

Name:	GEOFFROY PROPERTY
Address:	14814 LOS GATOS BLVD
City,State,Zip:	LOS GATOS, CA 95032
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0608501936
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

edr_fname:	MAX WOOD LIFE
edr_fadd1:	14814 LOS GATOS
City,State,Zip:	LOS GATOS, CA 95030
Region:	CORTESE
Facility County Code:	43
Reg By:	LTNKA
Reg Id:	43-0866

CERS:

Name:	MAX WOOD LIFE
Address:	14814 LOS GATOS BLVD

GEOFFROY PROPERTY (Continued) **S103472917**

City,State,Zip: LOS GATOS, CA 95032
Site ID: 744125
CERS ID: T0608500877
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: DEH CASEWORKER - SANTA CLARA COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: SAN JOSE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 4089183400,

Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Name: GEOFFROY PROPERTY
Address: 14814 LOS GATOS BLVD
City,State,Zip: LOS GATOS, CA 95032
Site ID: 733615
CERS ID: T0608501936
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: DEH CASEWORKER - SANTA CLARA COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: SAN JOSE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 4089183400,

Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

50
ENE
1/4-1/2
0.387 mi.
2041 ft.

CARMEN'S NURSERY
16201 MOZART AVENUE
LOS GATOS, CA 95032

ENVIROSTOR **S118757373**
N/A

Relative:
Higher

Actual:
278 ft.

ENVIROSTOR:

Name:	CARMEN'S NURSERY
Address:	16201 MOZART AVENUE
City,State,Zip:	LOS GATOS, CA 95032
Facility ID:	70000096
Status:	No Action Required
Status Date:	04/18/2006
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	1
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	* Mark Piros
Division Branch:	Cleanup Berkeley
Assembly:	23
Senate:	13
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	37.25650
Longitude:	-121.9531
APN:	424-06-076
Past Use:	AGRICULTURAL - ORCHARD, NURSERY
Potential COC:	DDD DDE DDT
Confirmed COC:	30006-NO 30007-NO 30008-NO
Potential Description:	SOIL
Alias Name:	Classics at Kilmer Park
Alias Type:	Alternate Name
Alias Name:	424-06-076
Alias Type:	APN
Alias Name:	CAC002187689
Alias Type:	EPA Identification Number
Alias Name:	70000096
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	04/18/2006
Comments:	The site screening report was approved by EPA. No further action required under CERCLA.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported

CARMEN'S NURSERY (Continued) **S118757373**

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

J51 **LARK AVENUE CAR WASH** **UST FINDER RELEASE** **1029014291**
SSE **16500 LARK AVENUE** **N/A**
1/4-1/2 **LOS GATOS, CA 95032**
0.392 mi.
2071 ft. **Site 1 of 2 in cluster J**

Relative:
Higher

Actual:
311 ft.

UST FINDER RELEASE:

Object ID:	45627
Facility ID:	Not reported
Lust ID:	CAT0608500398
Name:	LARK AVENUE CAR WASH
Address:	16500 LARK AVENUE
City,State,Zip:	LOS GATOS, CA 95032
Address Match Type:	PointAddress
Reported Date:	Not reported
Status:	Open
Substance:	Not reported
Population within 1500ft:	996
Domestic Wells within 1500ft:	0
Land Use:	Developed, Medium Intensity
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	Yes
WHPA PWS Facility ID:	CA4310011_54873
WHPA Water Type:	GW - Ground water
WHPA Facility Type:	WL - Well
WHPA HUC12:	180500030303
Within 100yr Floodplain:	No
Tribe:	Not reported
EPA Region:	9
NFA Letter 1:	Not reported
NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	Geocode
X Coord:	-121.95715
Y Coord:	37.2483500000001
Latitude:	37.24835
Longitude:	-121.957149999999

J52 **LARK AVENUE CAR WASH** **LUST** **S100179319**
SSE **16500 LARK AVE** **HIST LUST** **N/A**
1/4-1/2 **LOS GATOS, CA 95032** **SWEEPS UST**
0.392 mi. **Cortese**
2071 ft. **Site 2 of 2 in cluster J** **EMI**
HIST CORTESE
Relative: Higher **HWTS**
Notify 65
Actual: 311 ft. **CERS**

LUST:

Name:	LARK AVENUE CAR WASH
Address:	16500 LARK AVENUE
City,State,Zip:	LOS GATOS, CA 95032
Lead Agency:	SANTA CLARA COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608500398
Global Id:	T0608500398
Latitude:	37.2482365647428
Longitude:	-121.957400338077
Status:	Open - Verification Monitoring
Status Date:	12/14/2017
Case Worker:	TLF
RB Case Number:	12-040
Local Agency:	SANTA CLARA COUNTY LOP
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	08S1W10L01f
Potential Media Affect:	Aquifer used for drinking water supply, Soil
Potential Contaminants of Concern:	Benzene, Toluene, Xylene, MTBE / TBA / Other Fuel Oxygenates, Gasoline
EPA Region:	9
Coordinate Source:	Google Map Move
Cuf Case:	YES
Quantity Released Gallons:	Not reported
Begin Date:	10/22/1989
Leak Reported Date:	10/22/1989
How Discovered:	Subsurface Monitoring
How Discovered Description:	Not reported
Discharge Source:	Other
Discharge Cause:	Unknown
Stop Method:	Not reported
Stop Description:	Stop method not indicated in 10/22/1989 report
No Further Action Date:	Not reported
CA Water Watershed Name:	Santa Clara - Guadalupe River (205.40)
Dwr Groundwater Subbasin Name:	Santa Clara Valley - Santa Clara (2-009.02)
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	1-5% (lowest scores)
CA Enviroscreen 4 Score:	10-15%
Military DOD Site:	No
Facility Project Subtype:	Not reported
RWQCB Region:	SAN FRANCISCO BAY RWQCB (REGION 2)
Site History:	In a letter dated July 19, 2012, DEH required the property owner to submit a revised corrective action plan and work plan for replacing well MW-2R: The work plan for replacing well MW-2R was submitted on September 18, 2012, and includes the following general scope of services: Obtain monitoring well destruction and construction permits from the Santa Clara Valley Water District (SCVWD); Over-drill and remove the existing MW-2R four-inch-diameter PVC well casing and screen; Reconstruct (deepen) MW-2R using similar well construction materials; and Develop MW-2R and resurvey location and top of casing

LARK AVENUE CAR WASH (Continued) **S100179319**

elevation. The revised corrective action plan is due on November 23, 2012.

LUST:
Global Id: T0608500398
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Global Id: T0608500398
Contact Type: Local Agency Caseworker - Primary Caseworker
Contact Name: TRAVIS L. FLORA
Organization Name: SANTA CLARA COUNTY LOP
Address: 1555 Berger Dr.
City: SAN JOSE
Email: travis.flora@deh.sccgov.org
Phone Number: 4089183486

LUST:
Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 06/03/2014
Action: Staff Letter

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 07/27/2015
Action: Staff Letter

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 06/02/2016
Action: Staff Letter

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 06/13/2019
Action: Email Correspondence

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 07/16/2020
Action: Email Correspondence

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 05/09/2022
Action: Staff Letter

Global Id: T0608500398
Action Type: Other
Date: 10/12/1988
Action: Leak Discovery

LARK AVENUE CAR WASH (Continued) **S100179319**

Global Id: T0608500398
Action Type: RESPONSE
Date: 01/24/2003
Action: Soil and Water Investigation Workplan

Global Id: T0608500398
Action Type: RESPONSE
Date: 06/05/2001
Action: Soil and Water Investigation Workplan

Global Id: T0608500398
Action Type: RESPONSE
Date: 04/30/2018
Action: Monitoring Report - Semi-Annually

Global Id: T0608500398
Action Type: RESPONSE
Date: 09/30/2005
Action: Other Report / Document

Global Id: T0608500398
Action Type: RESPONSE
Date: 10/29/1993
Action: Monitoring Report - Quarterly

Global Id: T0608500398
Action Type: RESPONSE
Date: 05/12/1992
Action: Other Report / Document

Global Id: T0608500398
Action Type: RESPONSE
Date: 04/05/2002
Action: Well Installation Report

Global Id: T0608500398
Action Type: RESPONSE
Date: 07/30/2021
Action: Monitoring Report - Semi-Annually

Global Id: T0608500398
Action Type: RESPONSE
Date: 01/01/1990
Action: Correspondence

Global Id: T0608500398
Action Type: RESPONSE
Date: 10/30/2018
Action: Monitoring Report - Other

Global Id: T0608500398
Action Type: RESPONSE
Date: 06/03/2005
Action: Other Report / Document

Global Id: T0608500398
Action Type: RESPONSE

LARK AVENUE CAR WASH (Continued) **S100179319**

Date: 04/30/2017
Action: Monitoring Report - Semi-Annually

Global Id: T0608500398
Action Type: RESPONSE
Date: 04/06/2018
Action: Well Destruction Report

Global Id: T0608500398
Action Type: RESPONSE
Date: 03/14/1997
Action: CAP/RAP - Other Report

Global Id: T0608500398
Action Type: RESPONSE
Date: 01/30/2022
Action: Monitoring Report - Semi-Annually

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 03/28/2006
Action: Staff Letter - #60325

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 03/09/1992
Action: Staff Letter - #19623

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 03/24/1992
Action: Notice of Responsibility - #39324

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 02/08/1993
Action: Staff Letter - #19627

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 10/26/1993
Action: Staff Letter - #19631

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 01/31/1994
Action: Staff Letter - #19635

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 04/20/1994
Action: Staff Letter - #19637

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 07/29/1994
Action: Staff Letter - #19463

LARK AVENUE CAR WASH (Continued) **S100179319**

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 08/03/1994
Action: Staff Letter - #19465

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 02/01/1995
Action: Staff Letter - #19469

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 04/28/1995
Action: Staff Letter - #19471

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 07/13/1995
Action: Staff Letter - #19475

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 02/25/1997
Action: Staff Letter - #19477

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 02/21/2000
Action: Staff Letter - #19481

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 05/15/2001
Action: Staff Letter - #19489

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 06/05/2001
Action: Staff Letter - #19487

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 12/19/2002
Action: Staff Letter - #40704

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 08/08/2003
Action: Staff Letter - #41915

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 05/13/2005
Action: Staff Letter

Global Id: T0608500398
Action Type: ENFORCEMENT

LARK AVENUE CAR WASH (Continued) **S100179319**

Date: 08/13/2009
Action: Staff Letter - #9002318

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 12/24/2013
Action: Staff Letter

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 11/21/2013
Action: Staff Letter

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 02/12/2014
Action: Notice to Comply

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 02/21/2014
Action: Staff Letter

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 11/01/2013
Action: Email Correspondence

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 11/21/2014
Action: Staff Letter

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 01/31/2017
Action: Staff Letter

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 01/03/2018
Action: Staff Letter

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 06/01/2023
Action: Staff Letter

Global Id: T0608500398
Action Type: RESPONSE
Date: 10/31/2009
Action: Monitoring Report - Quarterly

Global Id: T0608500398
Action Type: RESPONSE
Date: 01/31/2010
Action: Monitoring Report - Quarterly

LARK AVENUE CAR WASH (Continued) **S100179319**

Global Id: T0608500398
Action Type: RESPONSE
Date: 08/31/2015
Action: Other Report / Document

Global Id: T0608500398
Action Type: RESPONSE
Date: 07/23/2015
Action: Correspondence

Global Id: T0608500398
Action Type: RESPONSE
Date: 04/30/2016
Action: Monitoring Report - Semi-Annually

Global Id: T0608500398
Action Type: RESPONSE
Date: 04/25/2006
Action: Interim Remedial Action Report

Global Id: T0608500398
Action Type: RESPONSE
Date: 01/26/2004
Action: Remedial Progress Report

Global Id: T0608500398
Action Type: RESPONSE
Date: 03/09/1992
Action: Other Workplan

Global Id: T0608500398
Action Type: RESPONSE
Date: 02/20/2013
Action: Conceptual Site Model

Global Id: T0608500398
Action Type: RESPONSE
Date: 06/03/2005
Action: Other Report / Document

Global Id: T0608500398
Action Type: RESPONSE
Date: 06/15/1993
Action: Soil and Water Investigation Report

Global Id: T0608500398
Action Type: RESPONSE
Date: 10/22/1989
Action: Unauthorized Release Form

Global Id: T0608500398
Action Type: RESPONSE
Date: 04/30/2019
Action: Monitoring Report - Semi-Annually

Global Id: T0608500398
Action Type: RESPONSE

LARK AVENUE CAR WASH (Continued) **S100179319**

Date: 03/24/2006
Action: Other Report / Document

Global Id: T0608500398
Action Type: RESPONSE
Date: 06/03/2005
Action: Other Report / Document

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 01/19/2018
Action: Email Correspondence

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 03/06/2018
Action: Staff Letter

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 06/03/2005
Action: Other Report

Global Id: T0608500398
Action Type: RESPONSE
Date: 04/30/2010
Action: Monitoring Report - Quarterly

Global Id: T0608500398
Action Type: RESPONSE
Date: 10/31/2004
Action: Monitoring Report - Quarterly

Global Id: T0608500398
Action Type: RESPONSE
Date: 01/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0608500398
Action Type: RESPONSE
Date: 04/30/2002
Action: Monitoring Report - Quarterly

Global Id: T0608500398
Action Type: RESPONSE
Date: 08/13/2001
Action: Soil and Water Investigation Report

Global Id: T0608500398
Action Type: RESPONSE
Date: 02/22/2002
Action: Soil and Water Investigation Report

Global Id: T0608500398
Action Type: RESPONSE
Date: 02/02/1995
Action: Monitoring Report - Quarterly

LARK AVENUE CAR WASH (Continued) **S100179319**

Global Id: T0608500398
Action Type: RESPONSE
Date: 08/08/1994
Action: Soil and Water Investigation Workplan

Global Id: T0608500398
Action Type: RESPONSE
Date: 11/01/1994
Action: Soil and Water Investigation Report

Global Id: T0608500398
Action Type: RESPONSE
Date: 02/01/2013
Action: Well Installation Report

Global Id: T0608500398
Action Type: RESPONSE
Date: 05/10/2013
Action: Other Workplan

Global Id: T0608500398
Action Type: RESPONSE
Date: 10/30/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0608500398
Action Type: RESPONSE
Date: 10/30/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0608500398
Action Type: RESPONSE
Date: 04/30/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0608500398
Action Type: RESPONSE
Date: 04/30/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0608500398
Action Type: RESPONSE
Date: 07/30/2015
Action: Remedial Progress Report

Global Id: T0608500398
Action Type: RESPONSE
Date: 04/30/2015
Action: Remedial Progress Report

Global Id: T0608500398
Action Type: RESPONSE
Date: 10/30/2015
Action: Remedial Progress Report

Global Id: T0608500398
Action Type: RESPONSE

LARK AVENUE CAR WASH (Continued) **S100179319**

Date: 10/30/2015
Action: Monitoring Report - Semi-Annually

Global Id: T0608500398
Action Type: RESPONSE
Date: 05/22/2015
Action: Monitoring Report - Semi-Annually

Global Id: T0608500398
Action Type: RESPONSE
Date: 11/10/2014
Action: Correspondence

Global Id: T0608500398
Action Type: RESPONSE
Date: 01/16/2015
Action: Correspondence

Global Id: T0608500398
Action Type: RESPONSE
Date: 09/30/2016
Action: CAP/RAP - Other Report

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 11/09/2012
Action: Staff Letter

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 06/20/2013
Action: Staff Letter

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 10/24/2014
Action: Staff Letter

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 08/28/2013
Action: Email Correspondence

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 12/08/2017
Action: Staff Letter

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 10/04/2017
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 11/09/2017
Action: Staff Letter

LARK AVENUE CAR WASH (Continued) **S100179319**

Global Id: T0608500398
Action Type: RESPONSE
Date: 10/10/2003
Action: Soil and Water Investigation Report

Global Id: T0608500398
Action Type: RESPONSE
Date: 07/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0608500398
Action Type: RESPONSE
Date: 06/18/1993
Action: Soil and Water Investigation Report

Global Id: T0608500398
Action Type: RESPONSE
Date: 03/17/2000
Action: Monitoring Report - Quarterly

Global Id: T0608500398
Action Type: RESPONSE
Date: 04/25/1994
Action: Soil and Water Investigation Report

Global Id: T0608500398
Action Type: RESPONSE
Date: 05/03/1994
Action: Monitoring Report - Quarterly

Global Id: T0608500398
Action Type: RESPONSE
Date: 08/01/1994
Action: Monitoring Report - Quarterly

Global Id: T0608500398
Action Type: RESPONSE
Date: 03/18/1992
Action: Soil and Water Investigation Workplan

Global Id: T0608500398
Action Type: RESPONSE
Date: 02/09/1993
Action: Soil and Water Investigation Workplan

Global Id: T0608500398
Action Type: RESPONSE
Date: 11/01/1993
Action: Monitoring Report - Quarterly

Global Id: T0608500398
Action Type: RESPONSE
Date: 02/03/1994
Action: Monitoring Report - Quarterly

Global Id: T0608500398
Action Type: RESPONSE

LARK AVENUE CAR WASH (Continued) **S100179319**

Date: 04/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0608500398
Action Type: RESPONSE
Date: 01/30/2004
Action: Other Report / Document

Global Id: T0608500398
Action Type: RESPONSE
Date: 10/31/2003
Action: Monitoring Report - Quarterly

Global Id: T0608500398
Action Type: RESPONSE
Date: 10/27/1993
Action: Soil and Water Investigation Workplan

Global Id: T0608500398
Action Type: RESPONSE
Date: 04/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0608500398
Action Type: RESPONSE
Date: 03/17/1997
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0608500398
Action Type: RESPONSE
Date: 01/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0608500398
Action Type: RESPONSE
Date: 04/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0608500398
Action Type: RESPONSE
Date: 05/01/1995
Action: Monitoring Report - Quarterly

Global Id: T0608500398
Action Type: RESPONSE
Date: 05/08/1995
Action: Other Report / Document

Global Id: T0608500398
Action Type: RESPONSE
Date: 10/30/2002
Action: Monitoring Report - Quarterly

Global Id: T0608500398
Action Type: RESPONSE
Date: 07/30/2000
Action: Monitoring Report - Quarterly

LARK AVENUE CAR WASH (Continued) **S100179319**

Global Id: T0608500398
Action Type: RESPONSE
Date: 07/17/1995
Action: Soil and Water Investigation Workplan

Global Id: T0608500398
Action Type: RESPONSE
Date: 11/15/1999
Action: Monitoring Report - Quarterly

Global Id: T0608500398
Action Type: RESPONSE
Date: 10/30/2001
Action: Monitoring Report - Quarterly

Global Id: T0608500398
Action Type: RESPONSE
Date: 05/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0608500398
Action Type: RESPONSE
Date: 05/30/2005
Action: Remedial Progress Report

Global Id: T0608500398
Action Type: RESPONSE
Date: 06/13/2005
Action: Other Report / Document

Global Id: T0608500398
Action Type: RESPONSE
Date: 08/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 04/29/1994
Action: Staff Letter - #19461

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 10/31/1994
Action: Staff Letter - #19467

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 05/04/1995
Action: Staff Letter - #19473

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 11/10/1999
Action: Staff Letter - #19479

Global Id: T0608500398
Action Type: ENFORCEMENT

LARK AVENUE CAR WASH (Continued) **S100179319**

Date: 02/05/2001
Action: Staff Letter - #19485

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 12/18/2001
Action: Staff Letter - #19491

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 02/29/2004
Action: Staff Letter - #43810

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 06/15/1993
Action: Staff Letter - #19629

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 10/29/1993
Action: Staff Letter - #19633

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 03/04/2010
Action: Staff Letter

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 03/15/2013
Action: Staff Letter

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 09/24/2012
Action: Notice to Comply

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 07/19/2012
Action: Staff Letter

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 09/04/2015
Action: Staff Letter

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 04/14/2015
Action: Staff Letter

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 09/17/2014
Action: Notice to Comply

LARK AVENUE CAR WASH (Continued) **S100179319**

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 04/18/2014
Action: Staff Letter

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 06/16/2014
Action: Staff Letter

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 03/04/2015
Action: Staff Letter

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 06/24/2015
Action: Notification - Public Notice of ROD/RAP/CAP

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 08/13/2019
Action: Staff Letter

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 10/07/2019
Action: Email Correspondence

Global Id: T0608500398
Action Type: ENFORCEMENT
Date: 12/04/2020
Action: Staff Letter

Global Id: T0608500398
Action Type: Other
Date: 10/22/1989
Action: Leak Reported

Global Id: T0608500398
Action Type: RESPONSE
Date: 04/30/2001
Action: Monitoring Report - Quarterly

Global Id: T0608500398
Action Type: RESPONSE
Date: 07/31/2003
Action: Monitoring Report - Quarterly

Global Id: T0608500398
Action Type: RESPONSE
Date: 07/30/2002
Action: Monitoring Report - Quarterly

Global Id: T0608500398
Action Type: RESPONSE

LARK AVENUE CAR WASH (Continued) **S100179319**

Date: 10/06/2022
Action: Monitoring Report - Semi-Annually

Global Id: T0608500398
Action Type: RESPONSE
Date: 07/31/2010
Action: Monitoring Report - Quarterly - Regulator Responded

Global Id: T0608500398
Action Type: RESPONSE
Date: 09/14/2012
Action: Well Installation Workplan - Regulator Responded

Global Id: T0608500398
Action Type: RESPONSE
Date: 11/15/2013
Action: Other Workplan - Regulator Responded

Global Id: T0608500398
Action Type: RESPONSE
Date: 09/12/2014
Action: Corrective Action Plan / Remedial Action Plan - Regulator Responded

Global Id: T0608500398
Action Type: RESPONSE
Date: 01/31/2014
Action: Well Installation Workplan - Regulator Responded

Global Id: T0608500398
Action Type: RESPONSE
Date: 01/17/2014
Action: Interim Remedial Action Report - Regulator Responded

Global Id: T0608500398
Action Type: RESPONSE
Date: 05/30/2014
Action: Well Installation Report - Regulator Responded

Global Id: T0608500398
Action Type: RESPONSE
Date: 06/19/2015
Action: Corrective Action Plan / Remedial Action Plan - Addendum - Regulator Responded

Global Id: T0608500398
Action Type: RESPONSE
Date: 03/02/2018
Action: CAP/RAP - Other Report - Regulator Responded

Global Id: T0608500398
Action Type: RESPONSE
Date: 08/01/2019
Action: Monitoring Report - Semi-Annually - Regulator Responded

Global Id: T0608500398
Action Type: RESPONSE
Date: 01/03/2017
Action: Request for Closure - Regulator Responded

LARK AVENUE CAR WASH (Continued) **S100179319**

Global Id: T0608500398
Action Type: RESPONSE
Date: 07/30/2020
Action: Monitoring Report - Semi-Annually - Regulator Responded

Global Id: T0608500398
Action Type: RESPONSE
Date: 01/30/2021
Action: Monitoring Report - Semi-Annually - Regulator Responded

Global Id: T0608500398
Action Type: RESPONSE
Date: 12/28/2017
Action: Monitoring Report - Semi-Annually - Regulator Responded

Global Id: T0608500398
Action Type: RESPONSE
Date: 07/30/2022
Action: Monitoring Report - Semi-Annually - Regulator Responded

Global Id: T0608500398
Action Type: RESPONSE
Date: 04/30/2023
Action: Monitoring Report - Other - Regulator Responded

Global Id: T0608500398
Action Type: REMEDIATION
Date: 12/15/1998
Action: Pump & Treat (P&T) Groundwater

Global Id: T0608500398
Action Type: REMEDIATION
Date: 12/15/1998
Action: Soil Vapor Extraction (SVE)

LUST:
Global Id: T0608500398
Status: Open - Case Begin Date
Status Date: 10/22/1989

Global Id: T0608500398
Status: Open - Site Assessment
Status Date: 03/31/1993

Global Id: T0608500398
Status: Open - Site Assessment
Status Date: 01/01/1994

Global Id: T0608500398
Status: Open - Remediation
Status Date: 12/15/1998

Global Id: T0608500398
Status: Open - Remediation
Status Date: 05/27/2005

Global Id: T0608500398

LARK AVENUE CAR WASH (Continued) **S100179319**

Status: Open - Verification Monitoring
Status Date: 12/14/2017

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Remedial action (cleanup) Underway
Case Number: 08S1W10L01f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 3/31/1993
Pollution Characterization Began: 1/1/1994
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: 12/15/1998
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:
Name: LARK AVENUE CAR WASH
Address: 16500 LARK AVE
City,State,Zip: LOS GATOS, CA
Region: SANTA CLARA
SCVWD ID: 08S1W10L01F
Date Closed: Not reported
EDR Link ID: 08S1W10L01F

HIST LUST SC:
Name: Lark Avenue Car Wash
Address: 16500 Lark Ave
City: Los Gatos
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 08S1W10L01
Oversite Agency: SCCDEH
Date Listed: 1992-06-04 00:00:00
Closed Date: Not reported

SWEEPS UST:
Name: CLASSIC CAR WASH
Address: 16500 LARK AVE
City: LOS GATOS
Status: Not reported
Comp Number: 51083
Number: Not reported
Board Of Equalization: 44-025904
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 43-003-051083-000001
Tank Status: Not reported

LARK AVENUE CAR WASH (Continued) **S100179319**

Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	6

Name:	CLASSIC CAR WASH
Address:	16500 LARK AVE
City:	LOS GATOS
Status:	Not reported
Comp Number:	51083
Number:	Not reported
Board Of Equalization:	44-025904
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	43-003-051083-000002
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Name:	CLASSIC CAR WASH
Address:	16500 LARK AVE
City:	LOS GATOS
Status:	Not reported
Comp Number:	51083
Number:	Not reported
Board Of Equalization:	44-025904
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	43-003-051083-000003
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	PRM UNLEADED
Number Of Tanks:	Not reported

Name:	CLASSIC CAR WASH
Address:	16500 LARK AVE
City:	LOS GATOS
Status:	Not reported
Comp Number:	51083
Number:	Not reported
Board Of Equalization:	44-025904
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported

LARK AVENUE CAR WASH (Continued) **S100179319**

Owner Tank Id: Not reported
SWRCB Tank Id: 43-003-051083-000004
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: CLASSIC CAR WASH
Address: 16500 LARK AVE
City: LOS GATOS
Status: Not reported
Comp Number: 51083
Number: Not reported
Board Of Equalization: 44-025904
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 43-003-051083-000008
Tank Status: Not reported
Capacity: 1
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Name: CLASSIC CAR WASH
Address: 16500 LARK AVE
City: LOS GATOS
Status: Not reported
Comp Number: 51083
Number: Not reported
Board Of Equalization: 44-025904
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 43-003-051083-000009
Tank Status: Not reported
Capacity: 1
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Name: CLASSIC CAR WASH
Address: 16500 LARK AVE
City: LOS GATOS
Status: Active
Comp Number: 51083
Number: 1
Board Of Equalization: 44-025904

LARK AVENUE CAR WASH (Continued) **S100179319**

Referral Date: 06-26-92
Action Date: 09-29-92
Created Date: 02-29-88
Owner Tank Id: 5A
SWRCB Tank Id: 43-003-051083-000005
Tank Status: A
Capacity: 7500
Active Date: 01-13-93
Tank Use: M.V. FUEL
STG: P
Content: PRM UNLEADED
Number Of Tanks: 3

Name: CLASSIC CAR WASH
Address: 16500 LARK AVE
City: LOS GATOS
Status: Active
Comp Number: 51083
Number: 1
Board Of Equalization: 44-025904
Referral Date: 06-26-92
Action Date: 09-29-92
Created Date: 02-29-88
Owner Tank Id: 6
SWRCB Tank Id: 43-003-051083-000006
Tank Status: A
Capacity: 10000
Active Date: 01-13-93
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: CLASSIC CAR WASH
Address: 16500 LARK AVE
City: LOS GATOS
Status: Active
Comp Number: 51083
Number: 1
Board Of Equalization: 44-025904
Referral Date: 06-26-92
Action Date: 09-29-92
Created Date: 02-29-88
Owner Tank Id: 5B
SWRCB Tank Id: 43-003-051083-000007
Tank Status: A
Capacity: 7500
Active Date: 01-13-93
Tank Use: M.V. FUEL
STG: P
Content: PRM UNLEADED
Number Of Tanks: Not reported

CORTESE:
Name: LARK AVENUE CAR WASH
Address: 16500 LARK AVENUE
City,State,Zip: LOS GATOS, CA 95032

LARK AVENUE CAR WASH (Continued) **S100179319**

Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0608500398
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	OPEN - VERIFICATION MONITORING
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

EMI:

Name:	LARK AVENUE CAR WASH
Address:	16500 LARK AVE
City,State,Zip:	LOS GATOS, CA 95032
Year:	2017
County Code:	43
Air Basin:	SF
Facility ID:	103539
Air District Name:	BA
SIC Code:	5411
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.136132138
Reactive Organic Gases Tons/Yr:	0.136132138
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

Name:	LARK AVENUE CAR WASH
Address:	16500 LARK AVE
City,State,Zip:	LOS GATOS, CA 95032
Year:	2018
County Code:	43
Air Basin:	SF
Facility ID:	103539
Air District Name:	BA
SIC Code:	7542
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.136132119
Reactive Organic Gases Tons/Yr:	0.136132119

LARK AVENUE CAR WASH (Continued) **S100179319**

Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

Name:	LARK AVENUE CAR WASH
Address:	16500 LARK AVE
City,State,Zip:	LOS GATOS, CA 95032
Year:	2019
County Code:	43
Air Basin:	SF
Facility ID:	103539
Air District Name:	BA
SIC Code:	7542
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.136132119
Reactive Organic Gases Tons/Yr:	0.136132119
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

Name:	LARK AVENUE CAR WASH
Address:	16500 LARK AVE
City,State,Zip:	LOS GATOS, CA 95032
Year:	2020
County Code:	43
Air Basin:	SF
Facility ID:	103539
Air District Name:	BA
SIC Code:	7542
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.136132119
Reactive Organic Gases Tons/Yr:	0.136132119
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

Name:	LARK AVENUE CAR WASH
Address:	16500 LARK AVE
City,State,Zip:	LOS GATOS, CA 95032
Year:	2021
County Code:	43
Air Basin:	SF
Facility ID:	103539
Air District Name:	BA
SIC Code:	5411
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported

LARK AVENUE CAR WASH (Continued) **S100179319**

Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.1392714
Reactive Organic Gases Tons/Yr: 0.1392714
Carbon Monoxide Emissions Tons/Yr: Not reported
NOX - Oxides of Nitrogen Tons/Yr: Not reported
SOX - Oxides of Sulphur Tons/Yr: Not reported
Particulate Matter Tons/Yr: Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr: Not reported

HIST CORTESE:
edr_fname: LARK AVENUE CAR WASH
edr_fadd1: 16500 LARK
City,State,Zip: LOS GATOS, CA
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-0342

HWTS:
Name: CLASSIC CAR WASH
Address: 16500 LARK AVE
Address 2: Not reported
City,State,Zip: LOS GATOS, CA 95032
EPA ID: CAC002560354
Inactive Date: 08/19/2003
Create Date: 12/31/2002
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 871 E HAMILTON AVE STE C
Mailing Address 2: Not reported
Mailing City,State,Zip: CAMBELL, CA 95008
Owner Name: CLASSIC CAR WASH INC
Owner Address: 871 E HAMILTON AVE STE C
Owner Address 2: Not reported
Owner City,State,Zip: CAMBELL, CA 95008
Owner Phone: Not reported
Owner Fax: Not reported
Contact Name: MARTY JENSEN
Contact Address: 871 E HAMILTON AVE STE C
Contact Address 2: Not reported
City,State,Zip: CAMBELL, CA 95008
Contact Phone: Not reported
Contact Fax: Not reported
Facility Status: Inactive
Facility Type: TEMPORARY
Category: STATE
Latitude: 37.248616
Longitude: -121.957715

NOTIFY 65:
Name: CLASSIC CAR WASH
Address: 16500 LARK
City,State,Zip: LOS GATOS, CA 93063
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported

LARK AVENUE CAR WASH (Continued) **S100179319**

Facility Type: Not reported
Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported
Global ID: Not reported
Status: Not reported

CERS:
Name: LARK AVENUE CAR WASH
Address: 16500 LARK AVENUE
City,State,Zip: LOS GATOS, CA 95032
Site ID: 740819
CERS ID: T0608500398
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: TRAVIS L. FLORA - SANTA CLARA COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1555 Berger Dr.
Affiliation City: SAN JOSE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 4089183486,

K53 **MAXXIM MEDICAL** **ENVIROSTOR** **S106235156**
North **14300 WINCHESTER BOULEVARD** **CPS-SLIC** **N/A**
1/4-1/2 **LOS GATOS, CA 90530** **ENF**
0.396 mi. **NPDES**
2093 ft. **Site 1 of 3 in cluster K**

Relative:
Higher

Actual:
266 ft.

ENVIROSTOR:
Name: MAXXIM MEDICAL
Address: 14300 WINCHESTER BOULEVARD
City,State,Zip: LOS GATOS, CA 90530
Facility ID: 71002289
Status: Refer: Other Agency
Status Date: 05/16/2002
Site Code: 201463
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Berkeley
Assembly: 28
Senate: 13
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.26018
Longitude: -121.9630

MAXXIM MEDICAL (Continued) **S106235156**

APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD009447921
Alias Type: EPA Identification Number
Alias Name: 201463
Alias Type: Project Code (Site Code)
Alias Name: 71002289
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 05/16/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase I Verification
Completed Date: 05/16/2002
Comments: Inspection report sent on 5/16/2002

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 09/09/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Order
Completed Date: 09/09/2002
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Name: BECTON-DICKINSON
Address: 14300 WINCHESTER BOULEVARD
City,State,Zip: LOS GATOS, CA 95030
Facility ID: 43300115
Status: Refer: RWQCB
Status Date: 03/29/1990
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO

MAXXIM MEDICAL (Continued) **S106235156**

Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley
Assembly: 28
Senate: 13
Special Program: * CERC2
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.25963
Longitude: -121.9612
APN: 424-32-072
Past Use: NONE SPECIFIED
Potential COC: * HYDROCARBON SOLVENTS * UNSPECIFIED ORGANIC LIQUID MIXTURE
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: BARD PARKER CORPORATION
Alias Type: Alternate Name
Alias Name: 424-32-072
Alias Type: APN
Alias Name: CAD039133277
Alias Type: EPA Identification Number
Alias Name: CAD009447921
Alias Type: HWTS Identification Code
Alias Name: 43300115
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 10/09/1987
Comments: PRELIM ASSESS DONE PND: RWQCB IS LEAD AGENCY; CURRENTLY PERSUING REMEDIATION. SOIL AND GRD WTR CONTMN WITH STODDARD SOLVENT & PTHALATES (PLASTICIZERS).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 07/01/1987
Comments: FACILITY IDENTIFIED ID UNDER CERCLA GRANT

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 06/04/1981
Comments: FACILITY IDENTIFIED RWQCB FILES - BARD PARKER CORPORATION

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 03/29/1990
Comments: SITE SCREENING DONE EPA COMPLETED SCREENING SITE INSPECTION AND RECOMMENDS LISTING SITE INSPECTION.

Future Area Name: Not reported

MAXXIM MEDICAL (Continued) **S106235156**

Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SLIC REG 2:
Region: 2
Facility ID: SL18293714
Facility Status: Not reported
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CPS-SLIC:
Name: BECTON DICKINSON & COMPANY
Address: 14300 WINCHESTER BLVD
City,State,Zip: LOS GATOS, CA 95030
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 02/01/2008
Global Id: T0608591798
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.2601
Longitude: -121.9619
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: 43S0012
File Location: All Files are on GeoTracker or in the Local Agency Database
Potential Media Affected: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: * Solvents
EPA Region: 9
Coordinate Source: Not reported
Cuf Case: NO
Quantity Released Gallons: Not reported
Begin Date: 09/28/1990
Leak Reported Date: 09/28/1990
How Discovered: Tank Closure
How Discovered Description: Not reported
Discharge Source: Tank
Discharge Cause: Physc / Mech Damage
Stop Method: Not reported

MAXXIM MEDICAL (Continued) **S106235156**

Stop Description:	Not reported
No Further Action Date:	02/01/2008
CA Water Watershed Name:	Santa Clara - Guadalupe River (205.40)
Dwr Groundwater Subbasin Name:	Santa Clara Valley - Santa Clara (2-009.02)
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	11-15%
CA Enviroscreen 4 Score:	1-5% (lowest scores)
Military DOD Site:	No
Facility Project Subtype:	Not reported
RWQCB Region:	SAN FRANCISCO BAY RWQCB (REGION 2)
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

ENF:

Name:	BECKTON-DICKINSON
Address:	14300 WINCHESTER
City,State,Zip:	LOS GATOS, CA 95030
Region:	2
Facility Id:	209081
Agency Name:	Becton Dickerson & Company
Place Type:	Manufacturing
Place Subtype:	Manufacturing NEC
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3069
SIC Desc 1:	Fabricated Rubber Products, NEC
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	DISCHLND
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 438139N01
Reg Measure Id:	162604
Reg Measure Type:	Unregulated

MAXXIM MEDICAL (Continued) **S106235156**

Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	06/17/2005
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	222953
Region:	2
Order / Resolution Number:	95-012
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	01/18/1995
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 2 438139N01
Description:	SCR-
Program:	DISCHLND
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Name:	BECKTON-DICKINSON
Address:	14300 WINCHESTER
City,State,Zip:	LOS GATOS, CA 95030
Region:	2
Facility Id:	209081
Agency Name:	Becton Dickerson & Company
Place Type:	Manufacturing
Place Subtype:	Manufacturing NEC
Facility Type:	Industrial

MAXXIM MEDICAL (Continued) **S106235156**

Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3069
SIC Desc 1:	Fabricated Rubber Products, NEC
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	DISCHLND
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 438139N01
Reg Measure Id:	162604
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	06/17/2005
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Passive

MAXXIM MEDICAL (Continued) **S106235156**

Enforcement Id(EID):	219481
Region:	2
Order / Resolution Number:	86-100
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	12/17/1986
Adoption/Issuance Date:	Not reported
Achieve Date:	1/18/1995
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 2 438139N01
Description:	SCR-
Program:	DISCHLND
Latest Milestone Completion Date:	1/18/1995
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

NPDES:

Name:	VASONA LOS GATOS GATEWAY - OFFICE B
Address:	14300 WINCHESTER BLVD
City,State,Zip:	LOS GATOS, CA 95031
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	Not reported
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Returned
Status Date:	10/03/2010
Operator Name:	Sobrato Development Co
Operator Address:	10600 N DeAnza Blvd Ste 200
Operator City:	Cupertino
Operator State:	California
Operator Zip:	95014

K54 **BECTON DICKINSON & CO** **SEMS-ARCHIVE** **1003878324**
North **14300 WINCHESTER BLVD** **CAD039133277**
1/4-1/2 **LOS GATOS, CA 95030**
0.396 mi.
2093 ft. **Site 2 of 3 in cluster K**

Relative:
Higher

Actual:
266 ft.

SEMS Archive:

Site ID:	0901311
EPA ID:	CAD039133277
Name:	BECTON DICKINSON & CO
Address:	14300 WINCHESTER BLVD
Address 2:	Not reported
City,State,Zip:	LOS GATOS, CA 95030
Cong District:	12
FIPS Code:	06085
FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region:	09
Site ID:	0901311
EPA ID:	CAD039133277
Site Name:	BECTON DICKINSON & CO
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	Not reported
Finish Date:	1987-12-01 05:00:00
Qual:	L
Current Action Lead:	St Perf

Region:	09
Site ID:	0901311
EPA ID:	CAD039133277
Site Name:	BECTON DICKINSON & CO
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	2
Start Date:	Not reported
Finish Date:	1988-12-14 05:00:00
Qual:	L
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0901311
EPA ID:	CAD039133277
Site Name:	BECTON DICKINSON & CO
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1

BECTON DICKINSON & CO (Continued) **1003878324**

Start Date: 1985-04-01 06:00:00
Finish Date: 1985-04-01 06:00:00
Qual: Not reported
Current Action Lead: St Perf

Region: 09
Site ID: 0901311
EPA ID: CAD039133277
Site Name: BECTON DICKINSON & CO
NPL: N
FF: N
OU: 00
Action Code: SI
Action Name: SI
SEQ: 1
Start Date: Not reported
Finish Date: 1990-03-29 05:00:00
Qual: N
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901311
EPA ID: CAD039133277
Site Name: BECTON DICKINSON & CO
NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 1994-03-23 05:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

K55 **BECTON DICKINSON & COMPANY** **CPS-SLIC** **1000417388**
North **14300 WINCHESTER BLVD** **EMI** **N/A**
1/4-1/2 **LOS GATOS, CA 95030** **CERS**
0.396 mi.
2093 ft. **Site 3 of 3 in cluster K**

Relative:
Higher

Actual:
266 ft.

SLIC REG 2:
Region: 2
Facility ID: 43-1978
Facility Status: Pollution Characterization
Date Closed: Not reported
Local Case #: 43-1978
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: 9/29/1990
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

BECTON DICKINSON & COMPANY (Continued) **1000417388**

EMI:

Name:	BECTON-DICKINSON, DIV OF BECTO
Address:	14300 WINCHESTER BLVD
City,State,Zip:	LOS GATOS, CA 95030
Year:	1987
County Code:	43
Air Basin:	SF
Facility ID:	149
Air District Name:	BA
SIC Code:	3842
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	25
Reactive Organic Gases Tons/Yr:	24
Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	7
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	BECTON-DICKINSON, DIV OF BECTO
Address:	14300 WINCHESTER BLVD
City,State,Zip:	LOS GATOS, CA 95030
Year:	1990
County Code:	43
Air Basin:	SF
Facility ID:	149
Air District Name:	BA
SIC Code:	3842
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	18
Reactive Organic Gases Tons/Yr:	17
Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	6
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	BECTON-DICKINSON
Address:	14300 WINCHESTER BLVD
City,State,Zip:	LOS GATOS, CA 95030
Year:	1993
County Code:	43
Air Basin:	SF
Facility ID:	149
Air District Name:	BA
SIC Code:	3842
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	23
Reactive Organic Gases Tons/Yr:	22
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	5

BECTON DICKINSON & COMPANY (Continued) **1000417388**

SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: MAXXIM MEDICAL, INC
Address: 14300 WINCHESTER BLVD
City,State,Zip: LOS GATOS, CA 95030
Year: 1995
County Code: 43
Air Basin: SF
Facility ID: 149
Air District Name: BA
SIC Code: 3842
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 25
Reactive Organic Gases Tons/Yr: 25
Carbon Monoxide Emissions Tons/Yr: 2
NOX - Oxides of Nitrogen Tons/Yr: 6
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 1
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: MAXXIM MEDICAL, INC
Address: 14300 WINCHESTER BLVD
City,State,Zip: LOS GATOS, CA 95030
Year: 1996
County Code: 43
Air Basin: SF
Facility ID: 149
Air District Name: BA
SIC Code: 3842
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 26
Reactive Organic Gases Tons/Yr: 26
Carbon Monoxide Emissions Tons/Yr: 2
NOX - Oxides of Nitrogen Tons/Yr: 6
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 1
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: BECTON-DICKINSON, DIV OF BECTO
Address: 14300 WINCHESTER BLVD
City,State,Zip: LOS GATOS, CA 95030
Year: 1997
County Code: 43
Air Basin: SF
Facility ID: 149
Air District Name: BA
SIC Code: 3842
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 26

BECTON DICKINSON & COMPANY (Continued) **1000417388**

Reactive Organic Gases Tons/Yr:	26
Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	6
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	MAXXIM MEDICAL, INC
Address:	14300 WINCHESTER BLVD
City,State,Zip:	LOS GATOS, CA 95030
Year:	1998
County Code:	43
Air Basin:	SF
Facility ID:	11667
Air District Name:	BA
SIC Code:	3842
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	43
Reactive Organic Gases Tons/Yr:	42
Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	7
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1

Name:	MAXXIM MEDICAL, INC
Address:	14300 WINCHESTER BLVD
City,State,Zip:	LOS GATOS, CA 95030
Year:	1999
County Code:	43
Air Basin:	SF
Facility ID:	11667
Air District Name:	BA
SIC Code:	3842
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	MAXXIM MEDICAL, INC
Address:	14300 WINCHESTER BLVD
City,State,Zip:	LOS GATOS, CA 95030
Year:	2000
County Code:	43
Air Basin:	SF
Facility ID:	11667
Air District Name:	BA
SIC Code:	3842
Air District Name:	BAY AREA AQMD

BECTON DICKINSON & COMPANY (Continued) **1000417388**

Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

CERS:

Name:	MAXXIM MEDICAL INC
Address:	14300 WINCHESTER BLVD.
City,State,Zip:	LOS GATOS, CA 950301800
Site ID:	479638
CERS ID:	110000484084
CERS Description:	US EPA Air Emission Inventory System (EIS)

Affiliation:

Affiliation Type Desc:	Public Contact
Entity Name:	KEVIN L O'KELLEY
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Environmental Contact
Entity Name:	KEVIN OKELLEY
Entity Title:	Not reported
Affiliation Address:	1010 TIMOTHY DRIVE
Affiliation City:	SANJOSE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Name:	BECTON DICKINSON & COMPANY
Address:	14300 WINCHESTER BLVD
City,State,Zip:	LOS GATOS, CA 95030
Site ID:	713891
CERS ID:	T0608591798
CERS Description:	Cleanup Program Site

L56 **LOS GATOS NISSAN VOLVO** **UST FINDER RELEASE** **1029016510**
SE **15166 LOS GATOS BLVD** **N/A**
1/4-1/2 **LOS GATOS, CA 95032**
0.456 mi.
2408 ft. **Site 1 of 2 in cluster L**

Relative: **Higher**

Actual: **316 ft.**

UST FINDER RELEASE:

Object ID:	45651
Facility ID:	Not reported
Lust ID:	CAT0608500847
Name:	LOS GATOS NISSAN VOLVO

LOS GATOS NISSAN VOLVO (Continued) **1029016510**

Address:	15166 LOS GATOS BLVD
City,State,Zip:	LOS GATOS, CA 95032
Address Match Type:	PointAddress
Reported Date:	Not reported
Status:	No Further Action
Substance:	Not reported
Population within 1500ft:	1007
Domestic Wells within 1500ft:	0
Land Use:	Developed, High Intensity
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	Yes
WHPA PWS Facility ID:	CA4310011_54873
WHPA Water Type:	GW - Ground water
WHPA Facility Type:	WL - Well
WHPA HUC12:	180500030303
Within 100yr Floodplain:	No
Tribe:	Not reported
EPA Region:	9
NFA Letter 1:	Not reported
NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	Geocode
X Coord:	-121.95594
Y Coord:	37.24852
Latitude:	37.2485199999999
Longitude:	-121.955939999999

L57 **LOS GATOS NISSAN VOLVO** **LUST** **1000115928**
SE **15166 LOS GATOS BLVD** **HIST LUST** **N/A**
1/4-1/2 **LOS GATOS, CA 95032** **HIST UST**
0.456 mi. **Cortese**
2408 ft. **Site 2 of 2 in cluster L** **HIST CORTESE**
HWTS
Relative: Higher **HAZNET**
CERS
Actual: 316 ft.

LUST:

Name:	LOS GATOS NISSAN VOLVO
Address:	15166 LOS GATOS BLVD
City,State,Zip:	LOS GATOS, CA 95032
Lead Agency:	SANTA CLARA COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608500847
Global Id:	T0608500847
Latitude:	37.2481115753406
Longitude:	-121.955559253693
Status:	Completed - Case Closed
Status Date:	01/17/1992
Case Worker:	DEH
RB Case Number:	Not reported
Local Agency:	SANTA CLARA COUNTY LOP
File Location:	All Files are on GeoTracker or in the Local Agency Database

LOS GATOS NISSAN VOLVO (Continued) **1000115928**

Local Case Number:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
EPA Region:	9
Coordinate Source:	Google Map Move
Cuf Case:	NO
Quantity Released Gallons:	Not reported
Begin Date:	10/24/1989
Leak Reported Date:	10/24/1989
How Discovered:	Not reported
How Discovered Description:	Not reported
Discharge Source:	Not reported
Discharge Cause:	Not reported
Stop Method:	Not reported
Stop Description:	Not reported
No Further Action Date:	01/17/1992
CA Water Watershed Name:	Santa Clara - Guadalupe River (205.40)
Dwr Groundwater Subbasin Name:	Santa Clara Valley - Santa Clara (2-009.02)
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	6-10%
CA Enviroscreen 4 Score:	10-15%
Military DOD Site:	No
Facility Project Subtype:	Not reported
RWQCB Region:	SAN FRANCISCO BAY RWQCB (REGION 2)
Site History:	Not reported

LUST:

Global Id:	T0608500847
Contact Type:	Local Agency Caseworker - Primary Caseworker
Contact Name:	DEH CASEWORKER
Organization Name:	SANTA CLARA COUNTY LOP
Address:	1555 Berger Drive, Suite 300
City:	SAN JOSE
Email:	smp@deh.sccgov.org
Phone Number:	4089183400

Global Id:	T0608500847
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0608500847
Action Type:	ENFORCEMENT
Date:	09/28/1991
Action:	Notice of Responsibility - #39323

Global Id:	T0608500847
Action Type:	ENFORCEMENT
Date:	01/17/1992
Action:	Closure/No Further Action Letter

Global Id:	T0608500847

LOS GATOS NISSAN VOLVO (Continued) **1000115928**

Action Type: REMEDIATION
Date: 10/24/1989
Action: Excavation

Global Id: T0608500847
Action Type: Other
Date: 10/24/1989
Action: Leak Reported

Global Id: T0608500847
Action Type: RESPONSE
Date: 11/22/1989
Action: Other Report / Document

LUST:
Global Id: T0608500847
Status: Open - Case Begin Date
Status Date: 10/24/1989

Global Id: T0608500847
Status: Open - Site Assessment
Status Date: 11/14/1990

Global Id: T0608500847
Status: Completed - Case Closed
Status Date: 01/17/1992

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 08S1W10K01f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 11/14/1990
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:
Name: LOS GATOS NISSAN VOLVO
Address: 15166 LOS GATOS BLVD
City,State,Zip: LOS GATOS, CA
Region: SANTA CLARA
SCVWD ID: 08S1W10K01F
Date Closed: 01/17/1992
EDR Link ID: 08S1W10K01F

HIST LUST SC:

LOS GATOS NISSAN VOLVO (Continued) **1000115928**

Name: Los Gatos Nissan Volvo
Address: 15166 Los Gatos Blvd
City: Los Gatos
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 08S1W10K01
Oversite Agency: SCVWD
Date Listed: 1990-01-01 00:00:00
Closed Date: 1992-01-17 00:00:00

HIST UST:
Name: LOS GATOS DATSUN VOLVO, INC.
Address: 15166 LOS GATOS BLVD
City,State,Zip: LOS GATOS, CA 95030
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000001705
Facility Type: Other
Other Type: CAR DEALER
Contact Name: RICHARD SPENCER
Telephone: 4083581981
Owner Name: LOS GATOS DATSUN VOLVO, INC.
Owner Address: 15166 LOS GATOS BLVD.
Owner City,St,Zip: LOS GATOS, CA 95030
Total Tanks: 0005

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00000550
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 3
Year Installed: Not reported
Tank Capacity: 00000550
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: 4
Year Installed: Not reported

LOS GATOS NISSAN VOLVO (Continued) **1000115928**

Tank Capacity: 00000500
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 005
Container Num: 3
Year Installed: 1979
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Pressure Test

CORTESE:
Name: LOS GATOS NISSAN VOLVO
Address: 15166 LOS GATOS BLVD
City,State,Zip: LOS GATOS, CA 95032
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0608500847
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HIST CORTESE:
edr_fname: LOS GATOS NISSAN VOLVO
edr_fadd1: 15166 LOS GATOS
City,State,Zip: LOS GATOS, CA 95030
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-0833

HWTS:
Name: OFFICE DEPOT #950
Address: 15166 LOS GATOS BLVD
Address 2: Not reported
City,State,Zip: LOS GATOS, CA 95032
EPA ID: CAL000420814

LOS GATOS NISSAN VOLVO (Continued) **1000115928**

Inactive Date:	Not reported
Create Date:	10/07/2016
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	6600 N MILITARY TRAIL MAILCODE C492
Mailing Address 2:	Not reported
Mailing City,State,Zip:	BOCA RATON, FL 334960000
Owner Name:	OFFICEMAX NORTH AMERICA INC
Owner Address:	6600 N MILITARY TRAIL MAILCODE C492
Owner Address 2:	Not reported
Owner City,State,Zip:	BOCA RATON, FL 334960000
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	WENDI LANE
Contact Address:	6600 N MILITARY TRAIL C492
Contact Address 2:	Not reported
City,State,Zip:	BOCA RATON, FL 33496
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Active
Facility Type:	PERMANENT
Category:	STATE
Latitude:	37.248066
Longitude:	-121.9553775

NAICS:

EPA ID:	CAL000420814
Create Date:	2016-10-07 16:51:23.543
NAICS Code:	45321
NAICS Description:	Office Supplies and Stationery Stores
Issued EPA ID Date:	2016-10-07 16:51:23.50700
Inactive Date:	Not reported
Facility Name:	OFFICE DEPOT #950
Facility Address:	15166 LOS GATOS BLVD
Facility Address 2:	Not reported
Facility City:	LOS GATOS
Facility County:	Not reported
Facility State:	CA
Facility Zip:	95032

HAZNET:

Name:	OFFICE DEPOT #950
Address:	15166 LOS GATOS BLVD
Address 2:	Not reported
City,State,Zip:	LOS GATOS, CA 95032
Contact:	WENDI LANE
Telephone:	5614385558
Mailing Name:	Not reported
Mailing Address:	6600 N MILITARY TRAIL MAILCODE C492
Year:	2021
Gepaid:	CAL000420814
TSD EPA ID:	AZR000515924
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

LOS GATOS NISSAN VOLVO (Continued) **1000115928**

Tons: 0.006

Year: 2020
Gepaid: CAL000420814
TSD EPA ID: NVD980895338
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.0035

Year: 2020
Gepaid: CAL000420814
TSD EPA ID: CAD980884183
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.001

Year: 2020
Gepaid: CAL000420814
TSD EPA ID: AZR000515924
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.0085

Year: 2019
Gepaid: CAL000420814
TSD EPA ID: AZR000515924
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.01250

Year: 2019
Gepaid: CAL000420814
TSD EPA ID: NVD980895338
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.00200

Year: 2019
Gepaid: CAL000420814
TSD EPA ID: NVD980895338
CA Waste Code: 181 - Other inorganic solid waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.00050

Year: 2019
Gepaid: CAL000420814
TSD EPA ID: NVD980895338
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.00050

LOS GATOS NISSAN VOLVO (Continued) **1000115928**

Year:	2018
Gepaid:	CAL000420814
TSD EPA ID:	CAD008364432
CA Waste Code:	122 - Alkaline solution without metals pH >= 12.5
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.01050
Year:	2018
Gepaid:	CAL000420814
TSD EPA ID:	NVD980895338
CA Waste Code:	214 - Unspecified solvent mixture
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.00550

Click this hyperlink while viewing on your computer to access
4 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year:	2021
Gen EPA ID:	CAL000420814
Shipment Date:	4/10/2020
Creation Date:	5/1/2020
Receipt Date:	4/29/2020
Manifest ID:	014395149FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	MNS000110924
Trans 2 Name:	Stericycle Specialty Waste Solutions Inc
TSDF EPA ID:	CAD980884183
Trans Name:	GEM Rancho Cordova LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001,D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	4/10/2020
Creation Date:	5/21/2020
Receipt Date:	4/28/2020
Manifest ID:	014395150FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEM INC

LOS GATOS NISSAN VOLVO (Continued) **1000115928**

TSDF EPA ID:	AZR000515924
Trans Name:	YUMA YES WASTE TRANSFER FACILITY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0075
Waste Quantity:	15
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	4/10/2020
Creation Date:	5/21/2020
Receipt Date:	4/28/2020
Manifest ID:	014395150FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEM INC
TSDF EPA ID:	AZR000515924
Trans Name:	YUMA YES WASTE TRANSFER FACILITY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	12/31/2020
Creation Date:	2/17/2021
Receipt Date:	2/4/2021
Manifest ID:	015598398FLE
Trans EPA ID:	MNS000110924
Trans Name:	CLEAN EARTH SPECIALTY WASTE SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	GEM Rancho Cordova LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001,D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

LOS GATOS NISSAN VOLVO (Continued) **1000115928**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	12/31/2020
Creation Date:	1/26/2021
Receipt Date:	1/19/2021
Manifest ID:	015598399FLE
Trans EPA ID:	MNS000110924
Trans Name:	CLEAN EARTH SPECIALTY WASTE SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVD980895338
Trans Name:	21st Century Environmental Management of Nevada, LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001,D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0035
Waste Quantity:	7
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	12/31/2020
Creation Date:	2/15/2021
Receipt Date:	1/15/2021
Manifest ID:	015598400FLE
Trans EPA ID:	MNS000110924
Trans Name:	CLEAN EARTH SPECIALTY WASTE SOLUTIONS, INC.
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEM INC
TSDF EPA ID:	AZR000515924
Trans Name:	YUMA YES WASTE TRANSFER FACILITY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

LOS GATOS NISSAN VOLVO (Continued) **1000115928**

Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2020
Gen EPA ID:	CAL000420814
Shipment Date:	4/10/2020
Creation Date:	5/1/2020
Receipt Date:	4/29/2020
Manifest ID:	014395149FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	MNS000110924
Trans 2 Name:	Stericycle Specialty Waste Solutions Inc
TSDF EPA ID:	CAD980884183
Trans Name:	GEM Rancho Cordova LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001,D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	4/10/2020
Creation Date:	5/21/2020
Receipt Date:	4/28/2020
Manifest ID:	014395150FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEM INC
TSDF EPA ID:	AZR000515924
Trans Name:	YUMA YES WASTE TRANSFER FACILITY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0075
Waste Quantity:	15
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

LOS GATOS NISSAN VOLVO (Continued) **1000115928**

Shipment Date:	4/10/2020
Creation Date:	5/21/2020
Receipt Date:	4/28/2020
Manifest ID:	014395150FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEM INC
TSDF EPA ID:	AZR000515924
Trans Name:	YUMA YES WASTE TRANSFER FACILITY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	12/31/2020
Creation Date:	2/17/2021
Receipt Date:	2/4/2021
Manifest ID:	015598398FLE
Trans EPA ID:	MNS000110924
Trans Name:	CLEAN EARTH SPECIALTY WASTE SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	GEM Rancho Cordova LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001,D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	12/31/2020
Creation Date:	1/26/2021
Receipt Date:	1/19/2021
Manifest ID:	015598399FLE
Trans EPA ID:	MNS000110924
Trans Name:	CLEAN EARTH SPECIALTY WASTE SOLUTIONS
Trans 2 EPA ID:	Not reported

LOS GATOS NISSAN VOLVO (Continued) **1000115928**

Trans 2 Name:	Not reported
TSDF EPA ID:	NVD980895338
Trans Name:	21st Century Environmental Management of Nevada, LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001,D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0035
Waste Quantity:	7
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	12/31/2020
Creation Date:	2/15/2021
Receipt Date:	1/15/2021
Manifest ID:	015598400FLE
Trans EPA ID:	MNS000110924
Trans Name:	CLEAN EARTH SPECIALTY WASTE SOLUTIONS, INC.
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEM INC
TSDF EPA ID:	AZR000515924
Trans Name:	YUMA YES WASTE TRANSFER FACILITY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Detail Two:

Year:	2020
EM Manifest ID:	42ba8f5c-50a4-4cf0-89ef-4bd16f27a465
Shipment Date:	4/10/2020
Receipt Date:	4/29/2020
Manifest Number:	014395149FLE
Generator EPA ID:	CAL000420814
Name:	OFFICE DEPOT
Address:	15166 LOS GATOS BLVD
Address 2:	Not reported
City:	LOS GATOS
Zip:	95032
Telephone:	877-577-2669
Contact:	Not reported

LOS GATOS NISSAN VOLVO (Continued) **1000115928**

Contact Telephone: 916-351-0980
Transporter 1 EPA ID: MNS000110924
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: MNS000110924
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: CAD980884183
TSDF Name: GEM Rancho Cordova LLC
TSDF Address 1: 11855 White Rock Road
TSDF Address 2: Not reported
TSDF City: Rancho Cordova
TSDF Zip: 95742
TSDF Telephone: Not reported

Federal:
Year: 2020
EM Manifest ID: 42ba8f5c-50a4-4cf0-89ef-4bd16f27a465
Generator EPA ID: CAL000420814
Shipment Date: 2020-04-10
Manifest Number: 014395149FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00050
Quantity Waste: 1.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D001

Year: 2020
EM Manifest ID: 42ba8f5c-50a4-4cf0-89ef-4bd16f27a465
Generator EPA ID: CAL000420814
Shipment Date: 2020-04-10
Manifest Number: 014395149FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00050
Quantity Waste: 1.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D035

State:
Year: 2020
EM Manifest ID: 42ba8f5c-50a4-4cf0-89ef-4bd16f27a465
Generator EPA ID: CAL000420814
Shipment Date: 2020-04-10
Manifest Number: 014395149FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00050
Quantity Waste: 1.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases

LOS GATOS NISSAN VOLVO (Continued) **1000115928**

Quantity Type: Pounds
State Code: 214

Year: 2020
EM Manifest ID: 305ba4a7-edbc-4c61-88da-3ea579d09c6f
Shipment Date: 4/10/2020
Receipt Date: 4/28/2020
Manifest Number: 014395150FLE
Generator EPA ID: CAL000420814
Name: OFFICE DEPOT #950
Address: 15166 LOS GATOS BLVD
Address 2: Not reported
City: LOS GATOS
Zip: 95032
Telephone: 877-577-2669
Contact: Not reported
Contact Telephone: 408-356-3757
Transporter 1 EPA ID: MNS000110924
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: CAR000175422
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: AZR000515924
TSDF Name: YUMA YES WASTE TRANSFER FACILITY
TSDF Address 1: 2730 E 13TH ST
TSDF Address 2: Not reported
TSDF City: YUMA
TSDF Zip: 85365-1901
TSDF Telephone: Not reported

State:
Year: 2020
EM Manifest ID: 305ba4a7-edbc-4c61-88da-3ea579d09c6f
Generator EPA ID: CAL000420814
Shipment Date: 2020-04-10
Manifest Number: 014395150FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00750
Quantity Waste: 15.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
State Code: 331

Year: 2020
EM Manifest ID: 305ba4a7-edbc-4c61-88da-3ea579d09c6f
Generator EPA ID: CAL000420814
Shipment Date: 2020-04-10
Manifest Number: 014395150FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00050
Quantity Waste: 1.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases

LOS GATOS NISSAN VOLVO (Continued) **1000115928**

Quantity Type:	Pounds
State Code:	331
Year:	2020
EM Manifest ID:	992907
Shipment Date:	10/14/2019
Receipt Date:	11/4/2019
Manifest Number:	013417484FLE
Generator EPA ID:	CAL000420814
Name:	OFFICE DEPOT
Address:	15166 LOS GATOS BLVD
Address 2:	Not reported
City:	LOS GATOS
Zip:	95032
Telephone:	877-577-2669
Contact:	Not reported
Contact Telephone:	775-575-2760
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MNS000110924
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	NVD980895338
TSDF Name:	21st Century Environmental Management of Nevada, LLC
TSDF Address 1:	2095 Newlands Drive East
TSDF Address 2:	Not reported
TSDF City:	Fernley
TSDF Zip:	89408
TSDF Telephone:	Not reported

Federal:

Year:	2020
EM Manifest ID:	992907
Generator EPA ID:	CAL000420814
Shipment Date:	2019-10-14
Manifest Number:	013417484FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D009
Year:	2020
EM Manifest ID:	992907
Generator EPA ID:	CAL000420814
Shipment Date:	2019-10-14
Manifest Number:	013417484FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00200
Quantity Waste:	4.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases

LOS GATOS NISSAN VOLVO (Continued) **1000115928**

Quantity Type: Pounds
Federal Code: D001

Year: 2020
EM Manifest ID: 992907
Generator EPA ID: CAL000420814
Shipment Date: 2019-10-14
Manifest Number: 013417484FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00200
Quantity Waste: 4.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D035

State:
Year: 2020
EM Manifest ID: 992907
Generator EPA ID: CAL000420814
Shipment Date: 2019-10-14
Manifest Number: 013417484FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00050
Quantity Waste: 1.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
State Code: 181

Year: 2020
EM Manifest ID: 992907
Generator EPA ID: CAL000420814
Shipment Date: 2019-10-14
Manifest Number: 013417484FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00200
Quantity Waste: 4.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
State Code: 331

Year: 2020
EM Manifest ID: 13ace327-a4c8-4d92-86d9-c22564960369
Shipment Date: 10/14/2019
Receipt Date: 11/14/2019
Manifest Number: 013417483FLE
Generator EPA ID: CAL000420814
Name: OFFICE DEPOT

LOS GATOS NISSAN VOLVO (Continued) **1000115928**

Address:	15166 LOS GATOS BLVD
Address 2:	Not reported
City:	LOS GATOS
Zip:	95032
Telephone:	877-577-2669
Contact:	Not reported
Contact Telephone:	916-351-0980
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MNS000110924
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD980884183
TSDF Name:	GEM Rancho Cordova LLC
TSDF Address 1:	11855 White Rock Road
TSDF Address 2:	Not reported
TSDF City:	Rancho Cordova
TSDF Zip:	95742
TSDF Telephone:	Not reported

Federal:

Year:	2020
EM Manifest ID:	13ace327-a4c8-4d92-86d9-c22564960369
Generator EPA ID:	CAL000420814
Shipment Date:	2019-10-14
Manifest Number:	013417483FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.01650
Quantity Waste:	33.000000
Quantity Unit:	P
Number of Containers:	2
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D001

Year:	2020
EM Manifest ID:	13ace327-a4c8-4d92-86d9-c22564960369
Generator EPA ID:	CAL000420814
Shipment Date:	2019-10-14
Manifest Number:	013417483FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.01650
Quantity Waste:	33.000000
Quantity Unit:	P
Number of Containers:	2
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D035

State:

Year:	2020
EM Manifest ID:	13ace327-a4c8-4d92-86d9-c22564960369
Generator EPA ID:	CAL000420814
Shipment Date:	2019-10-14
Manifest Number:	013417483FLE
Line Number:	1

LOS GATOS NISSAN VOLVO (Continued) **1000115928**

Method Code:	H141
Quantity Tons:	0.01650
Quantity Waste:	33.000000
Quantity Unit:	P
Number of Containers:	2
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	214

Detail Two:

Year:	2019
EM Manifest ID:	921e6580-0da0-4bbe-9c8a-9d98f462b043
Shipment Date:	4/25/2019
Receipt Date:	5/10/2019
Manifest Number:	012485013FLE
Generator EPA ID:	CAL000420814
Name:	OFFICE DEPOT #950
Address:	15166 LOS GATOS BLVD
Address 2:	Not reported
City:	LOS GATOS
Zip:	95032
Telephone:	877-577-2669
Contact:	Not reported
Contact Telephone:	408-356-3757
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000175422
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000515924
TSDF Name:	YUMA YES WASTE TRANSFER FACILITY
TSDF Address 1:	2730 E 13TH ST
TSDF Address 2:	Not reported
TSDF City:	YUMA
TSDF Zip:	85365-1901
TSDF Telephone:	Not reported

State:

Year:	2019
EM Manifest ID:	921e6580-0da0-4bbe-9c8a-9d98f462b043
Generator EPA ID:	CAL000420814
Shipment Date:	2019-04-25
Manifest Number:	012485013FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00900
Quantity Waste:	18.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	331

Year:	2019
EM Manifest ID:	384899
Shipment Date:	4/25/2019

LOS GATOS NISSAN VOLVO (Continued) **1000115928**

Receipt Date:	5/20/2019
Manifest Number:	012485012FLE
Generator EPA ID:	CAL000420814
Name:	OFFICE DEPOT
Address:	15166 LOS GATOS BLVD
Address 2:	Not reported
City:	LOS GATOS
Zip:	95032
Telephone:	877-577-2669
Contact:	Not reported
Contact Telephone:	775-575-2760
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MNS000110924
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	NVD980895338
TSDF Name:	21st Century Environmental Management of Nevada, LLC
TSDF Address 1:	2095 Newlands Drive East
TSDF Address 2:	Not reported
TSDF City:	Fernley
TSDF Zip:	89408
TSDF Telephone:	Not reported

Federal:

Year:	2019
EM Manifest ID:	384899
Generator EPA ID:	CAL000420814
Shipment Date:	2019-04-25
Manifest Number:	012485012FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D001

Year:	2019
EM Manifest ID:	384899
Generator EPA ID:	CAL000420814
Shipment Date:	2019-04-25
Manifest Number:	012485012FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D035

State:

Year:	2019
EM Manifest ID:	384899

LOS GATOS NISSAN VOLVO (Continued) **1000115928**

Generator EPA ID:	CAL000420814
Shipment Date:	2019-04-25
Manifest Number:	012485012FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
State Code:	214

Year:	2019
EM Manifest ID:	689208
Shipment Date:	10/14/2019
Receipt Date:	11/4/2019
Manifest Number:	013417485FLE
Generator EPA ID:	CAL000420814
Name:	OFFICE DEPOT #950
Address:	15166 LOS GATOS BLVD
Address 2:	Not reported
City:	LOS GATOS
Zip:	95032
Telephone:	877-577-2669
Contact:	Not reported
Contact Telephone:	408-356-3757
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000175422
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000515924
TSDF Name:	YUMA YES WASTE TRANSFER FACILITY
TSDF Address 1:	2730 E 13TH ST
TSDF Address 2:	Not reported
TSDF City:	YUMA
TSDF Zip:	85365-1901
TSDF Telephone:	Not reported

State:

Year:	2019
EM Manifest ID:	689208
Generator EPA ID:	CAL000420814
Shipment Date:	2019-10-14
Manifest Number:	013417485FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.01250
Quantity Waste:	25.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	331

LOS GATOS NISSAN VOLVO (Continued) **1000115928**

Detail Two:

Year:	2018
EM Manifest ID:	009158871FLE20170515_D_1
Shipment Date:	5/15/2017
Receipt Date:	5/23/2017
Manifest Number:	009158871FLE
Generator EPA ID:	CAL000420814
Name:	OFFICE DEPOT #950
Address:	Not reported
Address 2:	Not reported
City:	Not reported
Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	NED986382133
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	NVD980895338
TSDF Name:	21ST CENTURY EMN LLC
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City:	Not reported
TSDF Zip:	Not reported
TSDF Telephone:	Not reported

State:

Year:	2018
EM Manifest ID:	009158871FLE20170515_D_1
Generator EPA ID:	CAL000420814
Shipment Date:	2017-05-15
Manifest Number:	009158871FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00100
Quantity Waste:	2.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	331

Year:	2018
EM Manifest ID:	213058
Shipment Date:	11/1/2018
Receipt Date:	12/6/2018
Manifest Number:	012415203FLE
Generator EPA ID:	CAL000420814
Name:	OFFICE DEPOT
Address:	15166 LOS GATOS BLVD
Address 2:	Not reported
City:	LOS GATOS
Zip:	95032
Telephone:	877-577-2669
Contact:	Not reported

LOS GATOS NISSAN VOLVO (Continued) **1000115928**

Contact Telephone:	775-575-2760
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MNS000110924
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	NVD980895338
TSDF Name:	21st Century Environmental Management of Nevada, LLC
TSDF Address 1:	2095 Newlands Drive East
TSDF Address 2:	Not reported
TSDF City:	Fernley
TSDF Zip:	89408
TSDF Telephone:	Not reported

Federal:

Year:	2018
EM Manifest ID:	213058
Generator EPA ID:	CAL000420814
Shipment Date:	2018-11-01
Manifest Number:	012415203FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00550
Quantity Waste:	11.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D001

Year:	2018
EM Manifest ID:	213058
Generator EPA ID:	CAL000420814
Shipment Date:	2018-11-01
Manifest Number:	012415203FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00550
Quantity Waste:	11.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D035

State:

Year:	2018
EM Manifest ID:	213058
Generator EPA ID:	CAL000420814
Shipment Date:	2018-11-01
Manifest Number:	012415203FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00550
Quantity Waste:	11.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases

LOS GATOS NISSAN VOLVO (Continued) **1000115928**

Quantity Type: Pounds
State Code: 214

Year: 2018
EM Manifest ID: 195352
Shipment Date: 11/1/2018
Receipt Date: 11/12/2018
Manifest Number: 012415202FLE
Generator EPA ID: CAL000420814
Name: OFFICE DEPOT
Address: 15166 LOS GATOS BLVD
Address 2: Not reported
City: LOS GATOS
Zip: 95032
Telephone: 877-577-2669
Contact: Not reported
Contact Telephone: 323-776-6233
Transporter 1 EPA ID: MNS000110924
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: MNS000110924
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: CAD008364432
TSDF Name: Rho Chem LLC
TSDF Address 1: 425 Isis Ave.
TSDF Address 2: Not reported
TSDF City: Inglewood
TSDF Zip: 90301
TSDF Telephone: Not reported

Federal:
Year: 2018
EM Manifest ID: 195352
Generator EPA ID: CAL000420814
Shipment Date: 2018-11-01
Manifest Number: 012415202FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.01050
Quantity Waste: 21.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D002

State:
Year: 2018
EM Manifest ID: 195352
Generator EPA ID: CAL000420814
Shipment Date: 2018-11-01
Manifest Number: 012415202FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.01050
Quantity Waste: 21.000000
Quantity Unit: P

LOS GATOS NISSAN VOLVO (Continued) **1000115928**

Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
State Code: 122

Additional Info:
Year: 2017
Gen EPA ID: CAL000420814

Shipment Date: 20170515
Creation Date: 7/17/2018 18:30:18
Receipt Date: 20170523
Manifest ID: 009158871FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: NED986382133
Trans 2 Name: SMITH SYSTEMS
TSDF EPA ID: NVD980895338
Trans Name: 21ST CENTURY EMN LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 331 - Off-specification, aged, or surplus organics
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.001
Waste Quantity: 2
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

CERS:
Name: LOS GATOS NISSAN VOLVO
Address: 15166 LOS GATOS BLVD
City,State,Zip: LOS GATOS, CA 95032
Site ID: 742397
CERS ID: T0608500847
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: DEH CASEWORKER - SANTA CLARA COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: SAN JOSE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 4089183400,

Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported

LOS GATOS NISSAN VOLVO (Continued) **1000115928**

Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

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58 **VASONA STATION ORCHID CLEANERS** **CPS-SLIC S124446357**
North **14107-Q WINCHESTER BLVD** **CERS N/A**
1/4-1/2 **LOS GATOS, CA 95032**
0.457 mi.
2411 ft.

Relative:
Higher

Actual:
265 ft.

CPS-SLIC:

Name:	VASONA STATION ORCHID CLEANERS
Address:	14107-Q WINCHESTER BLVD
City,State,Zip:	LOS GATOS, CA 95032
Region:	STATE
Facility Status:	**Open - Assessment & Interim Remedial Action**
Status Date:	08/07/2019
Global Id:	T10000013257
Lead Agency:	SANTA CLARA COUNTY LOP
Lead Agency Case Number:	2019-12s
Latitude:	37.26241
Longitude:	-121.96266
Case Type:	Cleanup Program Site
Case Worker:	SM
Local Agency:	SANTA CLARA COUNTY LOP
RB Case Number:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Database
Potential Media Affected:	Other Groundwater (uses other than drinking water), Soil, Soil Vapor
Potential Contaminants of Concern:	Tetrachloroethylene (PCE), Trichloroethylene (TCE), Vinyl chloride
EPA Region:	9
Coordinate Source:	Not reported
Cuf Case:	NO
Quantity Released Gallons:	Not reported
Begin Date:	07/24/2019
Leak Reported Date:	Not reported
How Discovered:	Not reported
How Discovered Description:	Not reported
Discharge Source:	Not reported
Discharge Cause:	Not reported
Stop Method:	Not reported
Stop Description:	Not reported
No Further Action Date:	Not reported
CA Water Watershed Name:	Santa Clara - Guadalupe River (205.40)
Dwr Groundwater Subbasin Name:	Santa Clara Valley - Santa Clara (2-009.02)
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	26-30%
CA Enviroscreen 4 Score:	5-10%
Military DOD Site:	No
Facility Project Subtype:	Not reported
RWQCB Region:	SAN FRANCISCO BAY RWQCB (REGION 2)
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

VASONA STATION ORCHID CLEANERS (Continued) **S124446357**

CERS:
Name: VASONA STATION ORCHID CLEANERS
Address: 14107-Q WINCHESTER BLVD
City,State,Zip: LOS GATOS, CA 95032
Site ID: 772236
CERS ID: T10000013257
CERS Description: Cleanup Program Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: SHALOM MARQUARDT - SANTA CLARA COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: SAN JOSE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 4089181943,

M59 **GTE** **LUST** **S101303651**
SW **930 UNIVERSITY AVE** **HIST LUST** **N/A**
1/4-1/2 **LOS GATOS, CA 95030** **Cortese**
0.470 mi.
2480 ft. **Site 1 of 3 in cluster M**

Relative:
Higher

Actual:
293 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 08S1W10M01f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 1/22/1985
Pollution Characterization Began: 1/22/1985
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HIST LUST SC:
Name: GTE
Address: 930 University Ave
City: Los Gatos
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 08S1W10M01
Oversite Agency: SCVWD
Date Listed: 1986-01-01 00:00:00
Closed Date: 1996-03-25 00:00:00

CORTESE:
Name: GTE
Address: 930 UNIVERSITY AVE

GTE (Continued) **S101303651**

City,State,Zip:	LOS GATOS, CA 95030
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0608500674
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

M60 **VASONA P/Y** **LUST** **S103676528**
SW **930 UNIVERSITY AVE** **SWEEPS UST** **N/A**
1/4-1/2 **LOS GATOS, CA 95030** **HIST CORTESE**
0.470 mi. **CERS**
2480 ft. **Site 2 of 3 in cluster M**

Relative: **Higher**
Actual: **293 ft.**

LUST:

Name:	GTE
Address:	930 UNIVERSITY AVE
City,State,Zip:	LOS GATOS, CA 95030
Lead Agency:	SANTA CLARA COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608500674
Global Id:	T0608500674
Latitude:	37.248011
Longitude:	-121.965566
Status:	Completed - Case Closed
Status Date:	03/25/1996
Case Worker:	DEH
RB Case Number:	Not reported
Local Agency:	SANTA CLARA COUNTY LOP
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
EPA Region:	9
Coordinate Source:	* Digitized From APN (Acessor Parcel Maps)
Cuf Case:	YES
Quantity Released Gallons:	Not reported
Begin Date:	01/22/1985
Leak Reported Date:	01/28/1985
How Discovered:	Not reported
How Discovered Description:	Not reported
Discharge Source:	Not reported
Discharge Cause:	Not reported

VASONA P/Y (Continued) **S103676528**

Stop Method: Not reported
Stop Description: Not reported
No Further Action Date: 03/25/1996
CA Water Watershed Name: Santa Clara - Guadalupe River (205.40)
Dwr Groundwater Subbasin Name: Santa Clara Valley - Santa Clara (2-009.02)
Disadvantaged Community: Not reported
CA Enviroscreen 3 Score: 11-15%
CA Enviroscreen 4 Score: 1-5% (lowest scores)
Military DOD Site: No
Facility Project Subtype: Not reported
RWQCB Region: SAN FRANCISCO BAY RWQCB (REGION 2)
Site History: Not reported

LUST:
Global Id: T0608500674
Contact Type: Local Agency Caseworker - Primary Caseworker
Contact Name: DEH CASEWORKER
Organization Name: SANTA CLARA COUNTY LOP
Address: 1555 Berger Drive, Suite 300
City: SAN JOSE
Email: smp@deh.sccgov.org
Phone Number: 4089183400

Global Id: T0608500674
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0608500674
Action Type: ENFORCEMENT
Date: 08/03/1989
Action: Notice of Responsibility - #39325

Global Id: T0608500674
Action Type: RESPONSE
Date: 03/25/1996
Action: Other Report / Document

Global Id: T0608500674
Action Type: REMEDIATION
Date: 03/23/1988
Action: Excavation

Global Id: T0608500674
Action Type: ENFORCEMENT
Date: 03/25/1996
Action: Closure/No Further Action Letter

Global Id: T0608500674
Action Type: Other
Date: 01/28/1985
Action: Leak Reported

VASONA P/Y (Continued) **S103676528**

LUST:
Global Id: T0608500674
Status: Open - Case Begin Date
Status Date: 01/22/1985

Global Id: T0608500674
Status: Open - Site Assessment
Status Date: 01/22/1985

Global Id: T0608500674
Status: Completed - Case Closed
Status Date: 03/25/1996

LUST SANTA CLARA:
Name: GTE
Address: 930 UNIVERSITY AVE
City,State,Zip: LOS GATOS, CA
Region: SANTA CLARA
SCVWD ID: 08S1W10M01F
Date Closed: 03/25/1996
EDR Link ID: 08S1W10M01F

SWEEPS UST:
Name: VASONA P/Y
Address: 930 UNIVERSITY AVE
City: LOS GATOS
Status: Active
Comp Number: 12893
Number: 1
Board Of Equalization: Not reported
Referral Date: 02-03-92
Action Date: 02-03-92
Created Date: 02-03-92
Owner Tank Id: 001
SWRCB Tank Id: 43-000-012893-000001
Tank Status: A
Capacity: 2000
Active Date: 02-03-92
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: 2

Name: VASONA P/Y
Address: 930 UNIVERSITY AVE
City: LOS GATOS
Status: Active
Comp Number: 12893
Number: 1
Board Of Equalization: Not reported
Referral Date: 02-03-92
Action Date: 02-03-92
Created Date: 02-03-92
Owner Tank Id: 002
SWRCB Tank Id: 43-000-012893-000002

VASONA P/Y (Continued) **S103676528**

Tank Status: A
Capacity: 10000
Active Date: 02-03-92
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: VASONA PLANT YARD, GTE CALIFORNIA INC.
Address: 930 UNIVERSITY AVE
City: LOS GATOS
Status: Not reported
Comp Number: 12893
Number: Not reported
Board Of Equalization: 44-007526
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 43-003-012893-000001
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 1

Name: VASONA PLANT YARD/GTE CALIFORNIA INC.
Address: 930 UNIVERSITY AVE
City: LOS GATOS
Status: Active
Comp Number: 12893
Number: 1
Board Of Equalization: 44-007526
Referral Date: 05-12-93
Action Date: 03-11-94
Created Date: 02-29-88
Owner Tank Id: 2
SWRCB Tank Id: 43-003-012893-000002
Tank Status: A
Capacity: 10000
Active Date: 05-12-93
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: 1

HIST CORTESE:
edr_fname: GENERAL TELEPHONE COMPANY
edr_fadd1: 930 UNIVERSITY
City,State,Zip: LOS GATOS, CA 95030
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-0640

VASONA P/Y (Continued) **S103676528**

CERS:
- Name: GTE
- Address: 930 UNIVERSITY AVE
- City,State,Zip: LOS GATOS, CA 95030
- Site ID: 735012
- CERS ID: T0608500674
- CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
- Affiliation Type Desc: Local Agency Caseworker
- Entity Name: DEH CASEWORKER - SANTA CLARA COUNTY LOP
- Entity Title: Not reported
- Affiliation Address: 1555 Berger Drive, Suite 300
- Affiliation City: SAN JOSE
- Affiliation State: CA
- Affiliation Country: Not reported
- Affiliation Zip: Not reported
- Affiliation Phone: 4089183400,

- Affiliation Type Desc: Regional Board Caseworker
- Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
- Entity Title: Not reported
- Affiliation Address: 1515 CLAY ST SUITE 1400
- Affiliation City: OAKLAND
- Affiliation State: CA
- Affiliation Country: Not reported
- Affiliation Zip: Not reported
- Affiliation Phone: ,

M61 **GTE** **UST FINDER RELEASE** **1028972691**
SW **930 UNIVERSITY AVE** **N/A**
1/4-1/2 **LOS GATOS, CA 95030**
0.470 mi.
2480 ft. **Site 3 of 3 in cluster M**

Relative:
Higher

Actual:
293 ft.

UST FINDER RELEASE:
- Object ID: 45504
- Facility ID: Not reported
- Lust ID: CAT0608500674
- Name: GTE
- Address: 930 UNIVERSITY AVE
- City,State,Zip: LOS GATOS, CA 95030
- Address Match Type: PointAddress
- Reported Date: Not reported
- Status: No Further Action
- Substance: Not reported
- Population within 1500ft: 740
- Domestic Wells within 1500ft: 0
- Land Use: Developed, Open Space
- Within SPA: No
- SPA PWS Facility ID: Not reported
- SPA Water Type: Not reported
- SPA Facility Type: Not reported
- SPA HUC12: Not reported
- Within WHPA: Yes
- WHPA PWS Facility ID: CA4310011_54873
- WHPA Water Type: GW - Ground water

GTE (Continued) **1028972691**

WHPA Facility Type:	WL - Well
WHPA HUC12:	180500030303
Within 100yr Floodplain:	No
Tribe:	Not reported
EPA Region:	9
NFA Letter 1:	Not reported
NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	Geocode
X Coord:	-121.9665
Y Coord:	37.24834
Latitude:	37.2483399999999
Longitude:	-121.966499999999

N62 **ORCHID CLEANERS** **RCRA-SQG** **1000241375**
SSE **15310 LOS GATOS BLVD** **CPS-SLIC** **CAD982373136**
1/4-1/2 **LOS GATOS, CA 95030** **BROWNFIELDS**
0.477 mi. **CERS HAZ WASTE**
2518 ft. **Site 1 of 3 in cluster N** **CUPA Listings**
DRYCLEANERS
Relative: **EMI**
Higher **HWTS**
Actual: **HAZNET**
323 ft. **CERS**

RCRA Listings:

Date Form Received by Agency:	19880426
Handler Name:	Orchid Cleaners
Handler Address:	Los Gatos Blvd
Handler City,State,Zip:	LOS GATOS, CA 95030
EPA ID:	CAD982373136
Contact Name:	ENVIRONMENTAL MANAGER
Contact Address:	15310 LOS GATOS BLVD
Contact City,State,Zip:	LOS GATOS, CA 95030
Contact Telephone:	408-356-3080
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Ca
State District:	2
Mailing Address:	LOS GATOS BLVD
Mailing City,State,Zip:	LOS GATOS, CA 95030
Owner Name:	Bae, Hyung
Owner Type:	Private
Operator Name:	Not Required
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No

ORCHID CLEANERS (Continued) **1000241375**

Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20000915
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: NOT REQUIRED	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: BAE, HYUNG	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported

ORCHID CLEANERS (Continued) **1000241375**

Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19880426
Handler Name: ORCHID CLEANERS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Ca
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

CPS-SLIC:
Name: ORCHID CLEANERS
Address: 15310 LOS GATOS BOULEVARD
City,State,Zip: LOS GATOS, CA 95032
Region: STATE
Facility Status: Open - Remediation
Status Date: 01/30/2017
Global Id: T10000006700
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.2468112967968
Longitude: -121.956419447746
Case Type: Cleanup Program Site
Case Worker: MG
Local Agency: Not reported
RB Case Number: 43S1180
File Location: All Files are on GeoTracker or in the Local Agency Database
Potential Media Affected: Other Groundwater (uses other than drinking water), Soil, Soil Vapor, Under Investigation
Potential Contaminants of Concern: Tetrachloroethylene (PCE), Trichloroethylene (TCE)
EPA Region: 9
Coordinate Source: Google Map Move
Cuf Case: NO
Quantity Released Gallons: Not reported

ORCHID CLEANERS (Continued) **1000241375**

Begin Date:	02/21/2008
Leak Reported Date:	Not reported
How Discovered:	Not reported
How Discovered Description:	Not reported
Discharge Source:	Not reported
Discharge Cause:	Not reported
Stop Method:	Not reported
Stop Description:	Not reported
No Further Action Date:	Not reported
CA Water Watershed Name:	Santa Clara - Guadalupe River (205.40)
Dwr Groundwater Subbasin Name:	Santa Clara Valley - Santa Clara (2-009.02)
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	1-5% (lowest scores)
CA Enviroscreen 4 Score:	10-15%
Military DOD Site:	No
Facility Project Subtype:	Not reported
RWQCB Region:	SAN FRANCISCO BAY RWQCB (REGION 2)
Site History:	This is a dry cleaner where a release of tetrachloroethane (PCE) appears to have occurred. The property owner is preparing a sub slab ventilation plan to mitigate PCE in soil vapor.

Click here to access the California GeoTracker records for this facility:

BROWNFIELDS:

Name:	ORCHID CLEANERS
Address:	15310 LOS GATOS BOULEVARD
City,State,Zip:	LOS GATOS, CA 95032
Global ID:	T10000006700
Latitude:	37.246811297
Longitude:	-121.95641945
Project Type:	Cleanup Program Site
Status:	Open - Remediation
Status Date:	01/30/2017
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Last Correspondence Date:	06/26/2023
Release Type:	Clarifier / Dry Cleaning Unit / Vapor Degreaser
Contaminant(s) of Concern:	Tetrachloroethylene (PCE), Trichloroethylene (TCE)
Media of Concern:	Other Groundwater (uses other than drinking water), Soil, Soil Vapor, Under Investigation
Past Use(s) that Caused Contamination:	DRY CLEANING
Human Health Exposure Controlled:	INSUFFICIENT DATA
Human Health Exposure Controlled Date:	03/12/2015
Groundwater Migration Controlled:	UNDETERMINED
Groundwater Migration Controlled Date:	03/12/2015
Primary Caseworker Name:	MADELEINE GAW
Primary Caseworker Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Primary Caseworker Phone Number:	510-622-2362
Primary Caseworker Address:	1515 CLAY ST
Primary Caseworker Address:	OAKLAND
Primary Caseworker Address:	CA
Primary Caseworker Email:	madeleine.gaw@waterboards.ca.gov

CERS HAZ WASTE:

Name:	ORCHID CLEANERS
Address:	15310 LOS GATOS BL
City,State,Zip:	LOS GATOS, CA 95032

ORCHID CLEANERS (Continued) **1000241375**

Site ID: 140283
CERS ID: 10346239
CERS Description: Hazardous Waste Generator

CUPA SANTA CLARA:
Name: ORCHID CLEANERS
Address: 15310 LOS GATOS BL
City,State,Zip: LOS GATOS, CA 95032
Region: SANTA CLARA
Telephone: 4083563080
UDF Email: Not reported
PE#: 2202
Program Description: GENERATES <100 KG/YR OR USED OIL ONLY
Program Identifier: DEH PERMIT-HAZ WASTE GENERATOR PROGRAM
Latitude: 37.246712
Longitude: -121.957176
Record ID: PR0317822
Facility ID: FA0201919

DRYCLEANERS:
Name: ORCHID CLEANERS
Address: 15310 LOS GATOS BLVD
City,State,Zip: LOS GATOS, CA 95032
EPA Id: CAL000412589
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7211
SIC Description: Power Laundries, Family and Commercial
Create Date: 11/23/2015
Facility Active: Yes
Inactive Date: Not reported
Facility Addr2: Not reported
Owner Name: KYOO N BAE
Owner Address: 15310 LOS GATOS BLVD
Owner Address 2: Not reported
Owner Telephone: 4082043141
Contact Name: KYOO BAE
Contact Address: 15310 LOS GATOS BLVD
Contact Address 2: Not reported
Contact Telephone: 4083563080
Contact Fax: Not reported
Mailing Name: Not reported
Mailing Address 1: 15310 LOS GATOS BLVD
Mailing Address 2: Not reported
Mailing City: LOS GATOS
Mailing State: CA
Mailing Zip: 95032
Owner Fax: Not reported
Region Code: 2
Latitude: 0
Longitude: 0

DRYCLEAN BAY AREA:
Facility ID: 4913
Name: ORCHID CLEANERS
Address: 15310 LOS GATOS BLVD

ORCHID CLEANERS (Continued) **1000241375**

City,State,Zip:	LOS GATOS, CA 95032-2512
NAICS Code:	812320
Facility Status:	Registered
Device Name:	Firbimatic 40lb Rynex Closed Loop Machine[FRB40Y]
Drum Capacity:	40
Device Status:	Registered
Facility Permit Expiration Date:	2019-04-01 00:00:00
Name:	Glycol Ether - Rynex
Annual Usage:	50

EMI:

Name:	ORCHID CLEANERS
Address:	15310 LOS GATOS BLVD
City,State,Zip:	LOS GATOS, CA 950300000
Year:	1990
County Code:	43
Air Basin:	SF
Facility ID:	4913
Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	ORCHID CLEANERS
Address:	15310 LOS GATOS BLVD
City,State,Zip:	LOS GATOS, CA 950300000
Year:	1996
County Code:	43
Air Basin:	SF
Facility ID:	4913
Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	ORCHID CLEANERS
Address:	15310 LOS GATOS BLVD
City,State,Zip:	LOS GATOS, CA 950300000
Year:	1997
County Code:	43
Air Basin:	SF

ORCHID CLEANERS (Continued) **1000241375**

Facility ID:	4913
Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	ORCHID CLEANERS
Address:	15310 LOS GATOS BLVD
City,State,Zip:	LOS GATOS, CA 950300000
Year:	1998
County Code:	43
Air Basin:	SF
Facility ID:	4913
Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	ORCHID CLEANERS
Address:	15310 LOS GATOS BLVD
City,State,Zip:	LOS GATOS, CA 950300000
Year:	2001
County Code:	43
Air Basin:	SF
Facility ID:	4913
Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	ORCHID CLEANERS
Address:	15310 LOS GATOS BLVD
City,State,Zip:	LOS GATOS, CA 950300000

ORCHID CLEANERS (Continued) **1000241375**

Year:	2002
County Code:	43
Air Basin:	SF
Facility ID:	4913
Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	ORCHID CLEANERS
Address:	15310 LOS GATOS BLVD
City,State,Zip:	LOS GATOS, CA 950300000
Year:	2003
County Code:	43
Air Basin:	SF
Facility ID:	4913
Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	ORCHID CLEANERS
Address:	15310 LOS GATOS BLVD
City,State,Zip:	LOS GATOS, CA 950300000
Year:	2004
County Code:	43
Air Basin:	SF
Facility ID:	4913
Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.197
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

ORCHID CLEANERS (Continued) **1000241375**

Name:	ORCHID CLEANERS
Address:	15310 LOS GATOS BLVD
City,State,Zip:	LOS GATOS, CA 950300000
Year:	2005
County Code:	43
Air Basin:	SF
Facility ID:	4913
Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	ORCHID CLEANERS
Address:	15310 LOS GATOS BLVD
City,State,Zip:	LOS GATOS, CA 950300000
Year:	2006
County Code:	43
Air Basin:	SF
Facility ID:	4913
Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.229
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	ORCHID CLEANERS
Address:	15310 LOS GATOS BLVD
City,State,Zip:	LOS GATOS, CA 950300000
Year:	2007
County Code:	43
Air Basin:	SF
Facility ID:	4913
Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.229
Reactive Organic Gases Tons/Yr:	.1599794
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0

ORCHID CLEANERS (Continued) **1000241375**

Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: ORCHID CLEANERS
Address: 15310 LOS GATOS BLVD
City,State,Zip: LOS GATOS, CA 95030
Year: 2008
County Code: 43
Air Basin: SF
Facility ID: 4913
Air District Name: BA
SIC Code: 7216
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: .573
Reactive Organic Gases Tons/Yr: .1376
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: ORCHID CLEANERS
Address: 15310 LOS GATOS BLVD
City,State,Zip: LOS GATOS, CA 95030
Year: 2009
County Code: 43
Air Basin: SF
Facility ID: 4913
Air District Name: BA
SIC Code: 7216
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.22900000000000001
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: ORCHID CLEANERS
Address: 15310 LOS GATOS BLVD
City,State,Zip: LOS GATOS, CA 95030
Year: 2010
County Code: 43
Air Basin: SF
Facility ID: 4913
Air District Name: BA
SIC Code: 7216
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.59899999999999998
Reactive Organic Gases Tons/Yr: 0.30797940000000001

ORCHID CLEANERS (Continued) **1000241375**

Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

HWTS:

Name:	ORCHID CLEANERS
Address:	15310 LOS GATOS BLVD
Address 2:	Not reported
City,State,Zip:	LOS GATOS, CA 95032
EPA ID:	CAD982373136
Inactive Date:	06/30/2004
Create Date:	06/17/1988
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	15310 LOS GATOS BLVD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LOS GATOS, CA 950322512
Owner Name:	HYUNG BAE
Owner Address:	Not reported
Owner Address 2:	Not reported
Owner City,State,Zip:	Not reported
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	HYUNG S BAE
Contact Address:	INACTIVE PER VQ98 - BMI
Contact Address 2:	Not reported
City,State,Zip:	Not reported
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	FEDERAL
Latitude:	37.246864
Longitude:	-121.957126

HAZNET:

Name:	ORCHID CLEANERS
Address:	15310 LOS GATOS BLVD
Address 2:	Not reported
City,State,Zip:	LOS GATOS, CA 950322512
Contact:	HYUNG S BAE
Telephone:	4083563080
Mailing Name:	Not reported
Mailing Address:	15310 LOS GATOS BLVD
Year:	2005
Gepaid:	CAD982373136
TSD EPA ID:	CA0000084517
CA Waste Code:	741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	H01 - Transfer Station
Tons:	0.2925
Year:	2004
Gepaid:	CAD982373136

ORCHID CLEANERS (Continued) **1000241375**

TSD EPA ID: CA0000084517
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H01 - Transfer Station
Tons: 0.4965

Year: 2003
Gepaid: CAD982373136
TSD EPA ID: CA0000084517
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H01 - Transfer Station
Tons: 0.365

Year: 2002
Gepaid: CAD982373136
TSD EPA ID: CA0000084517
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H01 - Transfer Station
Tons: 0.4125

Year: 2001
Gepaid: CAD982373136
TSD EPA ID: CA0000084517
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H01 - Transfer Station
Tons: 0.285

Additional Info:
Year: 2005
Gen EPA ID: CAD982373136

Shipment Date: 20050920
Creation Date: 4/13/2006 18:48:46
Receipt Date: 20050927
Manifest ID: 23678936
Trans EPA ID: TXR000050930
Trans Name: SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CA0000084517
Trans Name: SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID: CA0000084517
TSDF Alt Name: Not reported
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: H01 - Transfer Station
Quantity Tons: 0.195
Waste Quantity: 390
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20050602
Creation Date: 8/17/2005 18:33:44

ORCHID CLEANERS (Continued) **1000241375**

Receipt Date:	20050609
Manifest ID:	24493474
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2004
Gen EPA ID:	CAD982373136
Shipment Date:	20041221
Creation Date:	3/13/2007 18:30:13
Receipt Date:	20041229
Manifest ID:	23652485
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040826
Creation Date:	12/28/2004 14:46:39
Receipt Date:	20040831
Manifest ID:	23712082
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported

ORCHID CLEANERS (Continued) **1000241375**

Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.09
Waste Quantity:	180
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20040826
Creation Date:	12/28/2004 14:46:39
Receipt Date:	20040831
Manifest ID:	23712082
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20040506
Creation Date:	10/15/2004 8:41:08
Receipt Date:	20040511
Manifest ID:	23477937
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.054

ORCHID CLEANERS (Continued) **1000241375**

Waste Quantity:	108
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040112
Creation Date:	8/19/2004 11:23:00
Receipt Date:	20040115
Manifest ID:	22572932
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040112
Creation Date:	8/19/2004 11:23:00
Receipt Date:	20040115
Manifest ID:	22572932
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.06
Waste Quantity:	120
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

ORCHID CLEANERS (Continued) **1000241375**

Additional Info:

Year:	2003
Gen EPA ID:	CAD982373136
Shipment Date:	20030917
Creation Date:	7/13/2004 10:48:19
Receipt Date:	20030923
Manifest ID:	22517711
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20030701
Creation Date:	7/28/2004 10:45:53
Receipt Date:	20030703
Manifest ID:	22320204
Trans EPA ID:	TXR000050930
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.12
Waste Quantity:	240
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20030604
Creation Date:	7/20/2004 10:01:52
Receipt Date:	20030606
Manifest ID:	22675814
Trans EPA ID:	TXR000050930

ORCHID CLEANERS (Continued) **1000241375**

Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20030408
Creation Date:	1/5/2007 18:30:44
Receipt Date:	20030411
Manifest ID:	22440257
Trans EPA ID:	TXR000050930
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2002
Gen EPA ID:	CAD982373136

Shipment Date:	20021217
Creation Date:	3/31/2003 18:31:15
Receipt Date:	20021220
Manifest ID:	22198146
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported

ORCHID CLEANERS (Continued) **1000241375**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.06
Waste Quantity:	120
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20021022
Creation Date:	2/21/2003 10:41:38
Receipt Date:	20021025
Manifest ID:	21937508
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020826
Creation Date:	1/27/2003 18:31:12
Receipt Date:	20020830
Manifest ID:	21901702
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported

ORCHID CLEANERS (Continued) **1000241375**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020506
Creation Date:	7/17/2002 18:34:52
Receipt Date:	20020509
Manifest ID:	21591092
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.06
Waste Quantity:	120
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020506
Creation Date:	7/17/2002 18:34:52
Receipt Date:	20020509
Manifest ID:	21591092
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2001
Gen EPA ID:	CAD982373136

ORCHID CLEANERS (Continued) **1000241375**

Shipment Date:	20010928
Creation Date:	12/17/2001 0:00:00
Receipt Date:	20011002
Manifest ID:	21019967
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.195
Waste Quantity:	390
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20010920
Creation Date:	12/17/2001 0:00:00
Receipt Date:	20010926
Manifest ID:	21019780
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.09
Waste Quantity:	180
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CERS:

Name:	ORCHID CLEANERS
Address:	15310 LOS GATOS BL
City,State,Zip:	LOS GATOS, CA 95032
Site ID:	140283
CERS ID:	10346239
CERS Description:	Chemical Storage Facilities

Violations:

ORCHID CLEANERS (Continued) **1000241375**

Site ID: 140283
Site Name: ORCHID CLEANERS
Violation Date: 10-26-2015
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain and/or maintain an Active EPA ID.
Violation Notes: Returned to compliance on 11/23/2015.

EPA ID #CAD982373136 has been inactive since 6/3/2004. Per 25205.16(c) of the Health and Safety Code, EPA ID numbers must be actively maintained. Facility was sited for an inactive EPA ID Number on 8/11/2006 by Inspector Rich Owens. When the facility was re-inspected by Lindsay Morgado on 11/21/2008, Mrs. Morgado sited the facility for not providing a written response of corrections made to Mr. Owen's Notice of Inspection. After Mrs. Morgado's '08 Inspection, the facility provided a written response to Mr. Owen's Notice of Inspection documenting that they re-activated the EPA ID Number, but the re-activation did not occur. Facility only generates non-RCRA hazardous waste and qualifies for a California EPA ID#. A form to obtain a California EPA ID# will be provided during the inspection.

Violation Division: Santa Clara County Environmental Health
Violation Program: HW
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-27-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Occupany ID: 2423
Eval Division: Santa Clara County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-21-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Occupancy ID: 2423
Eval Division: Santa Clara County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-26-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Occupancy ID: 2423
Eval Division: Santa Clara County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-26-2015
Violations Found: Yes
Eval Type: Routine done by local agency

ORCHID CLEANERS (Continued) **1000241375**

Eval Notes: Onsite to conduct a routine hazardous waste inspection with the consent of shop worker, Velasco Santos. Orchid Cleaners is a dry cleaning facility that uses Green Earth, liquid silicone (decamethylcyclopentasiloxane - D5) in a dry-cleaning system, as well as using small amounts of petroleum distillates, ammonia/water mix, and isopropyl alcohol for spot cleaning stains. Sludge from the dry-cleaning machine is removed every month and accumulated in a plastic bag. The bag is sealed and added to the one, 30 gallon drum of "non-RCRA waste, solid: Petroleum Distillates and Green Earth sludge". The facility does not evaporate or solidify sludge upon its removal from the dry-cleaning system or prior to hazardous waste accumulation. Filters from the dry cleaning machine are replaced approximately every 2 years. One waste filter (<27 gallons) was observed onsite in a fully labeled, 30 gallon drum with an accumulation date of 12/24/2013. 2 x 30 gallon drums are located behind in a [Truncated]
Eval Division: Santa Clara County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-16-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Occupancy ID: 2423
Eval Division: Santa Clara County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-14-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Occupancy ID: 2423
Eval Division: Santa Clara County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-28-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Occupancy ID: 2423
Eval Division: Santa Clara County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-03-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Occupancy ID: 2423
Eval Division: Santa Clara County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 140283

ORCHID CLEANERS (Continued) **1000241375**

Site Name: ORCHID CLEANERS
Site Address: 15310 LOS GATOS BL
Site City: LOS GATOS
Site Zip: 95032
Enf Action Date: 10-26-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Clara County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS,

Affiliation:
Affiliation Type Desc: Identification Signer
Entity Name: KYOO BAE
Entity Title: OWNER
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 15310 LOS GATOS BL
Affiliation City: LOS GATOS
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95032
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: KYOO BAE
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (408) 204-3141,

Affiliation Type Desc: CUPA District
Entity Name: Santa Clara County Environmental Health
Entity Title: Not reported
Affiliation Address: 1555 Berger Drive, Suite 300
Affiliation City: San Jose
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95112-2716
Affiliation Phone: (408) 918-3400,

Affiliation Type Desc: Environmental Contact
Entity Name: KYOO BAE
Entity Title: Not reported
Affiliation Address: 15310 LOS GATOS BL

ORCHID CLEANERS (Continued) **1000241375**

Affiliation City: LOS GATOS
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95032
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: BAE, HYUNG S
Entity Title: Not reported
Affiliation Address: 15310 LOS GATOS BL
Affiliation City: LOS GATOS
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95032
Affiliation Phone: (408) 356-3080,

Affiliation Type Desc: Parent Corporation
Entity Name: ORCHID CLEANERS
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Name: ORCHID CLEANERS
Address: 15310 LOS GATOS BLVD
City,State,Zip: LOS GATOS, CA 95032-2512
Site ID: 484652
CERS ID: 110001172481
CERS Description: US EPA Air Emission Inventory System (EIS)

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: ENVIR MGMT
Entity Title: Not reported
Affiliation Address: 15310 LOS GATOS BLVD
Affiliation City: LOSGATOS
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Regional Board Caseworker
Entity Name: RON GOLOUBOW SAN FRANCISCO BAY RWQCB REGN 2ND
Entity Title: Not reported
Affiliation Address: 1515 CLAY STREET SUITE 1400
Affiliation City: OAKLAND
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Name: ORCHID CLEANERS
Address: 15310 LOS GATOS BOULEVARD

ORCHID CLEANERS (Continued) **1000241375**

City,State,Zip: LOS GATOS, CA 95032
Site ID: 749921
CERS ID: T10000006700
CERS Description: Cleanup Program Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: MADELEINE GAW - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 Clay St
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 5106222362,

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63 **SILICON GENESIS CORP.** **ENVIROSTOR** **S111842253**
North **590 DIVISION STREET** **N/A**
1/4-1/2 **CAMPBELL, CA 95008**
0.495 mi.
2616 ft.

Relative: **Lower**

Actual: **257 ft.**

ENVIROSTOR:
Name: SILICON GENESIS CORP.
Address: 590 DIVISION STREET
City,State,Zip: CAMPBELL, CA 95008
Facility ID: 71003650
Status: Inactive - Needs Evaluation
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Berkeley
Assembly: 23
Senate: 13
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.26263
Longitude: -121.9606
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD982416430
Alias Type: EPA Identification Number
Alias Name: 71003650
Alias Type: Envirostor ID Number

SILICON GENESIS CORP. (Continued) **S111842253**

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

N64 **LOS GATOS 76** **LUST** **S100179599**
SSE **15380 LOS GATOS BL** **HIST LUST** **N/A**
1/4-1/2 **LOS GATOS, CA 95032** **SWEEPS UST**
0.500 mi. **HIST UST**
2638 ft. **Site 2 of 3 in cluster N** **Cortese**
CUPA Listings
Relative: **HIST CORTESE**
Higher **HWTS**
Actual: **HAZNET**
326 ft. **Notify 65**
CERS

LUST:
Name: UNOCAL SERVICE STATION #4563
Address: 15380 LOS GATOS BLVD
City,State,Zip: LOS GATOS, CA 95030
Lead Agency: SANTA CLARA COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608501498
Global Id: T0608501498
Latitude: 37.244726
Longitude: -121.957368
Status: Completed - Case Closed
Status Date: 05/06/1992
Case Worker: DEH
RB Case Number: Not reported
Local Agency: SANTA CLARA COUNTY LOP
File Location: Stored on Microfiche
Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
EPA Region: 9
Coordinate Source: * Digitized From APN (Acessor Parcel Maps)
Cuf Case: YES
Quantity Released Gallons: Not reported
Begin Date: 01/08/1991
Leak Reported Date: 03/18/1991
How Discovered: Not reported
How Discovered Description: Not reported
Discharge Source: Not reported

LOS GATOS 76 (Continued) **S100179599**

Discharge Cause:	Not reported
Stop Method:	Not reported
Stop Description:	Not reported
No Further Action Date:	05/06/1992
CA Water Watershed Name:	Santa Clara - Guadalupe River (205.40)
Dwr Groundwater Subbasin Name:	Santa Clara Valley - Santa Clara (2-009.02)
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	6-10%
CA Enviroscreen 4 Score:	10-15%
Military DOD Site:	No
Facility Project Subtype:	Not reported
RWQCB Region:	SAN FRANCISCO BAY RWQCB (REGION 2)
Site History:	Not reported

LUST:

Global Id:	T0608501498
Contact Type:	Local Agency Caseworker - Primary Caseworker
Contact Name:	DEH CASEWORKER
Organization Name:	SANTA CLARA COUNTY LOP
Address:	1555 Berger Drive, Suite 300
City:	SAN JOSE
Email:	smp@deh.sccgov.org
Phone Number:	4089183400

Global Id:	T0608501498
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0608501498
Action Type:	ENFORCEMENT
Date:	05/06/1992
Action:	Closure/No Further Action Letter

Global Id:	T0608501498
Action Type:	RESPONSE
Date:	04/25/1991
Action:	Other Report / Document

Global Id:	T0608501498
Action Type:	ENFORCEMENT
Date:	03/30/1992
Action:	Notice of Responsibility - #39328

Global Id:	T0608501498
Action Type:	REMEDIATION
Date:	01/08/1991
Action:	Excavation

Global Id:	T0608501498
Action Type:	Other
Date:	03/18/1991

LOS GATOS 76 (Continued) **S100179599**

Action: Leak Reported

LUST:
Global Id: T0608501498
Status: Open - Case Begin Date
Status Date: 01/08/1991

Global Id: T0608501498
Status: Open - Site Assessment
Status Date: 01/08/1991

Global Id: T0608501498
Status: Completed - Case Closed
Status Date: 05/06/1992

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 08S1W10P03f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 1/8/1991
Pollution Characterization Began: 1/8/1991
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HIST LUST SC:
Name: Unocal Service Station #4563
Address: 15380 Los Gatos Blvd
City: Los Gatos
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 08S1W10P03
Oversite Agency: SCVWD
Date Listed: 1992-02-27 00:00:00
Closed Date: 1992-05-06 00:00:00

SWEEPS UST:
Name: JOHN FREY'S UNION 76
Address: 15380 LOS GATOS BLVD
City: LOS GATOS
Status: Active
Comp Number: 6050
Number: 2
Board Of Equalization: Not reported
Referral Date: 02-03-92
Action Date: 02-03-92
Created Date: 02-03-92

LOS GATOS 76 (Continued) **S100179599**

Owner Tank Id: 4563-RU-1
SWRCB Tank Id: 43-000-006050-000001
Tank Status: A
Capacity: 12000
Active Date: 02-03-92
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 3

Name: JOHN FREY'S UNION 76
Address: 15380 LOS GATOS BLVD
City: LOS GATOS
Status: Active
Comp Number: 6050
Number: 2
Board Of Equalization: Not reported
Referral Date: 02-03-92
Action Date: 02-03-92
Created Date: 02-03-92
Owner Tank Id: 4563-SU-1
SWRCB Tank Id: 43-000-006050-000002
Tank Status: A
Capacity: 12000
Active Date: 02-03-92
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: JOHN FREY'S UNION 76
Address: 15380 LOS GATOS BLVD
City: LOS GATOS
Status: Active
Comp Number: 6050
Number: 2
Board Of Equalization: Not reported
Referral Date: 02-03-92
Action Date: 02-03-92
Created Date: 02-03-92
Owner Tank Id: 4563-WO-1
SWRCB Tank Id: 43-000-006050-000003
Tank Status: A
Capacity: 550
Active Date: 02-03-92
Tank Use: OIL
STG: W
Content: WASTE OIL
Number Of Tanks: Not reported

Name: JOHN FREY'S UNION SERVICE
Address: 15380 LOS GATOS BLVD
City: LOS GATOS
Status: Active
Comp Number: 6050
Number: 2
Board Of Equalization: 44-000051

LOS GATOS 76 (Continued) **S100179599**

Referral Date: 12-02-92
Action Date: 05-21-93
Created Date: 02-29-88
Owner Tank Id: 4563-RU-1
SWRCB Tank Id: 43-003-006050-000001
Tank Status: A
Capacity: 12000
Active Date: 12-02-92
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 3

Name: JOHN FREY'S UNION SERVICE
Address: 15380 LOS GATOS BLVD
City: LOS GATOS
Status: Active
Comp Number: 6050
Number: 2
Board Of Equalization: 44-000051
Referral Date: 12-02-92
Action Date: 05-21-93
Created Date: 02-29-88
Owner Tank Id: 4563-SU-1
SWRCB Tank Id: 43-003-006050-000002
Tank Status: A
Capacity: 12000
Active Date: 12-02-92
Tank Use: M.V. FUEL
STG: P
Content: PRM UNLEADED
Number Of Tanks: Not reported

Name: JOHN FREY'S UNION SERVICE
Address: 15380 LOS GATOS BLVD
City: LOS GATOS
Status: Active
Comp Number: 6050
Number: 2
Board Of Equalization: 44-000051
Referral Date: 12-02-92
Action Date: 05-21-93
Created Date: 02-29-88
Owner Tank Id: 4563-WO-1
SWRCB Tank Id: 43-003-006050-000003
Tank Status: A
Capacity: 550
Active Date: 12-02-92
Tank Use: OIL
STG: W
Content: WASTE OIL
Number Of Tanks: Not reported

HIST UST:
Name: UNION OIL SS 4563
Address: 15380 LOS GATOS BOULEVARD
City,State,Zip: LOS GATOS, CA 95030

LOS GATOS 76 (Continued) **S100179599**

File Number:	00020a49
URL:	https://documents.geotracker.waterboards.ca.gov/ustpdfs/pdf/00020a49.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

CORTESE:

Name:	UNOCAL SERVICE STATION #4563
Address:	15380 LOS GATOS BLVD
City,State,Zip:	LOS GATOS, CA 95030
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0608501498
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

CUPA SANTA CLARA:

Name:	LOS GATOS 76
Address:	15380 LOS GATOS BL
City,State,Zip:	LOS GATOS, CA 95032
Region:	SANTA CLARA
Telephone:	4083562046

LOS GATOS 76 (Continued) **S100179599**

UDF Email: Not reported
PE#: 2205
Program Description: GENERATES 100 KG YR TO <5 TONS/YR
Program Identifier: DEH PERMIT-HAZ WASTE GENERATOR PROGRAM
Latitude: 37.22496
Longitude: -121.969819
Record ID: PR0312926
Facility ID: FA0201922

Name: LOS GATOS 76
Address: 15380 LOS GATOS BL
City,State,Zip: LOS GATOS, CA 95032
Region: SANTA CLARA
Telephone: 4083562046
UDF Email: Not reported
PE#: 2202
Program Description: GENERATES <100 KG/YR OR USED OIL ONLY
Program Identifier: DEH PERMIT-HAZ WASTE GENERATOR PROGRAM
Latitude: 37.22496
Longitude: -121.969819
Record ID: PR0383785
Facility ID: FA0201922

HIST CORTESE:
edr_fname: UNOCAL
edr_fadd1: 15380 LOS GATOS
City,State,Zip: LOS GATOS, CA
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-1536

HWTS:
Name: LOS GATOS MOBIL
Address: 15380 LOS GATOS BLVD
Address 2: Not reported
City,State,Zip: LOS GATOS, CA 95032
EPA ID: CAL000330802
Inactive Date: Not reported
Create Date: 03/18/2008
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 647 N SANTA CRUZ AVE STE B
Mailing Address 2: Not reported
Mailing City,State,Zip: LOS GATOS, CA 95030
Owner Name: MISSION PETROLEUM INC
Owner Address: 647 N SANTA CRUZ AVE STE B
Owner Address 2: Not reported
Owner City,State,Zip: LOS GATOS, CA 950304351
Owner Phone: Not reported
Owner Fax: Not reported
Contact Name: MIKE AMIDI
Contact Address: 647 N SANTA CRUZ AVE STE B
Contact Address 2: Not reported
City,State,Zip: LOS GATOS, CA 95030
Contact Phone: Not reported

LOS GATOS 76 (Continued) **S100179599**

Contact Fax: Not reported
Facility Status: Active
Facility Type: PERMANENT
Category: STATE
Latitude: 37.246294
Longitude: -121.957564

NAICS:
EPA ID: CAL000330802
Create Date: 2008-03-18 16:04:53.577
NAICS Code: 44719
NAICS Description: Other Gasoline Stations
Issued EPA ID Date: 2008-03-18 16:04:53.17000
Inactive Date: Not reported
Facility Name: LOS GATOS MOBIL
Facility Address: 15380 LOS GATOS BLVD
Facility Address 2: Not reported
Facility City: LOS GATOS
Facility County: Not reported
Facility State: CA
Facility Zip: 950322512

HAZNET:
Name: LOS GATOS 76
Address: 15380 LOS GATOS BLVD
Address 2: Not reported
City,State,Zip: LOS GATOS, CA 950322512
Contact: MIKE AMIDI
Telephone: 4088368982
Mailing Name: Not reported
Mailing Address: 647 N SANTA CRUZ AVE STE B

Year: 2016
Gepaid: CAL000330802
TSD EPA ID: CAT080013352
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.187

NOTIFY 65:
Name: UNOCAL SERVICE STATION #4563
Address: 15380 LOS GATOS BLVD.
City,State,Zip: LOS GATOS, CA 93063
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported
Global ID: Not reported
Status: Not reported

LOS GATOS 76 (Continued) **S100179599**

CERS:
- Name: UNOCAL SERVICE STATION #4563
- Address: 15380 LOS GATOS BLVD
- City,State,Zip: LOS GATOS, CA 95030
- Site ID: 770759
- CERS ID: T0608501498
- CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
- Affiliation Type Desc: Local Agency Caseworker
- Entity Name: DEH CASEWORKER - SANTA CLARA COUNTY LOP
- Entity Title: Not reported
- Affiliation Address: 1555 Berger Drive, Suite 300
- Affiliation City: SAN JOSE
- Affiliation State: CA
- Affiliation Country: Not reported
- Affiliation Zip: Not reported
- Affiliation Phone: 4089183400,

- Affiliation Type Desc: Regional Board Caseworker
- Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
- Entity Title: Not reported
- Affiliation Address: 1515 CLAY ST SUITE 1400
- Affiliation City: OAKLAND
- Affiliation State: CA
- Affiliation Country: Not reported
- Affiliation Zip: Not reported
- Affiliation Phone: ,

N65 **UNOCAL SERVICE STATION #4563** **UST FINDER RELEASE** **1029124439**
SSE **15380 LOS GATOS BLVD** **N/A**
1/4-1/2 **LOS GATOS, CA 95030**
0.500 mi.
2638 ft. **Site 3 of 3 in cluster N**

Relative:
Higher

Actual:
326 ft.

UST FINDER RELEASE:
- Object ID: 45621
- Facility ID: Not reported
- Lust ID: CAT0608501498
- Name: UNOCAL SERVICE STATION #4563
- Address: 15380 LOS GATOS BLVD
- City,State,Zip: LOS GATOS, CA 95030
- Address Match Type: PointAddress
- Reported Date: Not reported
- Status: No Further Action
- Substance: Not reported
- Population within 1500ft: 1147
- Domestic Wells within 1500ft: 0
- Land Use: Developed, Medium Intensity
- Within SPA: No
- SPA PWS Facility ID: Not reported
- SPA Water Type: Not reported
- SPA Facility Type: Not reported
- SPA HUC12: Not reported
- Within WHPA: Yes
- WHPA PWS Facility ID: CA4310011_54873
- WHPA Water Type: GW - Ground water

UNOCAL SERVICE STATION #4563 (Continued) **1029124439**

WHPA Facility Type:	WL - Well
WHPA HUC12:	180500030303
Within 100yr Floodplain:	No
Tribe:	Not reported
EPA Region:	9
NFA Letter 1:	Not reported
NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	Geocode
X Coord:	-121.95742
Y Coord:	37.2464800000001
Latitude:	37.2464799999999
Longitude:	-121.957419999999

66
NNE
1/2-1
0.577 mi.
3044 ft.

Relative:
Lower

Actual:
248 ft.

ASHLAND CHEMICAL CO
1600 DELL AVE.
CAMPBELL, CA 95008

RCRA-SQG **1000181795**
ENVIROSTOR **CAD982486870**
CHMIRS
ICIS
FINDS
ECHO
EMI
HWTS

RCRA Listings:

Date Form Received by Agency:	19960620
Handler Name:	Ashland Chemical Company
Handler Address:	1600 Dell Ave
Handler City,State,Zip:	CAMPBELL, CA 95008
EPA ID:	CAD982486870
Contact Name:	DON GEBHARDT
Contact Address:	PO BOX 2219
Contact City,State,Zip:	COLUMBUS, OH 43216-2219
Contact Telephone:	614-790-3333
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Ca
State District:	2
Mailing Address:	1600 DELL AVE
Mailing City,State,Zip:	CAMPBELL, CA 95008
Owner Name:	Ashland Chemical Company
Owner Type:	Private
Operator Name:	Not Required
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No

ASHLAND CHEMICAL CO (Continued) **1000181795**

Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: ASHLAND CHEMICAL COMPANY	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 2219
Owner/Operator City,State,Zip:	COLUMBUS, OH 43216-2219
Owner/Operator Telephone:	614-790-3333
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: NOT REQUIRED	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999

ASHLAND CHEMICAL CO (Continued) **1000181795**

Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19960620
Handler Name: ASHLAND CHEMICAL COMPANY
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Ca
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 32511
NAICS Description: PETROCHEMICAL MANUFACTURING

Has the Facility Received Notices of Violations:
Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Generators - General
Date Violation was Determined: 20010614
Actual Return to Compliance Date: 20010813
Return to Compliance Qualifier: Observed
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 20010716
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: RHOLL
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported

ASHLAND CHEMICAL CO (Continued) **1000181795**

Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Generators - General
Date Violation was Determined: 20010614
Actual Return to Compliance Date: 20010813
Return to Compliance Qualifier: Observed
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20010705
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: RHOLL
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 20010614
Evaluation Responsible Agency: EPA
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier: RHOLL
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 20010813
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

ASHLAND CHEMICAL CO (Continued) **1000181795**

Evaluation Date:	20010614
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	RHOLL
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20010813
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

ENVIROSTOR:

Name:	ASHLAND CHEMICAL CO., CAMPBELL
Address:	1600 DELL AVENUE
City,State,Zip:	CAMPBELL, CA 95008
Facility ID:	71003078
Status:	Inactive - Needs Evaluation
Status Date:	Not reported
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Not reported
Division Branch:	Cleanup Berkeley
Assembly:	23
Senate:	13
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	37.26304
Longitude:	-121.9571
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAD982486870
Alias Type:	EPA Identification Number
Alias Name:	110000484020
Alias Type:	EPA (FRS #)
Alias Name:	71003078
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

ASHLAND CHEMICAL CO (Continued) **1000181795**

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

CHMIRS:

Name:	Not reported
Address:	1600 DELL AVE
City,State,Zip:	CAMPBELL, CA
OES Incident Number:	7-4513
OES notification:	11/13/1997
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	Storm Drain/Los Gatos Creek
Spill Site:	Not reported
Cleanup By:	Diluted w/water
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1997
Agency:	Santa Clara County Fire
Incident Date:	11/13/199712:00:00 AM
Admin Agency:	Santa Clara County Health Department

ASHLAND CHEMICAL CO (Continued) **1000181795**

Amount:	Not reported
Contained:	Yes
Site Type:	Industrial Plant
E Date:	Not reported
Substance:	Hydrogen Peroxide 30%
Gallons:	25
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Rec'd call for request to make report unclear how this occured. Event #973170031.

ICIS:

Enforcement Action ID:	09-2001-0031
FRS ID:	110000484020
Action Name:	ASHLAND SPECIALTY CHEMICALS
Facility Name:	ASHLAND CHEMICAL COMPANY
Facility Address:	1600 DELL AVE. CAMPBELL, CA 95008
Enforcement Action Type:	TSCA 16 Action For Penalty
Facility County:	SANTA CLARA
Program System Acronym:	ICIS
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	16
Facility SIC Code:	2819
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	37.263472
Longitude in Decimal Degrees:	-121.956899
Permit Type Desc:	Not reported
Program System Acronym:	7633
Facility NAICS Code:	Not reported
Tribal Land Code:	Not reported

Facility Name:	ASHLAND CHEMICAL CO.
Address:	1600 DELL AVE.
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	2819

Facility Name:	ASHLAND CHEMICAL CO.
Address:	1600 DELL AVE.
Tribal Indicator:	N

ASHLAND CHEMICAL CO (Continued) **1000181795**

Fed Facility: No
NAIC Code: Not reported
SIC Code: 2869

Facility Name: ASHLAND CHEMICAL CO.
Address: 1600 DELL AVE.
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2819

Facility Name: ASHLAND CHEMICAL CO.
Address: 1600 DELL AVE.
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2869

Facility Name: ASHLAND CHEMICAL CO.
Address: 1600 DELL AVE.
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2819

Facility Name: ASHLAND CHEMICAL CO.
Address: 1600 DELL AVE.
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2869

Facility Name: ASHLAND CHEMICAL CO.
Address: 1600 DELL AVE.
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2819

Facility Name: ASHLAND CHEMICAL CO.
Address: 1600 DELL AVE.
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2869

Facility Name: ASHLAND CHEMICAL CO.
Address: 1600 DELL AVE.
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2819

Facility Name: ASHLAND CHEMICAL CO.
Address: 1600 DELL AVE.
Tribal Indicator: N
Fed Facility: No

ASHLAND CHEMICAL CO (Continued) **1000181795**

NAIC Code: Not reported
SIC Code: 2869

Facility Name: ASHLAND CHEMICAL CO.
Address: 1600 DELL AVE.
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2819

Facility Name: ASHLAND CHEMICAL CO.
Address: 1600 DELL AVE.
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2869

FINDS:
Registry ID: 110000484020

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Integrated Compliance Information System (ICIS) provides a database that, when complete, will contain integrated enforcement and compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions and a subset of the Permit Compliance System (PCS), which supports the National Pollutant Discharge Elimination System (NPDES). This information is maintained in ICIS by EPA in the Regional offices and it at Headquarters. A future release of ICIS will completely replace PCS and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities that support compliance and enforcement programs, including incident tracking, compliance assistance, and compliance monitoring.
The Toxic Release Inventory System (TRIS) is a publicly available EPA database reported annually by certain covered industry groups, as well as federal facilities. It contains information about more than 650 toxic chemicals that are being used, manufactured, treated, transported, or released into the environment, and includes information about waste management and pollution prevention activities.
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.
California's Hazardous Waste Tracking System Data Mart (HWTS-DATAMART) provides information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ASHLAND CHEMICAL CO (Continued) **1000181795**

ECHO:

Envid:	1000181795
Registry ID:	110000484020
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110000484020
Name:	ASHLAND CHEMICAL CO
Address:	1600 DELL AVE.
City,State,Zip:	CAMPBELL, CA 95008

EMI:

Name:	PACER TECHNOLOGY
Address:	1600 DELL AVENUE
City,State,Zip:	CAMPBELL, CA 950080000
Year:	1987
County Code:	43
Air Basin:	SF
Facility ID:	2606
Air District Name:	BA
SIC Code:	2891
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	ELECTRONIC MATERIALS TECHNOLOG
Address:	1600 DELL AVENUE
City,State,Zip:	CAMPBELL, CA 950080000
Year:	1990
County Code:	43
Air Basin:	SF
Facility ID:	4867
Air District Name:	BA
SIC Code:	2869
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	ELECTRONIC MATERIALS TECHNOLOG
Address:	1600 DELL AVENUE
City,State,Zip:	CAMPBELL, CA 950080000
Year:	1993
County Code:	43
Air Basin:	SF
Facility ID:	4867

ASHLAND CHEMICAL CO (Continued) **1000181795**

Air District Name:	BA
SIC Code:	2869
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	ELECTRONIC MATERIALS TECHNOLOG
Address:	1600 DELL AVENUE
City,State,Zip:	CAMPBELL, CA 950080000
Year:	1995
County Code:	43
Air Basin:	SF
Facility ID:	4867
Air District Name:	BA
SIC Code:	2869
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	ELECTRONIC MATERIALS TECHNOLOG
Address:	1600 DELL AVENUE
City,State,Zip:	CAMPBELL, CA 950080000
Year:	1996
County Code:	43
Air Basin:	SF
Facility ID:	4867
Air District Name:	BA
SIC Code:	2869
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	ASHLAND CHEMICAL
Address:	1600 DELL AVENUE
City,State,Zip:	CAMPBELL, CA 950080000
Year:	1996

ASHLAND CHEMICAL CO (Continued) **1000181795**

County Code:	43
Air Basin:	SF
Facility ID:	10862
Air District Name:	BA
SIC Code:	2869
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	ASHLAND CHEMICAL
Address:	1600 DELL AVENUE
City,State,Zip:	CAMPBELL, CA 950080000
Year:	1997
County Code:	43
Air Basin:	SF
Facility ID:	10862
Air District Name:	BA
SIC Code:	2869
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	ASHLAND CHEMICAL
Address:	1600 DELL AVENUE
City,State,Zip:	CAMPBELL, CA 950080000
Year:	1998
County Code:	43
Air Basin:	SF
Facility ID:	10862
Air District Name:	BA
SIC Code:	2869
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	ASHLAND CHEMICAL

ASHLAND CHEMICAL CO (Continued) **1000181795**

Address:	1600 DELL AVENUE
City,State,Zip:	CAMPBELL, CA 950080000
Year:	1999
County Code:	43
Air Basin:	SF
Facility ID:	10862
Air District Name:	BA
SIC Code:	2869
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	ASHLAND CHEMICAL
Address:	1600 DELL AVENUE
City,State,Zip:	CAMPBELL, CA 950080000
Year:	2000
County Code:	43
Air Basin:	SF
Facility ID:	10862
Air District Name:	BA
SIC Code:	2869
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

HWTS:

Name:	PACER TECHNOLOGY
Address:	1600 DELL AVENUE
Address 2:	Not reported
City,State,Zip:	CAMPBELL, CA 95008
EPA ID:	CAL000022961
Inactive Date:	01/01/1995
Create Date:	05/09/1990
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	1600 DELL AVENUE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	CAMPBELL, CA 950080000
Owner Name:	PERRY BILL
Owner Address:	Not reported
Owner Address 2:	Not reported
Owner City,State,Zip:	Not reported
Owner Phone:	Not reported

ASHLAND CHEMICAL CO (Continued) **1000181795**

Owner Fax:	Not reported
Contact Name:	UNDELIVERABLE 1/95 SURVEY HN
Contact Address:	Not reported
Contact Address 2:	Not reported
City,State,Zip:	Not reported
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	37.265358
Longitude:	-121.955446

67
ENE
1/2-1
0.802 mi.
4236 ft.

EXXON GASOLINE STATION **Notify 65** **S100179527**
3702 SOUTH BASCOM AVENUE **N/A**
SAN JOSE, CA 93212

Relative:
Lower

Actual:
263 ft.

NOTIFY 65:

Name:	EXXON GASOLINE STATION
Address:	3702 SOUTH BASCOM AVENUE
City,State,Zip:	SAN JOSE, CA 93212
Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Issue Date:	Not reported
Incident Description:	Not reported
Global ID:	Not reported
Status:	Not reported

Count: 2 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CAMPBELL	S127035076	ROBSON HOMES MOZART AVE DEVELOPMEN	16179 E MOZART AVE	95008	CPS-SLIC
LOS GATOS	S105512826	TOSCO #3658	300 SARATOGA-LOS GATOS RD	95030	LUST, HIST LUST, Cortese

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 02/29/2024
Date Data Arrived at EDR: 03/01/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 06/03/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 02/29/2024
Date Data Arrived at EDR: 03/01/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 06/03/2024
Next Scheduled EDR Contact: 07/08/2024
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

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 02/29/2024
Date Data Arrived at EDR: 03/01/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 06/03/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

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: 12/20/2023
Date Data Arrived at EDR: 12/20/2023
Date Made Active in Reports: 01/24/2024
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 03/26/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/22/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 23

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/03/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/22/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 23

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/03/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

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: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

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: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 07/01/2024
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: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 07/01/2024
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: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 07/01/2024
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: 02/14/2024
Date Data Arrived at EDR: 02/16/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 48

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/17/2024
Next Scheduled EDR Contact: 08/19/2024
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: 02/13/2024
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/21/2024
Next Scheduled EDR Contact: 09/02/2024
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: 02/13/2024
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/21/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/12/2023
Date Data Arrived at EDR: 12/13/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 77

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

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: 01/22/2024
Date Data Arrived at EDR: 01/23/2024
Date Made Active in Reports: 04/08/2024
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 01/22/2024
Date Data Arrived at EDR: 01/23/2024
Date Made Active in Reports: 04/08/2024
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/05/2024
Date Data Arrived at EDR: 02/06/2024
Date Made Active in Reports: 04/26/2024
Number of Days to Update: 80

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14
Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30
Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/05/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 80
Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Quarterly

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27
Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29
Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/04/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
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: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/05/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 80

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 11/16/2023
Date Data Arrived at EDR: 11/16/2023
Date Made Active in Reports: 02/13/2024
Number of Days to Update: 89

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/05/2024
Date Made Active in Reports: 05/29/2024
Number of Days to Update: 85
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Semi-Annually

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 02/13/2024
Date Data Arrived at EDR: 03/05/2024
Date Made Active in Reports: 06/03/2024
Number of Days to Update: 90
Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/05/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 80
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69
Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 06/06/2024
Next Scheduled EDR Contact: 09/23/2024
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56
Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/17/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/17/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/17/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

Lists of 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: 01/22/2024
Date Data Arrived at EDR: 01/23/2024
Date Made Active in Reports: 04/08/2024
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/18/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Considered Brownfieds Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 03/19/2024
Date Data Arrived at EDR: 03/19/2024
Date Made Active in Reports: 06/10/2024
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/11/2024
Date Data Arrived at EDR: 03/12/2024
Date Made Active in Reports: 05/10/2024
Number of Days to Update: 59

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/11/2024
Next Scheduled EDR Contact: 09/23/2024
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: 04/19/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/05/2024
Date Made Active in Reports: 05/28/2024
Number of Days to Update: 84

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 04/04/2024
Date Data Arrived at EDR: 04/05/2024
Date Made Active in Reports: 04/15/2024
Number of Days to Update: 10

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/22/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/15/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 04/19/2024
Next Scheduled EDR Contact: 08/04/2024
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: 12/31/2023
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/21/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 01/22/2024
Date Data Arrived at EDR: 01/23/2024
Date Made Active in Reports: 04/08/2024
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 09/28/2023
Date Made Active in Reports: 12/18/2023
Number of Days to Update: 81

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 06/06/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

CERS HAZ WASTE: California Environmental Reporting System Hazardous 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: 01/16/2024
Date Data Arrived at EDR: 01/16/2024
Date Made Active in Reports: 04/03/2024
Number of Days to Update: 78
Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 04/16/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27
Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/21/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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: 02/01/2024
Date Data Arrived at EDR: 02/01/2024
Date Made Active in Reports: 04/24/2024
Number of Days to Update: 83
Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 04/25/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 01/16/2024
Date Data Arrived at EDR: 01/16/2024
Date Made Active in Reports: 04/03/2024
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/16/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 02/26/2024
Date Data Arrived at EDR: 02/27/2024
Date Made Active in Reports: 05/15/2024
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/06/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/29/2024
Date Data Arrived at EDR: 03/01/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 06/03/2024
Next Scheduled EDR Contact: 07/08/2024
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: 02/26/2024
Date Data Arrived at EDR: 02/27/2024
Date Made Active in Reports: 05/14/2024
Number of Days to Update: 77

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 05/29/2024
Next Scheduled EDR Contact: 09/09/2024
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: 12/12/2023
Date Data Arrived at EDR: 12/13/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 77

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/20/2024
Next Scheduled EDR Contact: 07/01/2024
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: 12/31/2023
Date Data Arrived at EDR: 01/23/2024
Date Made Active in Reports: 04/09/2024
Number of Days to Update: 77

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/16/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/05/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 80

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/05/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 80

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
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: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 07/01/2024
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: 01/30/2024
Date Data Arrived at EDR: 02/13/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 51

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/14/2024
Next Scheduled EDR Contact: 08/26/2024
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: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/11/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/04/2024
Next Scheduled EDR Contact: 07/15/2024
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: 07/30/2021
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/19/2024
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: 12/11/2023
Date Data Arrived at EDR: 12/13/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/13/2024
Next Scheduled EDR Contact: 07/01/2024
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: 04/29/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: No Update Planned

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73
Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/12/2024
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: 12/31/2020
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 283
Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/14/2024
Next Scheduled EDR Contact: 06/24/2024
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: 12/31/2022
Date Data Arrived at EDR: 11/13/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 86
Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/16/2024
Next Scheduled EDR Contact: 08/26/2024
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: 01/16/2024
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 70
Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/17/2024
Next Scheduled EDR Contact: 07/29/2024
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: 02/29/2024
Date Data Arrived at EDR: 03/01/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 26

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/03/2024
Next Scheduled EDR Contact: 09/09/2024
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: 02/01/2024
Date Data Arrived at EDR: 02/08/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/15/2024
Next Scheduled EDR Contact: 07/29/2024
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: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 06/03/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/20/2023
Date Data Arrived at EDR: 04/04/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 66

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/04/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 03/28/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 01/02/2024
Date Data Arrived at EDR: 01/16/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 57

Source: Nuclear Regulatory Commission
Telephone: 301-415-0717
Last EDR Contact: 04/15/2024
Next Scheduled EDR Contact: 07/29/2024
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: 12/31/2022
Date Data Arrived at EDR: 11/27/2023
Date Made Active in Reports: 02/22/2024
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 05/28/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 05/28/2024
Next Scheduled EDR Contact: 09/09/2024
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: 05/02/2024
Next Scheduled EDR Contact: 08/12/2024
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: 03/25/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 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: 04/23/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 01/11/2024
Date Made Active in Reports: 01/16/2024
Number of Days to Update: 5

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/28/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/04/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 03/03/2023
Date Data Arrived at EDR: 03/03/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 98

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 04/26/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/16/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 02/29/2024
Date Data Arrived at EDR: 03/01/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 06/03/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/05/2024
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/21/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 01/02/2024
Date Data Arrived at EDR: 01/03/2024
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 1

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 04/04/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 01/07/2022
Date Data Arrived at EDR: 02/24/2023
Date Made Active in Reports: 05/17/2023
Number of Days to Update: 82

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/22/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/23/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/18/2024
Date Data Arrived at EDR: 03/19/2024
Date Made Active in Reports: 06/06/2024
Number of Days to Update: 79

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Quarterly

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 08/23/2022
Date Data Arrived at EDR: 11/22/2022
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 98

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 05/22/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/09/2024
Date Data Arrived at EDR: 02/27/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 87

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 05/29/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 12/17/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 04/04/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/17/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/06/2023
Date Data Arrived at EDR: 09/13/2023
Date Made Active in Reports: 12/11/2023
Number of Days to Update: 89

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 04/08/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/12/2024
Date Data Arrived at EDR: 02/13/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 51

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/14/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-566-0250
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services
Telephone: 202-741-5770
Last EDR Contact: 04/22/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits. Caveats and Limitations: Less than half of states have required PFAS monitoring for at least one of their permittees and fewer states have established PFAS effluent limits for permittees. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PFAS ECHO FIRE TRAIN: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PFAS PT 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-267-2675
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

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: 03/29/2024
Next Scheduled EDR Contact: 07/15/2024
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: 12/16/2016
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/10/2017
Number of Days to Update: 63

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 03/29/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: No Update Planned

BIOSOLIDS: ICIS-NPDES Biosolids Facility Data
The data reflects compliance information about facilities in the biosolids program.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 01/03/2024
Date Made Active in Reports: 01/16/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-564-4700
Last EDR Contact: 04/16/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

PFAS: PFAS Contamination Site Location Listing
A listing of PFAS sites included in the Envirostor and GeoTracker databases. Locations of potential sources of per - and polyfluoroalkyl substances (PFAS). This does not mean that PFAS has been produced, used, or discharged at these sites.

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/06/2024
Date Made Active in Reports: 05/29/2024
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

AQUEOUS FOAM: Former Fire Training Facility Assessments Listing
Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/05/2024
Date Made Active in Reports: 05/28/2024
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CHROME PLATING: Chrome Plating Facilities Listing

This listing represents chrome plating facilities the California State Water Resources Control Board staff identified as possibly being a source of Per- and polyfluoroalkyl substance (PFAS) contamination. Sites and locations were identified by staff with the Division of Water Quality in the California State Water Board. Data was collected from the CA Air Resources Board 2013 and 2018 - Cr VI emission survey, CA Emission Inventory, CA HAZ Waste discharge database and by reviewing storm water permits. Former chrome plating sites are also included that are open site investigation or remediation cases with the Regional Water Quality Control Boards and the Department of Toxic Substances Control.

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/05/2024
Date Made Active in Reports: 05/28/2024
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 03/19/2024
Date Data Arrived at EDR: 03/19/2024
Date Made Active in Reports: 06/11/2024
Number of Days to Update: 84

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

CUPA LIV-PLE: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 02/14/2024
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 05/08/2024
Number of Days to Update: 77

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

DRYCLEAN VENTURA: Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Ventura County Air Pollution Control District.

Date of Government Version: 01/04/2024
Date Data Arrived at EDR: 01/16/2024
Date Made Active in Reports: 02/08/2024
Number of Days to Update: 23

Source: Ventura County Air Pollution Control District
Telephone: 805-645-1421
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN AMADOR: Amador Air District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Amador Air Quality Management District

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 77

Source: Amador Air Quality Management District
Telephone: 209-257-0112
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 02/20/2024
Date Data Arrived at EDR: 02/22/2024
Date Made Active in Reports: 05/08/2024
Number of Days to Update: 76

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 05/17/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

DRYCLEAN MOJAVE: Mojave Desert Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Mojave Desert Air Quality Management District.

Date of Government Version: 04/15/2024
Date Data Arrived at EDR: 04/17/2024
Date Made Active in Reports: 04/24/2024
Number of Days to Update: 7
Source: Mojave Desert Air Quality Management District
Telephone: 760-245-1661
Last EDR Contact: 04/16/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN BUTTE: Butte County Air Quality Management DistrictDrycleaner Facility Listing
Butte County Air Quality Management DistrictDrycleaner Facility Listing.

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 10/18/2023
Date Made Active in Reports: 01/16/2024
Number of Days to Update: 90
Source: Butte County Air Quality Management District
Telephone: 530-332-9400
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN FEATHER RVR: Feather River Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Feather River Air Quality Management District.

Date of Government Version: 03/08/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 06/05/2023
Number of Days to Update: 88
Source: Feather River Air Quality Management District
Telephone: 530-634-7659
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN DIEGO: San Diego County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Diego County Air Pollution Control District.

Date of Government Version: 03/19/2024
Date Data Arrived at EDR: 03/21/2024
Date Made Active in Reports: 04/12/2024
Number of Days to Update: 22
Source: San Diego County Air Pollution Control District
Telephone: 858-586-2616
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 09/11/2023
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: 04/02/2024
Date Data Arrived at EDR: 04/05/2024
Date Made Active in Reports: 04/15/2024
Number of Days to Update: 10
Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 05/22/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Annually

DRYCLEAN GRANT: Grant Recipients List
Assembly Bill 998 (AB 998) established the Non-Toxic Dry Cleaning Incentive Program to provide financial assistance to the dry cleaning industry to switch from systems using perchloroethylene (Perc), an identified toxic air contaminant and potential human carcinogen, to non-toxic and non-smog forming alternatives.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 01/26/2024
Date Made Active in Reports: 04/16/2024
Number of Days to Update: 81
Source: California Air Resources Board
Telephone: 916-323-0006
Last EDR Contact: 04/25/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Varies

DRYCLEAN LAKE: Lake County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Lake County Air Quality Management District,

Date of Government Version: 02/15/2024
Date Data Arrived at EDR: 02/16/2024
Date Made Active in Reports: 05/02/2024
Number of Days to Update: 76

Source: Lake County Air Quality Management District
Telephone: 707-263-7000
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
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: 02/26/2024
Date Data Arrived at EDR: 02/27/2024
Date Made Active in Reports: 05/15/2024
Number of Days to Update: 78

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 05/22/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Varies

DRYCLEAN MENDOCINO: Mendocino County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Mendocino County Air Quality Management District.

Date of Government Version: 02/26/2024
Date Data Arrived at EDR: 02/28/2024
Date Made Active in Reports: 05/15/2024
Number of Days to Update: 77

Source: Mendocino County Air Quality Management District
Telephone: 707-463-4354
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN EAST KERN: Eastern Kern Air Pollution Control District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Eastern Kern Air Pollution Control District.

Date of Government Version: 01/12/2023
Date Data Arrived at EDR: 04/26/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 79

Source: Eastern Kern Air Pollution Control District
Telephone: 661-862-9684
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN IMPERIAL: Imperial County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Imperial County Air Pollution Control District

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 04/26/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 79

Source: Imperial County Air Pollution Control District
Telephone: 442-265-1800
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN YOLO-SOLANO: Yolo-Solano Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Yolo-Solano Air Quality Management District.

Date of Government Version: 01/04/2024
Date Data Arrived at EDR: 01/05/2024
Date Made Active in Reports: 03/20/2024
Number of Days to Update: 75

Source: Yolo-Solano Air Quality Management District
Telephone: 530-757-3650
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SHASTA: Shasta County Air Quality Management District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Shasta County Air Quality Management District.

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 78

Source: Shasta County Air Quality Management District
Telephone: 530-225-5674
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MONTERY BAY: Monterey Bay Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Monterey Bay Air Quality Management District.

Date of Government Version: 01/03/2024
Date Data Arrived at EDR: 01/05/2024
Date Made Active in Reports: 03/20/2024
Number of Days to Update: 75
Source: Monterey Bay Air Quality Management District
Telephone: 831-647-9411
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN LUIS OB: San Luis Obispo County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Luis Obispo County Air Pollution Control District.

Date of Government Version: 01/03/2024
Date Data Arrived at EDR: 01/04/2024
Date Made Active in Reports: 03/20/2024
Number of Days to Update: 76
Source: San Luis Obispo County Air Pollution Control District
Telephone: 805-781-5756
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN PLACER: Placer County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Placer County Air Quality Management District.

Date of Government Version: 05/15/2023
Date Data Arrived at EDR: 05/17/2023
Date Made Active in Reports: 08/14/2023
Number of Days to Update: 89
Source: Placer County Air Quality Management District
Telephone: 530-745-2335
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN JOAQUIN: San Joaquin Valley Air Pollution Control District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Joaquin Valley Air Pollution Control District.

Date of Government Version: 01/04/2024
Date Data Arrived at EDR: 01/04/2024
Date Made Active in Reports: 03/21/2024
Number of Days to Update: 77
Source: San Joaquin Valley Air Pollution Control District
Telephone: 559-230-6001
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN BAY AREA: Bay Area Air Quality Management District Drycleaner Facility Listing
Bay Area Air Quality Management District Drycleaner Facility Listing.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 05/30/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1432
Source: Bay Area Air Quality Management District
Telephone: 415-516-1916
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN CALAVERAS: Calaveras County Environmental Management Agency Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Calaveras County Environmental Management Agency.

Date of Government Version: 06/17/2019
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1412
Source: Calaveras County Environmental Management Agency
Telephone: 209-754-6399
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

DRYCLEAN N COAST: North Coast Unified Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the North Coast Unified Air Quality Management District.

Date of Government Version: 11/30/2016
Date Data Arrived at EDR: 04/19/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1473
Source: North Coast Unified Air Quality Management District
Telephone: 707-443-3093
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN N SIERRA: Northern Sierra Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Northern Sierra Air Quality Management District,

Date of Government Version: 05/07/2019
Date Data Arrived at EDR: 05/07/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1455
Source: Northern Sierra Air Quality Management District
Telephone: 530-274-9350
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SANTA BARB: Santa Barbara County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Santa Barbara County Air Pollution Control District.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1475
Source: Santa Barbara County Air Pollution Control District
Telephone: 805-961-8867
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN TEHAMA: Tehama County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Tehama County Air Pollution Control District.

Date of Government Version: 04/24/2019
Date Data Arrived at EDR: 04/24/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1468
Source: Tehama County Air Pollution Control District
Telephone: 530-527-3717
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN GLENN: Glenn County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Glenn County Air Pollution Control District.

Date of Government Version: 01/08/2024
Date Data Arrived at EDR: 01/10/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 77
Source: Glenn County Air Pollution Control District
Telephone: 530-934-6500
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN N SONOMA: Norther Sonoma County County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Northern Sonoma County Air Pollution Control District.,

Date of Government Version: 01/05/2024
Date Data Arrived at EDR: 01/10/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 77
Source: Santa Barbara County Air Pollution Control District
Telephone: 707-433-5911
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SACRAMENTO: Sacramento Metropolitan Air Quality Management DistrictDrycleaner Facility Listing
A listing of drycleaner facility locations, for the Sacramento Metropolitan Air Quality Management District.

Date of Government Version: 01/03/2024
Date Data Arrived at EDR: 01/10/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 77
Source: Sacramento Metropolitan Air Quality Management District
Telephone: 916-874-3958
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 06/09/2023
Date Made Active in Reports: 08/30/2023
Number of Days to Update: 82
Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/11/2024
Next Scheduled EDR Contact: 09/23/2024
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 01/16/2024
Date Data Arrived at EDR: 01/16/2024
Date Made Active in Reports: 04/03/2024
Number of Days to Update: 78

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/16/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

FIN ASSURANCE 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 01/11/2024
Date Data Arrived at EDR: 01/16/2024
Date Made Active in Reports: 04/03/2024
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/12/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

FIN 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: 02/07/2024
Date Data Arrived at EDR: 02/28/2024
Date Made Active in Reports: 05/15/2024
Number of Days to Update: 77

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

ICE: Inspection, Compliance and Enforcement

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/07/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 0

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/14/2024
Next Scheduled EDR Contact: 08/26/2024
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: 02/07/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 0

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/14/2024
Next Scheduled EDR Contact: 08/26/2024
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: 01/02/2024
Date Data Arrived at EDR: 01/03/2024
Date Made Active in Reports: 03/21/2024
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/04/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Quarterly

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 01/26/2024
Date Data Arrived at EDR: 01/30/2024
Date Made Active in Reports: 04/17/2024
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 07/15/2024
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: 12/31/2023
Date Data Arrived at EDR: 01/03/2024
Date Made Active in Reports: 03/21/2024
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/04/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Annually

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/05/2024
Date Made Active in Reports: 05/28/2024
Number of Days to Update: 84

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 01/23/2024
Date Data Arrived at EDR: 02/27/2024
Date Made Active in Reports: 05/16/2024
Number of Days to Update: 79

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 05/29/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 02/05/2024
Date Data Arrived at EDR: 02/06/2024
Date Made Active in Reports: 04/25/2024
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 02/26/2024
Date Data Arrived at EDR: 02/27/2024
Date Made Active in Reports: 05/17/2024
Number of Days to Update: 80

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 05/29/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Quarterly

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/05/2024
Date Made Active in Reports: 05/28/2024
Number of Days to Update: 84

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 03/08/2024
Date Data Arrived at EDR: 03/08/2024
Date Made Active in Reports: 05/29/2024
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 06/06/2024
Next Scheduled EDR Contact: 09/23/2024
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 04/25/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Annually

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/05/2024
Date Made Active in Reports: 05/28/2024
Number of Days to Update: 84

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)

Underground control injection sites

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/05/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 80

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 90

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/04/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/26/2024
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: 03/15/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/05/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 80

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/05/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 80

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing
In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/05/2024
Date Made Active in Reports: 05/28/2024
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
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: 02/26/2024
Date Data Arrived at EDR: 02/27/2024
Date Made Active in Reports: 05/14/2024
Number of Days to Update: 77

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 05/29/2024
Next Scheduled EDR Contact: 09/09/2024
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: 01/16/2024
Date Data Arrived at EDR: 01/16/2024
Date Made Active in Reports: 04/03/2024
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/16/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/05/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 80

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/05/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 80

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/05/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 80

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/05/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 80

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)

Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/05/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 80

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

PFAS PROJECT: NORTHEASTERN UNIVERSITY PFAS PROJECT

The PFAS Contamination Site Tracker records qualitative and quantitative data from each site in a chart, specifically examining discovery, contamination levels, government response, litigation, health impacts, media coverage, and community characteristics. All data presented in the chart were extracted from government websites, such as state health departments or the Environmental Protection Agency, and news articles.

Date of Government Version: 05/19/2023
Date Data Arrived at EDR: 04/05/2024
Date Made Active in Reports: 06/06/2024
Number of Days to Update: 62

Source: Social Science Environmental Health Research Institute
Telephone: N/A
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

E MANIFEST: Hazardous Waste Electronic Manifest System

EPA established a national system for tracking hazardous waste shipments electronically. This system, known as ?e-Manifest,? will modernize the nation?s cradle-to-grave hazardous waste tracking process while saving valuable time, resources, and dollars for industry and states.

Date of Government Version: 07/24/2023
Date Data Arrived at EDR: 04/18/2024
Date Made Active in Reports: 06/06/2024
Number of Days to Update: 49

Source: Environmental Protection Agency
Telephone: 833-501-6826
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Varies

UST FINDER RELEASE: UST Finder Releases Database

US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/31/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 79

Source: Environmental Protecton Agency
Telephone: 202-564-0394
Last EDR Contact: 05/08/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Semi-Annually

UST FINDER: UST Finder Database

EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories . UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 106

Source: Environmental Protection Agency
Telephone: 202-564-0394
Last EDR Contact: 05/08/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

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: 03/28/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 12/26/2023
Date Data Arrived at EDR: 12/26/2023
Date Made Active in Reports: 03/19/2024
Number of Days to Update: 84
Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 03/28/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 04/27/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 77
Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 04/25/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106
Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 03/28/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 03/01/2024
Date Data Arrived at EDR: 03/19/2024
Date Made Active in Reports: 06/11/2024
Number of Days to Update: 84

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/15/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 04/25/2024
Next Scheduled EDR Contact: 08/12/2024
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: 01/19/2024
Date Data Arrived at EDR: 01/24/2024
Date Made Active in Reports: 04/09/2024
Number of Days to Update: 76

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 04/19/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 02/05/2024
Date Data Arrived at EDR: 02/08/2024
Date Made Active in Reports: 04/26/2024
Number of Days to Update: 78

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 04/19/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/08/2022
Date Data Arrived at EDR: 08/09/2022
Date Made Active in Reports: 09/01/2022
Number of Days to Update: 23

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 04/19/2024
Next Scheduled EDR Contact: 08/05/2024
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: 06/28/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 72

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 03/28/2024
Next Scheduled EDR Contact: 07/08/2024
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: 04/12/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List

CUPA facility list.

Date of Government Version: 08/12/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 88

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List

Cupa facility list.

Date of Government Version: 01/17/2024
Date Data Arrived at EDR: 01/18/2024
Date Made Active in Reports: 04/03/2024
Number of Days to Update: 76

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/12/2024
Next Scheduled EDR Contact: 07/29/2024
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: 05/09/2024
Next Scheduled EDR Contact: 08/26/2024
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: 10/30/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 83
Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 06/11/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 04/25/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 05/08/2024
Number of Days to Update: 7
Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 04/25/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78
Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 02/05/2024
Date Data Arrived at EDR: 02/08/2024
Date Made Active in Reports: 04/26/2024
Number of Days to Update: 78
Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/08/2024
Next Scheduled EDR Contact: 07/22/2024
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: 04/12/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 06/06/2024
Next Scheduled EDR Contact: 09/23/2024
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 01/16/2024
Date Data Arrived at EDR: 01/18/2024
Date Made Active in Reports: 03/26/2024
Number of Days to Update: 68

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/12/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/09/2024
Date Data Arrived at EDR: 01/10/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 77

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/09/2024
Next Scheduled EDR Contact: 07/22/2024
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: 12/31/2022
Date Data Arrived at EDR: 01/12/2023
Date Made Active in Reports: 03/29/2023
Number of Days to Update: 76

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/22/2024
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: 03/19/2024
Next Scheduled EDR Contact: 07/01/2024
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: 04/13/2023
Date Data Arrived at EDR: 07/13/2023
Date Made Active in Reports: 09/27/2023
Number of Days to Update: 76

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 04/11/2024
Next Scheduled EDR Contact: 07/22/2024
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: 02/09/2024
Date Data Arrived at EDR: 03/19/2024
Date Made Active in Reports: 06/11/2024
Number of Days to Update: 84
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/01/2024
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: 02/09/2024
Date Data Arrived at EDR: 03/19/2024
Date Made Active in Reports: 06/11/2024
Number of Days to Update: 84
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation LA County List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 07/11/2023
Date Data Arrived at EDR: 10/17/2023
Date Made Active in Reports: 01/09/2024
Number of Days to Update: 84
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/18/2024
Next Scheduled EDR Contact: 07/29/2024
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: 04/05/2024
Next Scheduled EDR Contact: 07/22/2024
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: 04/12/2024
Next Scheduled EDR Contact: 07/29/2024
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: 04/12/2023
Date Data Arrived at EDR: 05/02/2023
Date Made Active in Reports: 06/13/2023
Number of Days to Update: 42
Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/12/2024
Next Scheduled EDR Contact: 07/29/2024
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: 05/09/2024
Next Scheduled EDR Contact: 08/26/2024
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: 03/22/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 11/22/2021
Number of Days to Update: 4

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/17/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 11/15/2023
Date Data Arrived at EDR: 11/20/2023
Date Made Active in Reports: 02/15/2024
Number of Days to Update: 87

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 05/08/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 05/17/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/04/2021
Date Data Arrived at EDR: 10/06/2021
Date Made Active in Reports: 12/29/2021
Number of Days to Update: 84
Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 03/22/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/17/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/17/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 10/31/2023
Date Data Arrived at EDR: 11/03/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 81
Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 04/16/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups Orange County
Petroleum and non-petroleum spills.

Date of Government Version: 02/02/2024
Date Data Arrived at EDR: 03/13/2024
Date Made Active in Reports: 06/04/2024
Number of Days to Update: 83
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 02/22/2024
Date Data Arrived at EDR: 03/13/2024
Date Made Active in Reports: 06/04/2024
Number of Days to Update: 83
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/22/2024
Date Data Arrived at EDR: 03/13/2024
Date Made Active in Reports: 06/04/2024
Number of Days to Update: 83

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/12/2024
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: 02/28/2024
Date Data Arrived at EDR: 02/28/2024
Date Made Active in Reports: 05/16/2024
Number of Days to Update: 78

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 05/22/2024
Next Scheduled EDR Contact: 09/09/2024
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: 04/12/2024
Next Scheduled EDR Contact: 07/29/2024
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: 01/04/2024
Date Data Arrived at EDR: 01/04/2024
Date Made Active in Reports: 03/29/2024
Number of Days to Update: 85

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/11/2024
Next Scheduled EDR Contact: 09/23/2024
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/04/2024
Date Data Arrived at EDR: 01/04/2024
Date Made Active in Reports: 03/21/2024
Number of Days to Update: 77

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/11/2024
Next Scheduled EDR Contact: 09/23/2024
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: 11/07/2022
Date Data Arrived at EDR: 12/21/2022
Date Made Active in Reports: 03/16/2023
Number of Days to Update: 85

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/25/2024
Next Scheduled EDR Contact: 07/08/2024
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: 11/07/2022
Date Data Arrived at EDR: 12/09/2022
Date Made Active in Reports: 03/01/2023
Number of Days to Update: 82

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/25/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 01/17/2024
Date Data Arrived at EDR: 01/18/2024
Date Made Active in Reports: 01/26/2024
Number of Days to Update: 8

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/12/2024
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: 02/13/2024
Date Data Arrived at EDR: 02/14/2024
Date Made Active in Reports: 05/02/2024
Number of Days to Update: 78

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 04/25/2024
Next Scheduled EDR Contact: 08/12/2024
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: 05/16/2024
Date Data Arrived at EDR: 05/22/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 2

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 05/22/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2023
Date Data Arrived at EDR: 01/31/2024
Date Made Active in Reports: 04/17/2024
Number of Days to Update: 77
Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/12/2024
Next Scheduled EDR Contact: 07/29/2024
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: 07/22/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 86
Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 04/12/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24
Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 05/22/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 02/01/2024
Date Data Arrived at EDR: 02/01/2024
Date Made Active in Reports: 04/24/2024
Number of Days to Update: 83
Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 04/25/2024
Next Scheduled EDR Contact: 08/12/2024
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: 04/25/2024
Next Scheduled EDR Contact: 08/12/2024
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: 02/01/2024
Date Data Arrived at EDR: 02/01/2024
Date Made Active in Reports: 04/24/2024
Number of Days to Update: 83
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 04/25/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Quarterly

SAN FRANCISO COUNTY:

SAN FRANCISCO MAHER: Maher Ordinance Property Listing
a listing of properties that fall within a Maher Ordinance, for all of San Francisco

Date of Government Version: 01/15/2024
Date Data Arrived at EDR: 01/18/2024
Date Made Active in Reports: 04/05/2024
Number of Days to Update: 78

Source: San Francisco Planning
Telephone: 628-652-7483
Last EDR Contact: 04/16/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/06/2024
Next Scheduled EDR Contact: 09/23/2024
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/14/2024
Date Data Arrived at EDR: 02/14/2024
Date Made Active in Reports: 05/02/2024
Number of Days to Update: 78

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/06/2024
Next Scheduled EDR Contact: 09/16/2024
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: 05/31/2024
Next Scheduled EDR Contact: 09/16/2024
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: 05/09/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/21/2024
Date Data Arrived at EDR: 02/22/2024
Date Made Active in Reports: 05/08/2024
Number of Days to Update: 76

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 05/17/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: No Update Planned

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

SITE MIT SANTA CRUZ: Site Mitigation Santa Cruz County List
Sites may become contaminated with toxic chemicals through illegal dumping or disposal, from leaking underground storage tanks, or through industrial or commercial activities.The goal of the site mitigation program is to protect the public health and the environment while facilitating completion of contaminated site clean-up projects in a timely manner.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 06/23/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 20

Source: Santa Cruz Environmental Health Services
Telephone: 831-454-2761
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 05/22/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/09/2021
Number of Days to Update: 84

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 05/22/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/15/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 86

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/15/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2022
Date Data Arrived at EDR: 02/10/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 83

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 08/03/2023
Date Data Arrived at EDR: 08/24/2023
Date Made Active in Reports: 09/12/2023
Number of Days to Update: 19

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 05/22/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 12/05/2023
Date Data Arrived at EDR: 02/01/2024
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 27

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 06/06/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 01/17/2024
Date Data Arrived at EDR: 01/18/2024
Date Made Active in Reports: 04/03/2024
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/12/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 10/07/2022
Date Data Arrived at EDR: 10/07/2022
Date Made Active in Reports: 12/21/2022
Number of Days to Update: 75

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 04/25/2024
Next Scheduled EDR Contact: 08/12/2024
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: 04/12/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 12/26/2023
Date Data Arrived at EDR: 01/24/2024
Date Made Active in Reports: 04/08/2024
Number of Days to Update: 75
Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/15/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/22/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 12/26/2023
Date Data Arrived at EDR: 01/23/2024
Date Made Active in Reports: 04/09/2024
Number of Days to Update: 77
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/15/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/27/2024
Date Data Arrived at EDR: 03/05/2024
Date Made Active in Reports: 05/29/2024
Number of Days to Update: 85
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 12/18/2023
Date Data Arrived at EDR: 12/26/2023
Date Made Active in Reports: 03/19/2024
Number of Days to Update: 84
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/22/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 01/22/2024
Date Data Arrived at EDR: 01/23/2024
Date Made Active in Reports: 04/08/2024
Number of Days to Update: 76

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 04/19/2024
Next Scheduled EDR Contact: 08/05/2024
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: 02/05/2024
Date Data Arrived at EDR: 02/06/2024
Date Made Active in Reports: 04/25/2024
Number of Days to Update: 79

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 03/29/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 11/30/2023
Date Made Active in Reports: 12/01/2023
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 04/25/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/08/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/13/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/03/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 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

494888
OKA ROAD
LOS GATOS, CA 95032

TARGET PROPERTY COORDINATES

Latitude (North):	37.253697 - 37ˆ 15’ 13.31’’
Longitude (West):	121.961096 - 121ˆ 57’ 39.95’’
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	592133.2
UTM Y (Meters):	4123318.2
Elevation:	265 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5640416 SAN JOSE WEST, CA
Version Date:	2012
South Map:	5640396 LOS GATOS, CA
Version Date:	2012

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

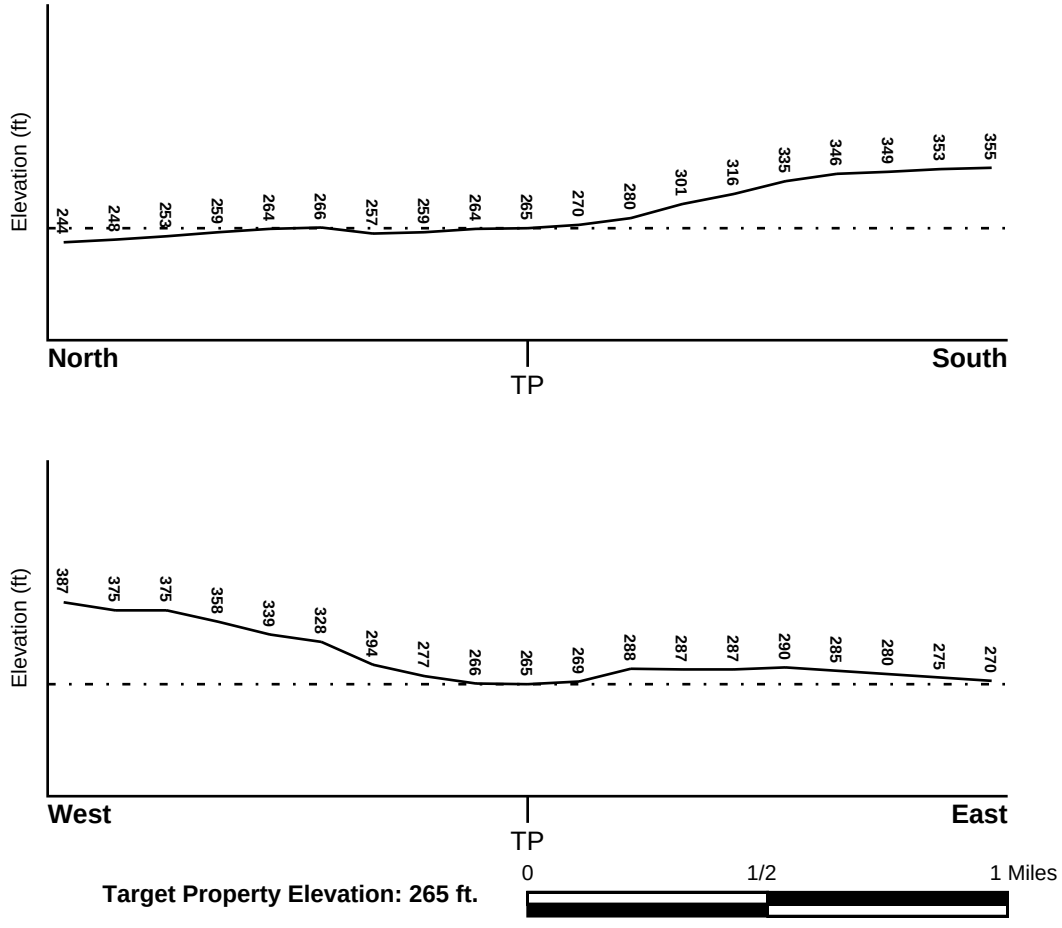
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General North

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06085C0239H	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06085C0238J	FEMA FIRM Flood data
06085C0376H	FEMA FIRM Flood data
06085C0377H	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
SAN JOSE WEST	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	BOTELLA
Soil Surface Texture:	clay loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	MODERATE
Depth to Bedrock Min:	> 60 inches
Depth to Bedrock Max:	> 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	9 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 7.30 Min: 5.60
2	9 inches	41 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 7.80 Min: 5.60
3	41 inches	76 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 0.60 Min: 0.20	Max: 7.80 Min: 5.60

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: No Other Soil Types

Surficial Soil Types: No Other Soil Types

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: No Other Soil Types

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

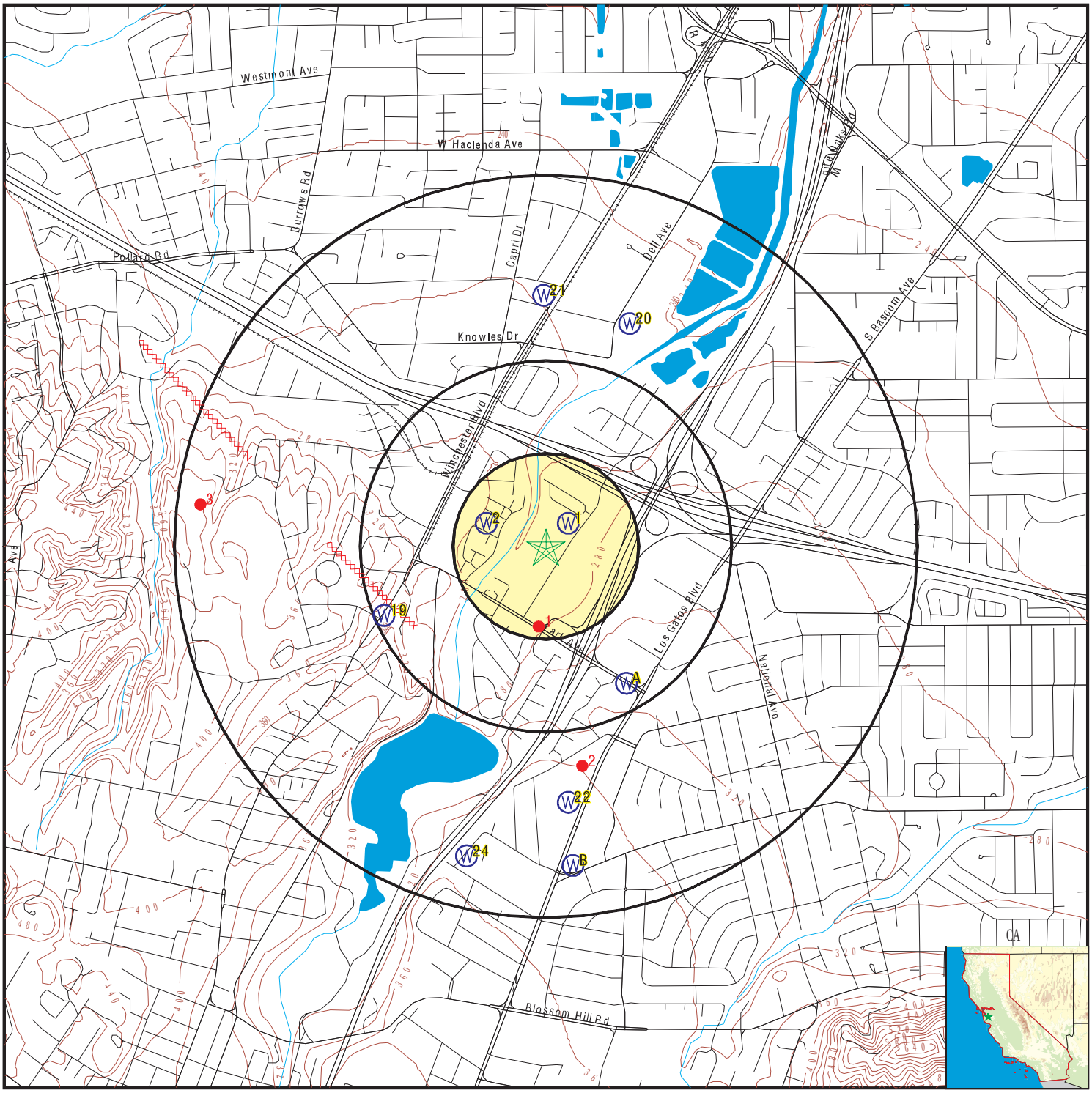
MAP ID	WELL ID	LOCATION FROM TP
1	CADWR0000012192	0 - 1/8 Mile NE
2	CADWR0000025373	1/8 - 1/4 Mile WNW
A3	CAEDF0000021149	1/4 - 1/2 Mile SSE
A4	CAEDF0000038382	1/4 - 1/2 Mile SSE
A5	CAEDF0000006072	1/4 - 1/2 Mile SSE
A6	CAEDF0000083871	1/4 - 1/2 Mile SE
A7	CAEDF0000062565	1/4 - 1/2 Mile SSE
A8	CAEDF0000111759	1/4 - 1/2 Mile SSE
A9	CAEDF0000093648	1/4 - 1/2 Mile SSE
A10	CAEDF0000108131	1/4 - 1/2 Mile SSE
A11	CAEDF0000017158	1/4 - 1/2 Mile SSE
A12	CAEDF0000072347	1/4 - 1/2 Mile SE
A13	CAEDF0000019925	1/4 - 1/2 Mile SSE
A14	CAEDF0000043534	1/4 - 1/2 Mile SSE
A15	CAEDF0000107146	1/4 - 1/2 Mile SSE
A16	CAEDF0000007911	1/4 - 1/2 Mile SSE
A17	CAEDF0000033574	1/4 - 1/2 Mile SSE
A18	CAEDF0000082563	1/4 - 1/2 Mile SSE
19	CADWR0000032872	1/4 - 1/2 Mile WSW
20	CADWR9000034495	1/2 - 1 Mile NNE
21	CAEDF0000115265	1/2 - 1 Mile North
22	CADWR0000014673	1/2 - 1 Mile South
B23	CAEDF0000131188	1/2 - 1 Mile South
24	19783	1/2 - 1 Mile SSW
B25	CAEDF0000103176	1/2 - 1 Mile South
B26	CAEDF0000101546	1/2 - 1 Mile South

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CAOG17000011110	1/8 - 1/4 Mile South
2	CAOG17000002235	1/2 - 1 Mile South
3	CAOG17000002223	1/2 - 1 Mile West

PHYSICAL SETTING SOURCE MAP - 7680460.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

*Figure not OCR compatible.

SITE NAME: 494888	CLIENT: AEI Consultants
ADDRESS: Oka Road Los Gatos CA 95032	CONTACT: Yvonne
LAT/LONG: 37.253697 / 121.961096	INQUIRY #: 7680460.2s DATE: June 12, 2024 5:56 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
NE
0 - 1/8 Mile
Higher

CA WELLS **CADWR0000012192**

Well ID:	08S01W10G001M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	08S01W10G001M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=08S01W10G001M&store_num=		
GeoTracker Data:	Not Reported		

2
WNW
1/8 - 1/4 Mile
Higher

CA WELLS **CADWR0000025373**

Well ID:	08S01W10F002M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	08S01W10F002M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=08S01W10F002M&store_num=		
GeoTracker Data:	Not Reported		

A3
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000021149**

Well ID:	T0608500398-MW-4D	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4D
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608500398&assigned_name=MW-4D&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608500398&assigned_name=MW-4D		

A4
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000038382**

Well ID:	T0608500398-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608500398&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608500398&assigned_name=MW-3		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A5
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000006072**

Well ID:	T0608500398-MW-14	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-14
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608500398&assigned_name=MW-14&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608500398&assigned_name=MW-14		

A6
SE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000083871**

Well ID:	T0608500398-MW-6	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608500398&assigned_name=MW-6&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608500398&assigned_name=MW-6		

A7
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000062565**

Well ID:	T0608500398-MW-5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608500398&assigned_name=MW-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608500398&assigned_name=MW-5		

A8
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000111759**

Well ID:	T0608500398-MW-15	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-15
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608500398&assigned_name=MW-15&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608500398&assigned_name=MW-15		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A9
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000093648**

Well ID:	T0608500398-MW-9	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-9
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608500398&assigned_name=MW-9&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608500398&assigned_name=MW-9		

A10
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000108131**

Well ID:	T0608500398-MW-12	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-12
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608500398&assigned_name=MW-12&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608500398&assigned_name=MW-12		

A11
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000017158**

Well ID:	T0608500398-MW-2R	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2R
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608500398&assigned_name=MW-2R&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608500398&assigned_name=MW-2R		

A12
SE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000072347**

Well ID:	T0608500398-MW-11	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-11
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608500398&assigned_name=MW-11&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608500398&assigned_name=MW-11		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A13
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000019925**

Well ID:	T0608500398-VW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	VW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608500398&assigned_name=VW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608500398&assigned_name=VW-1		

A14
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000043534**

Well ID:	T0608500398-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608500398&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608500398&assigned_name=MW-2		

A15
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000107146**

Well ID:	T0608500398-MW-7R	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-7R
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608500398&assigned_name=MW-7R&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608500398&assigned_name=MW-7R		

A16
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000007911**

Well ID:	T0608500398-MW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608500398&assigned_name=MW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608500398&assigned_name=MW-1		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A17
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000033574**

Well ID:	T0608500398-MW-8	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-8
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608500398&assigned_name=MW-8&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608500398&assigned_name=MW-8		

A18
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000082563**

Well ID:	T0608500398-MW-10	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-10
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608500398&assigned_name=MW-10&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608500398&assigned_name=MW-10		

19
WSW
1/4 - 1/2 Mile
Higher

CA WELLS **CADWR0000032872**

Well ID:	08S01W10M001M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	08S01W10M001M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=08S01W10M001M&store_num=		
GeoTracker Data:	Not Reported		

20
NNE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000034495**

State Well #:	08S01W03K013M	Station ID:	47672
Well Name:	08S01W03K013	Basin Name:	Santa Clara
Well Use:	Observation	Well Type:	Single Well
Well Depth:	94	Well Completion Rpt #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

21
North
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000115265**

Well ID:	T0608500376-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608500376&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608500376&assigned_name=MW-3		

22
South
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000014673**

Well ID:	08S01W15B001M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	08S01W15B001M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=08S01W15B001M&store_num=		
GeoTracker Data:	Not Reported		

B23
South
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000131188**

Well ID:	T10000001953-MW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T10000001953&assigned_name=MW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000001953&assigned_name=MW-1		

24
SSW
1/2 - 1 Mile
Higher

CA WELLS **19783**

Seq:	19783	Prim sta c:	4300616-001
Frds no:	4300616001	County:	43
District:	05	User id:	HEN
System no:	4300616	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT
Latitude:	371430.0	Longitude:	1215750.0
Precision:	4	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

System no:	4300616	System nam:	Uvas Canyon County Park
Hqname:	Not Reported	Address:	298 GARDEN HILL DRIVE
City:	LOS GATOS	State:	CA
Zip:	95030	Zip ext:	Not Reported
Pop serv:	25	Connection:	2
Area serve:	Not Reported		

B25
South
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000103176**

Well ID:	T10000001953-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T10000001953&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000001953&assigned_name=MW-3		

B26
South
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000101546**

Well ID:	T10000001953-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T10000001953&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000001953&assigned_name=MW-2		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1
South **OIL_GAS** **CAOG17000011110**
1/8 - 1/4 Mile

OIL_GAS:

API #:	0408500020	Well #:	2
Well Type:	Dry Hole	Well Status:	Plugged
Lease Name:	Lease by Traders Oil Corp.		
Well Design:	2	Operator ID:	08511
Operator Name:	Traders Oil Corp.	Field Name:	Any Field
Area Name:	Any Area	Place:	Los Gatos
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08500020		

2
South **OIL_GAS** **CAOG17000002235**
1/2 - 1 Mile

OIL_GAS:

API #:	0408520067	Well #:	1
Well Type:	Dry Hole	Well Status:	Plugged
Lease Name:	Peck	Well Design:	Peck 1
Operator ID:	08677	Operator Name:	Unknown Operator
Field Name:	Any Field	Area Name:	Any Area
Place:	Los Gatos	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08520067		

3
West **OIL_GAS** **CAOG17000002223**
1/2 - 1 Mile

OIL_GAS:

API #:	0408500004	Well #:	1
Well Type:	Dry Hole	Well Status:	Plugged
Lease Name:	Lease by Carl Crossen	Well Design:	1
Operator ID:	01370	Operator Name:	Carl Crossen
Field Name:	Any Field	Area Name:	Any Area
Place:	Los Gatos	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08500004		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
95032	34	0

Federal EPA Radon Zone for SANTA CLARA County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 95032

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.550 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

Geothermal Wells Listing
Department of Conservation
Telephone: 916-445-9686
Geothermal well means a well constructed to extract or return water to the ground after it has been used for heating or cooling purposes. Geothermal wells in California (except for wells on federal leases which are administered by the Bureau of Land Management) are permitted, drilled, operated, and permanently sealed and closed (plugged and abandoned) under requirements and procedures administered by the Geothermal Section of the Department of Conservations Geologic Energy Management Division (CalGEM, formerly DOGGR).

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.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

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

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX D

HISTORICAL SOURCES

494888

Oka Road

Los Gatos, CA 95032

Inquiry Number: 7680460.8

June 12, 2024

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

06/12/24

Site Name:

494888
Oka Road
Los Gatos, CA 95032
EDR Inquiry # 7680460.8

Client Name:

AEI Consultants
2500 Camino Diablo
Walnut Creek, CA 94597
Contact: Yvonne

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2020	1"=500'	Flight Year: 2020	USDA/NAIP
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'	Flight Date: September 06, 1998	USDA
1993	1"=500'	Acquisition Date: June 14, 1993	USGS/DOQQ
1982	1"=500'	Flight Date: July 05, 1982	USDA
1974	1"=500'	Flight Date: June 26, 1974	USGS
1970	1"=500'	Flight Date: April 30, 1970	USGS
1968	1"=500'	Flight Date: June 14, 1968	USGS
1963	1"=500'	Flight Date: June 23, 1963	EDR Proprietary Aerial Viewpoint
1956	1"=500'	Flight Date: June 09, 1956	USDA
1950	1"=500'	Flight Date: April 01, 1950	USDA
1948	1"=500'	Flight Date: September 26, 1948	USDA
1939	1"=500'	Flight Date: July 31, 1939	USDA

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0 Feet 500 1000 2000

N

AEI

AERIAL PHOTOGRAPH - 2020



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 2016

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0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 2012

AEI



0 Feet 500 1000 2000

N

AEI

AERIAL PHOTOGRAPH - 2009



0 Feet 500 1000 2000

N

AEI

AERIAL PHOTOGRAPH - 2006



0 Feet 500 1000 2000

N

AEI

AERIAL PHOTOGRAPH - 1998



0 Feet 500 1000 2000

N

AEI

AERIAL PHOTOGRAPH - 1993



0 Feet 500 1000 2000

N

AEI

AERIAL PHOTOGRAPH - 1982



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1974

AEI



0 Feet 500 1000 2000

N

AEI

AERIAL PHOTOGRAPH - 1970



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1968

AEI



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AERIAL PHOTOGRAPH - 1963

AEI



0 Feet 500 1000 2000

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AERIAL PHOTOGRAPH - 1956

AEI



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N

AEI

AERIAL PHOTOGRAPH - 1950



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1948

AEI



0 Feet 500 1000 2000

N

AERIAL PHOTOGRAPH - 1939

AEI

494888

Oka Road

Los Gatos, CA 95032

Inquiry Number: 7680460.3

June 12, 2024

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

06/12/24

Site Name:

494888
Oka Road
Los Gatos, CA 95032
EDR Inquiry # 7680460.3

Client Name:

AEI Consultants
2500 Camino Diablo
Walnut Creek, CA 94597
Contact: Yvonne

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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 # 39C9-4E82-8D63

PO # 370358

Project 494888

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 #: 39C9-4E82-8D63

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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494888
Oka Road
Los Gatos, CA 95032

Inquiry Number: 7680460.5
June 17, 2024

The EDR-City Directory Image Report

EDR® Environmental Data Resources Inc

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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 Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available business directory data at approximately five year intervals.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	*Target Street*	*Cross Street*	*Source*
2020	☑	☑	EDR Digital Archive
2017	☑	☑	Cole Information
2014	☑	☑	Cole Information
2010	☑	☑	Cole Information
2005	☑	☑	Cole Information
2000	☑	☑	Cole Information
1995	☑	☑	Cole Information
1992	☑	☑	Cole Information
1985	☑	☑	Haines Criss-Cross Directory
1981	☑	☑	Haines Criss-Cross Directory
1976	☑	☑	Haines Criss-Cross Directory
1971	☑	☑	Haines Criss-Cross Directory
1968	☑	☑	Polk's City Directory
1962	☐	☑	Polk's City Directory

FINDINGS

TARGET PROPERTY STREET

Oka Road
Los Gatos, CA 95032

Year	*CD Image*	*Source*	
OKA RD			
2020	pg A2	EDR Digital Archive	
2017	pg A5	Cole Information	
2014	pg A9	Cole Information	
2010	pg A13	Cole Information	
2005	pg A17	Cole Information	
2000	pg A22	Cole Information	
1995	pg A27	Cole Information	
1992	pg A30	Cole Information	
1985	pg A33	Haines Criss-Cross Directory	
1985	pg A34	Haines Criss-Cross Directory	
1981	pg A36	Haines Criss-Cross Directory	
1981	pg A37	Haines Criss-Cross Directory	
1976	pg A40	Haines Criss-Cross Directory	
1976	pg A41	Haines Criss-Cross Directory	
1971	pg A43	Haines Criss-Cross Directory	
1971	pg A44	Haines Criss-Cross Directory	
1968	pg A46	Polk's City Directory	
1968	pg A47	Polk's City Directory	
1962	-	Polk's City Directory	Street not listed in Source

FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*
LARK AVE		
2020	pg. A1	EDR Digital Archive
2017	pg. A4	Cole Information
2014	pg. A8	Cole Information
2010	pg. A12	Cole Information
2005	pg. A16	Cole Information
2000	pg. A20	Cole Information
1995	pg. A25	Cole Information
1992	pg. A29	Cole Information
1985	pg. A31	Haines Criss-Cross Directory
1985	pg. A32	Haines Criss-Cross Directory
1981	pg. A35	Haines Criss-Cross Directory
1976	pg. A38	Haines Criss-Cross Directory
1976	pg. A39	Haines Criss-Cross Directory
1971	pg. A42	Haines Criss-Cross Directory
1968	pg. A45	Polk's City Directory
1962	pg. A48	Polk's City Directory

City Directory Images

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

LARK AVE 2020

16601	JHONALYN OTTMANN
	MARK OTTMANN
	RUTH MCGUY
	THUY NGUYEN
	TODD TORGERSON
16605	LOS GATOS CARE HOLDINGS LLC
16615	ATHENA SMARTCARD INC
	LOS GATOS ORTHO SPORTS THERAPY
	LOS GATOS ORTHOPEDIC SPORTS
	MASON J SACKS
	PARADI KLAUDIA
	PERFORMANCE SPORTS CLINIC
	SECURITIES AMERICA INC
	SHARE VAULT
	TOWNE BUSINESS & TAX SVC
	TRUONG AN TINH PT
	VASONA FINANCIAL GROUP
	VIVID ESTATES
	VU DEXTER DPT
16735	CONGREGATION TSEMACH ADONAI
	LEGACY COMMUNITY CHURCH
16780	CORETEC
	DAVE KEEFE REAL ESTATE TEAM
	KELLER WILLIAMS REALTY
	PRINCETON CAPITAL LLC
	SILICON VALLEY REAL ESTATE
16795	26 WINDING WAY LLC A CA LLC
	ACQUIS BI
	BRIGHTSIGN
	CARPET CLEANING LOS GATOS
	CHICAGO TITLE INSURANCE CO
	CINTHIA LAZARES
	DAVID LAZARES
	DIRECT MORTGAGE
	FIRETIDE INC
	LAURA PETERSON-STATE FARM INS
	LAZARES CO
	MATTHEW LAZARES
	NETLINE CORP
	PANDESA CORP
	SHAREVAULT
	STATE FARM INSURANCE
	TOYON VENTURES LLC

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

OKA RD 2020

14685	BONNIE VIEW PARK
	GERALD MIRASSOU
	KM PUBLICATIONS
14700	CHARLES GLEAVE
	CROSSFIT LGSRC
	LOS GATOS SWIM & RACQUET CLUB
14702	CHAD GLEAVE
	LAUREN DENEVI
	RONALD DENEVI
14800	CAROL YUKI
	JASON YUKI
	MARIKO YUKI
	THOMAS YUKI
14850	ADAM WALSWORTH
	ALISON HUSE-FARHNER
	BERNABE CORDERO
	BRENT DRESSEN
	CHERYL KEAMA
	CODY GERSTELL
	DAVID MALETTA
	DIEGO BARRAGAN
	FATIMA MENDOZA
	GO SASAKI
	HELEN CORDERO
	JEFFREY HEFTI
	JO BOND
	LAILA DOMINGUES
	LARRY FARHNER
	LAURA NACHISON
	LOS GATOS GARDENS
	MANUELA LESPAGNARD
	MARILOU MANCITA
	NANCY GERSTELL
	NATALINA BARRAGAN
	NICHOLLE GUTIERREZ
	PRASAD MOKKARALA
	RACHEL NACHISON
	RAJKUMAR VENKATESALU
	SAMUEL NACHISON
	SAYYED JAZAERI
	SHARRUKIN AMIRI
	SIERLEY PATRICIO
	TARGET INTEGRATION CTR
14855	ADDISON PENZAK JEWISH PRSCHL
	ALIGNED FITNESS
	APJCC SILICON VALLEY
	ATM
	JEWIS FEDERATION-SILICON VLY
	JEWISH COMMUNITY CTR
	JEWISH FAMILY SVC-SILICON VLY

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

OKA RD 2020 (Cont'd)

14855	JEWISH MAGAZINE
	YAVNEH DAY SCHOOL INC
14930	ALBERT MOLHEMANHAR
	ANDREW MACKIE
	ANTONIA CORRALES
	ASHLEY REARDON
	ATSUSHI HASEGAWA
	BRITTANY BUTCHER
	CARMEN IRIARTE
	CRAIG BUTCHER
	DEBRA SEVERIN
	FRANK SANDOVAL
	GO SASAKI
	JAMES REARDON
	JUSTINE BUTCHER
	KAY SASAKI
	KHANH TRAN
	KIYOKO HASEGAWA
	LA MAR APARTMENTS
	MARDIN AMIRI
	MARY HOLD
	MASHRU MISHU
	MICAH BACA
	MICHEAL SYLVESTER
	RADHIKA BAUERLE
	SUZANNE REGAN
	VIOLA GRIFFIN

Target Street	Cross Street	Source
-	✓	Cole Information

LARK AVE 2017

16601	ANSARI, MUSTAFA
	BALBAS, JHONALYN I
	MARRAPO, DENISE P
	NGUYEN, THUY
	NORWOOD, ROSALITA Q
	NOSRATI, ALFE M
16603	MITYUGOV, VLADIMIR
16605	LOS GATOS OAKS CONVALESCENT HOSPITAL
16615	ATHENA SMARTCARD INC
	AUTO CLUB LOCKSMITHS
	CONVERGENCE SYSTEMS
	FOOTHILL SECURITIES
	GOAMERICA
	LOS GATOS ORTHOPEDIC SPORTS
	PERFORMANCE SPORTS CLINIC
	UPSWING
	VASONA FINANCIAL GROUP
16735	CONGREGATION TSEMACH ADONAI
	LEGACY COMMUNITY CHURCH
16780	BRIGHTSIGN
	PRINCETON CAPITAL
	RMR FINANCIAL
	WAGIC
16795	24 HOUR LOCKSMITH
	BRIGHTSIGN LLC
	LAZARES COMPANIES
	PRINCETON CAPITAL
	ROVING NETWORKS
	STATE FARM INSURANCE

Target Street	Cross Street	Source
✓	-	Cole Information

OKA RD 2017

14685	ACEBEDO, TOMAS D
	AGUILERA, ANGELA
	ALABURDA, LESLIE M
	ALVA, EDGAR
	BARR, TERRY M
	BARRISH, PAUL
	BIGGERSTAFF, BRIAN P
	BONNIE VIEW PARK
	BRICHETTO, ROBERT G
	CHATOFF, CAMELARIA
	COHEN, NANCY W
	CORRIEA, DENA L
	DRAKE, JONATHAN E
	DUNAWAY, KEVIN L
	FLORES, CHRISTOPHER
	FOLLETTE, RAYMOND R
	FREAS, ROBERT
	GALLAGHER, PAT A
	GERASIMOV, ALEKSANDER
	GUFFIN, GARY D
	HERNANDEZ, ALICIA G
	KATICICH, LAURA A
	LABARBERA, JOHN S
	LATTA, HOLLY G
	LEWIS, LANCE J
	LINCOLN, LOUIS
	MARUCCI, TON
	MORGAN, JEAN B
	NORTHON, LAVERNE V
	PARRISH, DEBORAH M
	PINTO, LOUISE
	RALSTIN, CARL D
	RAMIREZ, MARGARITA
	SAGAYANO, SHARI
	SEIXAS, MICHAEL L
	SLATER, MICHAEL E
	STONEY, STEVEN L
	TORRECILLAS, ROCKY M
	TOSTADO, SAL
	UDEN, TRISH A
	WEIGHTMAN, PAUL
	WHITMYRE, DENNIS L
	WHITMYRE, JAMES L
	YASAY, DONNA U
	ZWIER, DANIEL M
14700	LOS GATOS SWIM & RACQUET CLUB
14702	DENEVI, RONALD P
14800	YUKI, JASON S
14840	PERRY, CAMERON W
14850	AMIRI, SHARRUKIN

Target Street	Cross Street	Source
✓	-	Cole Information

OKA RD 2017 (Cont'd)

14850	ANDRADE, FLORIAN B
	BARRAGAN, ROBERT N
	BARRERA, HERMAN M
	BASOUN, KELLY I
	CORDERO, BEN C
	DOMINGUES, LAILA G
	DRESSEN, BRENT A
	ELLER, SUSAN G
	FARHNER, LARRY H
	GERSTELL, CODY
	HAGE, ANTONIOS N
	HEFTI, JEFFERY G
	HERRICK, MATHEW
	JAZAERI, SAYYED R
	KANG, DAVID I
	LANDMARK APARTMENTS
	LESPAGNARD, MANU
	MENDOZA, FATIMA E
	MONDRAGON, EDWARD U
	NOWELL, JENNIFER A
	ODAFFER, MARCI J
	OLIVERA, SYLVIA F
	PEPPER, KATHY A
	PHILLIPS, LEE
	ROJAS, EMIL P
	SHEGAI, NIKOLAI
	TRIVEDI, DEEPTI
	VU, LAURA
	YOUMANS, SARA E
	YUMAEV, RUSTEM
14855	ADDISON PENZAK JEWISH COMMUNITY CENT
	JEWISH FAMILY SERVICES
	JEWISH FEDERATION OF SILICON VALLEY
	MOCHA LOCKSMITH
	MORE PHYSICAL THERAPY INC
	YAVNEH DAY SCHOOL
14930	ARNOT, GREG
	BAKER, MAUREEN N
	COMPASS POINT LLC
	DEFERRARI, ERNEST L
	FREYLING, ED A
	GREGORY, ERNESTINE
	HARDTUNG, MARK A
	HASEGAWA, ATSUSH
	HIGBEE, TONYA M
	HOLD, MARY
	IRIARTE, CARMEN
	JENKINS, AMBER L
	JOHNSON, HEATHER
	LAMAR APARTMENTS

Target Street	Cross Street	Source
✓	-	Cole Information

OKA RD 2017 (Cont'd)

14930	LEWIS, ALAN K
	LOPEZ, ADAM G
	LOPEZ, PAULINE R
	MACKIE, ANDREW W
	MALETTA, DAVID C
	MONTERO, CARLOS
	NINO, GERARDO
	PUSSEHL, BRIGITTE N
	REARDON, JAMES G
	ROACH, DEANNA
	SALDANA, SARAH
	SALIHIC, NERMIN
	SALINAS, MARIA B
	SYLVESTER, MICHAEL
	TRAN, MINH
	VADASZ, TASHA A
	ZHANG, ERTONG

Target Street	Cross Street	Source
-	✓	Cole Information

LARK AVE 2014

16601	ANSARI, MUSTAFA
	BALBAS, JHONALYN I
	LIEN, HA
	MARRAPO, DENISE P
	NOSRATI, ALFE M
	STELL, LANCE
16603	MITYUGOV, VLADIMIR
16605	LOS GATOS OAKS CONVALESCENT HOSPITAL
16615	ATHENA SMARTCARD INC
	AUTO CLUB LOCKSMITHS
	CONVERGENCE SYSTEMS
	FOOTHILL SECURITIES
	GOAMERICA
	LAW OFC MARTIN LETTUNICH
	LOS GATOS ORTHOPEDIC SPORTS
	PERFORMANCE SPORTS CLINIC
	PROVIDEA
	SACKS MASON J LAW OFFICES
	TOWNE BUSINESS & TAX SERVICES INC
	TOWNE FINANCIAL SERVICES INC
	UPSWING
	VASONA FINANCIAL GROUP
16735	CONGREGATION TSEMACH ADONAI
	LEGACY COMMUNITY CHURCH
16780	PRINCETON CAPITAL
	RMR FINANCIAL
	WAGIC
16794	LAZARES, DAVID
16795	ACQUIS INC
	BRIGHTSIGN LLC
	CALMA COMPANY
	CHICAGO TITLE
	DIRECT MORTGAGE
	LAURA PETERSON STATE FARM INSURANC
	LAURA PETERSON STATE FARM
	LAZARES COMPANIES
	STATE FARM INSURANCE
	WJ BRADLEY MORTGAGE

Target Street	Cross Street	Source
✓	-	Cole Information

OKA RD 2014

14685	ACEBEDO, TOMAS D
	AGUILERA, ANGELA
	BARRISH, PAUL
	BERBIG, ELIZABETH
	BIGGERSTAFF, BRIAN P
	BONNIE VIEW PARK
	BRLTRAN, FRED P
	BUENO, DANNY
	CHIAPPARELLI, DAVID
	COCKING, STARRIE
	COHEN, NANCY W
	COLE, JACK R
	DROZDIAK, JAMES P
	DUDNICK, SAMANTHA A
	DUNAWAY, KEVIN L
	ENGKILTERRA, PETER R
	FOLLETTE, RAYMOND R
	FREAS, ROBERT
	GALLAGHER, PAT A
	HALL, JON A
	HERNANDEZ, ALICIA G
	JACOBS, MARC R
	JOHNSON, MICHAEL A
	KATICICH, LAURA A
	LABARBERA, JOHN S
	LATTA, HOLLY
	LEWIS, LANCE J
	LINCOLN, LOUIS
	MARTINEZ, CAROL A
	MIRASSOU, CLOVIS M
	MONROE, EVE L
	MORGAN, JEAN B
	MORISHITA, MARY K
	NORTHON, LAVERNE V
	PINTO, LOUISE
	RALSTIN, CARL D
	SAGAYANO, SHARI
	SEIXAS, MICHAEL L
	SLATER, MICHAEL E
	STANTON, REBECCA F
	TEMPLEMAN, JUDEE
	THORN, ZOE A
	TORRECILLAS, ROCKY M
	TOSTADO, SAL
	UDEN, BRYAN
	WALTON, WARNER
	WILLIAMS, SCOTT J
	YASAY, DONNA U
	ZWIER, DANIEL E
14700	LOS GATOS SWIM & RACQUET CLUB

Target Street	Cross Street	Source
✓	-	Cole Information

OKA RD 2014 (Cont'd)

14702	OCCUPANT UNKNOWN,
14800	OCCUPANT UNKNOWN,
14840	MCCLENATHAN, WILLIAM S
14850	AMIRI, SHARRUKIN
	ANDRADE, AMBER
	BANUELOS, SANTIAGO H
	BARRAGAN, ROBERT N
	BITTNER, NANCY C
	BOND, JIM D
	BROWN, TONI
	CHAMBERS, LORI A
	CORDERO, BEN C
	DIMMOCK, VENNESSA
	ESPEJO, ANNABELLE
	FARHNER, LARRY R
	GARCIA, JUANITA
	HADDAD, RAMZY K
	HAGE, ANTONIOS N
	HERRICK, MATHEW
	JAZAERI, SAYYED R
	KANG, DAVID I
	KEAMA, NOAH
	KUTSCHA, AMBER L
	LAMBERT, AMY
	LANDMARK APARTMENTS
	LESPAGNARD, MANU
	LOVETTA, PATRICIA
	MARTIN, STEVE
	MILLER, JOHN R
	MOKKARALA, CHARAN
	MORALES, MATTHEW
	MOSUNIC, MARIO
	ODAFFER, MARCI J
	ROJAS, EMIL P
	RUGANI, MIKE G
	SCRIPPS, JUSTIN
	SENOUR, ALICIA B
	VARNER, ROBERT J
	VELASQUEZ, CLAUDIA
	VENKATESALU, RAJ
	VOLOSSKIY, ALEXEY
	WEBER, ROXANNE L
14855	ADDISON PENZAK JEWISH COMMUNITY CENT
	JEWISH COMMUNITY CENTER
	JEWISH FAMILY SERVICE OF SILICON VAL
	JEWISH FEDERATION OF SILICON VALLEY
	MORE PHYSICAL THERAPY INC
	YAVNEH DAY SCHOOL
14930	ARNOT, GREG
	BAKER, MAUREEN N

Target Street	Cross Street	Source
✓	-	Cole Information

OKA RD 2014 (Cont'd)

14930	BAUTISTA, CAROLINA
	BLANCE, AUDE
	BRASSEUR, AMY
	BUTCHER, BRITTANY F
	CHOMICZ, JACOB
	DEFERRARI, ERNEST L
	FERNANDO, SALCEDO
	FREYLING, ED A
	HARTEL, JONATHAN J
	HARTUNG, MISTY D
	HASEGAWA, ATSUSH
	HOLD, MARY
	IRIARTE, CARMEN
	JACK, BRANDY
	JOHNSON, CHRISTOPHER E
	KHARCHENKO, LUBA A
	LA MAR APARTMENTS
	LEMAT, MARIA
	LEWIS, ALAN K
	LOPEZ, GEORGE L
	MACKIE, ANDREW W
	MITCHELL, TIMOTHY W
	PUSSEHL, BRIGITTE N
	ROBINSON, MELISSA
	SANTANA, AMY
	SEVERIN, DEBRA T
	SHATAS, IAN B
	SHEDROFF, DRAGANA
	STEWARD, MICHAEL
	TRAN, MINH
	TUCCI, ROSS

Target Street	Cross Street	Source
-	✓	Cole Information

LARK AVE 2010

16601	BADILLO, DAVID J
	BALBAS, ARIEL L
	GUTIERREZ, DAVID
	HO, THUY
	MCGUY, RUTH A
	NGUYEN, NGAI X
	PEREZ, BETTY F
	TRAN, DAO
	VALADEZ, MARIA I
16603	COON, ERIN M
16605	LOS GATOS OAKS CONVALESCENT
16615	COMPENSATION RESOURCES INC
	FOOTHILL SECURITIES
	GOAMERICA
	TOWNE BUSINESS & TAX SVC INC
	TOWNE FINANCIAL SVC INC
	VASONA FINANCIAL GROUP
16735	FIRST ASSEMBLY OF GOD
	FOUNTAIN OF LIFE WORSHIP CTR
16780	MORTGAGE CALIFORNIA
	PACEWORKS INC
	PRINCETON CAPITAL
	RMR FINANCIAL
	WAGIC
16795	FIRETIDE INC
	STATE FARM INSURANCE
	VIACLIX

Target Street	Cross Street	Source
✓	-	Cole Information

OKA RD 2010

14685	ALABURDA, LESLIE M
	ALWAYS MOVING
	BAKTHI, STARRIE
	BECKSTEAD, CHAD D
	BIGGERSTAFF, BRIAN P
	BONNIE VIEW PARK
	BRICHETTO, ROBERT G
	BROWN, DIANE J
	CARRILLO, FERNANDO N
	COHEN, NANCY W
	COLE, JACK R
	CORIELL, ELSIE
	DIXON, FRANK
	DUNAWAY, KEVIN L
	FARNSWORTH, JUDY A
	FLANAGAN, ANNE M
	FOLLETTE, RAYMOND R
	FREAS, JOYCE L
	GALLAGHER, PAT A
	GUERRA, RUBEN O
	HALL, JON A
	HERNANDEZ, ANATOLIO T
	JACOBS, MARC R
	JENSEN, PAUL D
	KATICICH, BARBARA J
	LABARBERA, JOHN S
	LEWIS, LANCE J
	LINCOLN, JASON
	LYNN, JOHN P
	MARTIN, AMY M
	MARUCCI, TON
	MIRASSOU, Y K
	MITCHELL, TIMOTHY W
	MORISHITA, MARY K
	MORTON, JOHN R
	NORTHON, LAVERNE V
	OHIGGINS, HELENE
	ONLY THE BEST
	PINTO, LOUISE
	RUSSELL, JOHN N
	SEIXAS, MICHAEL L
	SHANNON, BEN
	SLATER, MICHAEL E
	THERRIEN, AGNES R
	TIMPE, MIKE
	TORRES, ROBERT
	TUCCI, JOSEPH M
	UNEN, VAN W
	UVANEY, JON
	VANUNEN, ROBERT

Target Street	Cross Street	Source
✓	-	Cole Information

OKA RD 2010 (Cont'd)

14685	VILCINS, IMANTS O
14700	LOS GATOS SWIM & RACQUET CLUB
14702	GLEAVE, CHAD
14800	YUKI, JASON S
14840	OCCUPANT UNKNOWN,
14850	AMIRI, SHARRUKIN
	BITTNER, NANCY C
	CARP, JAMES
	CHAMBERS, LORI
	CHAN, YUHMEI J
	CORDERO, BEN C
	DAFFER, MARCI O
	DAVIS, JOAN G
	DOMJANCIC, MARIANNE
	ELLIOTT, DEREK
	FARHNER, LARRY R
	FJELSTAD, MICHAEL M
	GILLIS, SANDI
	GOMEZ, GARY T
	HERRICK, MATHEW
	JAZAERI, SAYYED R
	KANG, DAVID I
	KEAMA, CHERYL K
	LANDMARK APARTMENTS
	LEDEANNA, Y
	LESPAGNARD, MANU
	MILLER, JULIA
	MIRSHAFIEI, MEHRI
	NEWBERRY, HEATHER S
	SHERMAN, JANE L
	VENKATESALU, RAJKUMAR
	VENTURA, REGINA
	VOLOSSKIY, ALEXEY
	WALTERS, RON E
	WARD, TONI
	WROBEL, ERIC
	WYLIE, KATHERINE
14855	ADDISON PENZAK JEWISH COMM CTR
	APJCC SILICON VALLEY
	JEWISH COMMUNITY CTRSAN JOSE
	JEWISH COMMUNITY NEWS
	JEWISH FAMILY SVC
	JEWISH FEDERATION
	MORE PHYSICAL THERAPY INC
14930	AKCA, YUSUF
	BOERSEN, AMY
	DAVIS, LISA Z
	DEFERRARI, ERNEST L
	DONNELLY, WILLIAM J
	FARRINGTON, MATTHEW J

Target Street	Cross Street	Source
✓	-	Cole Information

OKA RD 2010 (Cont'd)

14930	GILLI, YOSHIKO D
	GRAY, MARK
	HAMMER, SHARON
	HARTEL, JONATHAN J
	HASEGAWA, ATSUSHI
	HUMBLE, JENNIFER
	JACK, BRANDY
	JUDD, ANN
	KEARNEY, MATT
	KELETE, ATOBREHAN K
	KUZMINA, ALBINA S
	LA MAR APARTMENTS
	LEMAT, ANDREW
	LOPEZ, GEORGE L
	MACKIE, ANDREW W
	MAI, EILEEN
	MALDONADO, MICHAEL
	PUCCINE, PATRICIA A
	PUCINE, P
	REGAN, JASON
	REGAN, SUZANNE M
	SANTANA, AMY
	SYLVESTER, MICHAEL
	TRAN, MINH
	WILLIAMS, THOMAS K
	ZEINY, ALI A
	ZHANG, JOE

Target Street	Cross Street	Source
-	✓	Cole Information

LARK AVE 2005

16601	HO, UT
	PEREZ, BETTY
	QUINN, KEVIN
	SMITH, DARREL R
	WIDMAN, LINDA S
16603	COON, ERIN
16605	LOS GATOS OAKS CONVALESCENT HOSPITAL
16615	DRUCKER, DOUGLAS
	FROSHMAN JEFFREY S CPA
	LEWANDOWSKI DIANE M CPA
	MATON MANAGEMENT LLC
	VASONA FINANCIAL GROUP
	WESTERN MANAGEMENT GROUP
	WMG INC
16735	FOUNTAIN LIFE WORSHIP CENTER
16780	PACEWORKS
	PRINCETON CAPITAL
	RMR FINANCIAL
16795	ACTONA
	CTO CO FOUNDER
	FIRETIDE INC
	HEMMINGS, TRENT
	MARY BADAME
	RMR FINANCIAL
	ROVING NETWORKS INC
	SGC SECURIAN GROUP OF CA
	TRADEPUB COM
	TRANSEDA

Target Street	Cross Street	Source
✓	-	Cole Information

OKA RD 2005

14685	ALBERS, JOEY
	ANTON, LARRY A
	BECKSTEAD, CHAD D
	BERBIG, ELIZABETH
	BIGGERSTAFF, BRIAN P
	BOHLE, JOHN F
	BONNIE VIEW PARK
	BOOK CAFE & SMALL INDULGNCS
	BRAZIL, MARTIN J
	BROWN, BARBARA J
	CARRILLO, FERNANDO
	COHEN, NANCY W
	COLE, JACK R
	DIMAIO, SAM A
	ESMAEILI, FARIBA
	FARNSWORTH, JUDY A
	FOLLETTE, CLEO M
	FREAS, JOYCE L
	GREENWELL, PAULA
	GUERRA, RUBEN O
	HALL, JON A
	JACOBS, MARC R
	JENSEN, PAUL
	KATICICH, BARBARA J
	KUNIS, JOHN
	LABARBERA, JOHN S
	LAKE, BECKY R
	LINCOLN, LOUISE W
	LYNCH, CATHERINE M
	LYNN, JOHN P
	MARTIN, MICHELLE
	MARUCCI, TON
	MILLARD, RUSSELL K
	MIRASSOU, ADAM T
	MITCHELL, KARI J
	NORTHON, LAVERNE V
	OLSEN, W
	PARRISH, DEBORAH M
	PATTON, KIMBERLY A
	PHENEGER, AMY
	PICAZO, JOSE L
	RAMIC, ZLATA
	RIOJAS, SCOTT J
	SARGENT, TAWNYA L
	SCAMEK, SCOTT
	STEINER, BILL G
	THERRIEN, AGNES R
	TOMPKINS, DANIEL D
	TORRECILLAS, ROCKY M
	TUCCI, JOSEPH

Target Street	Cross Street	Source
✓	-	Cole Information

OKA RD 2005 (Cont'd)

14685	TURNER, T
	UVANEY, JON
	VANDERHOEF, ROB S
	VILCINS, IMANTS O
	WILLIAMS, JUSTINA J
	YI, IN H
14700	LOS GATOS SWIM & RACQUET CLUB
14702	GLEAVE, CHAD
14800	OCCUPANT UNKNOWN,
14840	RENNINGER, LESTER L
14850	AMIRI, SHARRUKIN
	BROOKS, LAURA
	BUCHANAN, KRISTAN L
	CASTILLO, CHRIS R
	DAVIS, JOAN G
	FALK, STEVEN R
	FARHNER, LARRY R
	GASSMANN, EDITA
	GILL, MICHAEL J
	GILTRAP, WILLIAM M
	HERRICK, MINDY E
	HILL, REBECCA F
	KANG, DAVID I
	KELLEY, ROBERT G
	KLINE, MARY B
	LANDMARK APARTMENTS
	LESPAGNARD, MANUELA
	MCNEES, KEVIN
	MICKWEE, JENNIFER
	MOHAMMADIAN, ARDESHIR
	MOSES, ROY J
	NAANAA, IRINA B
	PACIFIC CAFE & ROASTING CO
	PAONE, MICHAEL P
	PASTUSZKA, LUCYNA
	PC DELIGHT
	REDONDO, RICK D
	SANDSTORM SEMICONDUCTOR INC
	SCHERMAN, TRACY E
	TAIMASON, F
	TANAKA, JENNIFER L
	TENA, MARIA V
	VANGORDER, J
	VILLEGAS, INES
	WALTERS, RON E
	WROBEL, ERIC
14855	ADDISON PENZAK JEWISH COMMUNITY
	JCC SUMMER CAMP
	JEWISH COMMUNITY CENTER OF GREATER S
	SERVING COMMUNITY IS WHAT APJCC

Target Street	Cross Street	Source
✓	-	Cole Information

OKA RD 2005 (Cont'd)

14855 SJJFF
14930 ALLEN, HUBERT B
ALTEKAR, SHIRISH A
AMIRI, MARDIN
ANDREWS, DOREEN
BAI, ZHONGZE
BILINSKI, CARA D
BOERSEN, AMY
BROJAKOWSKI, JOSEPH
DEFERRARI, ERNEST L
DEGROOT, BARBARA
GEDDIE, JUSTIN
GIVARGINZNIA, ARTHUR
GIVARGIZNIA, CECILIA
GODOLPHIN, LIONEL J
GONZALES, RICHARD
GRAY, MARK
HICKEY, JAMES
KELETE, ATOBREHAN K
KUBIE, PEARL R
KUZMINA, ALBINA
LG COMMUNITY DVD
LOPEZ, GEORGE L
MACKIE, ANDREW
MAHER, NATHAN
MAYES, MIKE
MONTECITO, STEVEN
NETWORK ADMINISTRATION
OKA INVESTORS
PAVLOVA, MARINA
REGAN, SUZANNE M
RIVIERE, ELENA B
SALAZAR, FRANK S
SALCEDO, FERNANDO
SHEPARD, C
SHOLLY, JUANA G
TRAN, MINH
WILLIAMS, THOMAS
ZHAO, QING

Target Street	Cross Street	Source
-	✓	Cole Information

LARK AVE 2000

16601	BALBAS, ARIEL L
	BUNGAY, RENATO
	LARK AVE APARTMENT
	MENDIZABAL, S
16603	RIDLINGHAFER, JARRETT N
16605	LOS GATOS OAKS
	LOS GATOS OAKS CONVALESCENT HOSPITAL
16615	COAST COMMERCIAL BANK
	COMPREHENSIVE FINANCIAL MANAGEMENT CORPORATION
	DECARO BARBARA MORLAN ATTORNEY AT LAW
	DELIOTTE & TOUCHE CONSULTING LLC
	DELIOTTE & TOUCHE LLC
	F B A PROPERTY
	FOOTHILL SECURITIES TOWNE FINANCIAL
	FROSHMAN & BILLINGS ACCOUNTING CORPORATION
	GENETTI GREGORY S CPA
	GREEN FINANCIAL & INSURANCE SERVICES
	GREGORY S GENETTI CPA
	HORNER MARY A CPA
	LAMPROS & ROBERTS MANAGEMENT SERVICES
	LAURIDSEN ASSOCIATES
	MOHR MICHAEL G
	OMIDYAR, PAMELA K
	SACKS MASON J ATTORNEY
	SHEPARD ASSOCIATED
	TODD, VERNON G
	TOWNE FINANCIAL SERVICES INCORPORATED
	WESTERN MANAGEMENT GROUP
16735	ASSEMBLY OF GOD CHURCH
	FIRST ASSEMBLY OF GOD
16780	G2 NETWORKS INCORPORATED
	VENVELL, M P
	WESTERN PRESS & COPY CENTER
16795	A CENTER FOR SOLUTIONS
	ADAMS AUDREY MD
	ALLEN RONALD INSURANCE AGENCY
	BADAME, MARY J
	BAGGETT MICHAEL E MD INCORPORATED
	BAKER RODNEY MD
	BARTON RICHARD M MD INCORPORATED
	BEAUPRE PAUL MD
	BERLINBERG CRAIG MD
	BLOCK STEVEN MD
	BROWNING BRENT MD INCORPORATED
	CHANG, HARRY
	CHOW FRANKLIN MD
	CLARK RICHARD MD
	COLLINS MARY JANE MD
	DIRECT MORTGAGE
	DUC DEVELOPMENT COMPANY

Target Street	Cross Street	Source
-	✓	Cole Information

LARK AVE 2000 (Cont'd)

16795 ELECTRIC EDITOR INCORPORATED
FAYARD ALFRED A MD INCORPORATED
FLORY TERESA MD
GROUP ANESTHESIA SERVICES
HOLLEY FREDERICK MD
J D MERCER & COMPANY
JACKSON STEPHEN MD
LAMPE GEORGE MD
LEE CARRIE MD
LENAHAN JOHN E MD INCORPORATED
LIU DENNIS MD
LOEFFLER INSURANCE AGENCY
MACDONELL MD
MORF ORGANIZATION THE
MORF ORGN THE MEDICAL BLLNG CMPTR SERVICE DIVISON
NOSE PETER MD
OLSON ALLAN MD
PAULUAN MUNIR MD INCORPORATED
PUALLUAN MUNIR MD INCORPORATED
REIMNITZ JOEL MD
SCOTT PHILIP L B MD
SINGLETON MARK MD
SMITH HENRY R MA
SPYGLASS INCORPORATED
STATE FARM INSURANCE COMPANIES AGENTS
STEIN RUTH MD INCORPORATED
STEVE PEACOCK INSURANCE
TRANSEDA INCORPORATED
VASIL CHRISTOPHER MD
VERNACI PETER A CPA
WEISSMAN DAVID MD INCORPORATED

Target Street	Cross Street	Source
✓	-	Cole Information

OKA RD 2000

14685	ALBERS, JULIE
	BECKSTEAD, CHAD
	BENAVIDES, JOYCE
	BENNETT, AL
	BERBIG, E
	BIGGERSTAFF, BRIAN P
	BONNIE VIEW PARK
	CARLBERG, L U
	CARMICHAEL, LANCE
	CHRISTOFFERSON, DEAN
	CLISH, JOURDAN
	COLE, JACK
	DALEY, DAVID J
	GELBACH, JOAN D
	GRANT, JAMES R
	GUERRA, RUBEN O
	HALL, JON A
	HARRIS, DONALD A
	HILL, M A
	HOGE, L
	JENICHEN, STEVE
	JONES, KEVIN F
	KUNIS, JOHN
	LAKE, BECKY R
	LAZZERI, RICHARD J
	LYNCH, C M
	MARUCCI, TONI
	MAUPIN, DANN R
	MOLNAR, ANDREA
	NORTHON, LAVERNE R
	OLSON, STEVEN C
	PACIONI, LORETTA
	PARKER, DIANNE
	PARRISH, DEBORAH M
	RAMSEY, RUSS R
	RECKO, HOLLY
	ROGERS, F
	ROGERS, HAZEL
	STEINER, BILL
	THERRIEN, AGNES
	TOMPKINS, DANIEL
	TOTH, GABOR
	VILCINS, IMANTS
14700	LOS GATOS SWIM & RACQUET CLUB
	OCCUPANT UNKNOWN,
14850	ANDEEN, D G
	ANDERSON, JOHN H
	ATALIK, M
	BUHL, LAURA L
	BURCH, EMILY

Target Street	Cross Street	Source
✓	-	Cole Information

OKA RD 2000 (Cont'd)

14850	CANE, CANDACE
	CARENZA, J R
	CHANEY, ANITA
	DARNER, CHRIS J
	DAVIS, JOAN
	FARHNER, LARRY
	FLAHERTY, JOHN
	HARMON, MICHAEL
	HOJAS, KAREN
	JAMIESON, LAURA
	MACLAREN, ALICIA M
	MAGOFFIN, MELANIE A
	MONTANEZ, NACIM
	OSULLIVAN, MICHAEL
	PETERSON, HARRY
	REINEKING, NANCY
	REUTER, GREGORY D
	SHERMAN, JANE L
	SHRIVASTAVA, SONNY
	TANAKA, J
	TATE, WILLIE G
	WASSENBERG, K L
	WOLLENWEBER, JOSEPH
14855	DANCE EFFECTS
	JEWISH COMMUNITY PRE SCHOOL DAY CARE
	JEWISH FAMILY SERVICE
	JEWISH FEDERATION OF GREATER SAN JOSE
	KIDSPACE ENRICHMENT PROGRAM
	UNITED JEWISH APPEAL
	WEISSBART, CHERYL H
	YAVNEH DAY SCHOOL
14930	ALTEKAR, SHIRISH
	ANDERSON, RYAN R
	BETGOWARGIS, ISAAC A
	CLARK, ALI
	COSTA, JAY R
	ESHLEMAN, REBEKAH
	GODOLPHIN, LIONEL
	GORMAN, STEPHEN
	HA, SON T
	HAAG, CYNTHIA D
	HAMMOND, TOM
	HOWELL, SEAN
	JOHANSSON, JAY
	LAMAR APARTMENTS
	MACKIE, ANDREW
	NASIRI, ROXAN
	OLSON, PAUL D
	OVERHOLSER, JILL
	REDDICK, GERALD E

Target Street	Cross Street	Source
✓	-	Cole Information

OKA RD 2000 (Cont'd)

14930	ROJE, LISA M
	RUEBENSON, W B
	SAGER, LARRY W
	WEINER, L S
	WHINERY, P A

Target Street	Cross Street	Source
-	✓	Cole Information

LARK AVE 1995

16601	BELLIZZI, DAVID
	COBANGBANG, ED
	LARK AVENUE ARPARTMENTS
	LOS GATOS OAKS
	WILSON, ERIC
16603	OCCUPANT UNKNOWNN
16605	LATIMER, AUDREY
	LOS GATOS OAKS CONVALESCENT
16615	BAKER, DOLORES C
	COMPREHENSIVE FINANCIAL SVC
	FBA PROPERTY
	FRED BOOKEY & ASSOC
	FROSHMAN & BILLINGS ACCOUNTING
	GENETTI, GREGORY S
	GREGORY S GENETTI
	LAMPROS & ROBERTS MANAGEMENT
	MASON J SACKS
	MASON J SACKS INC
	MOHR, MICHAEL G
	NIEHAUS & ASSOC
	PLANNERS MORTGAGE
	RAUH GOOD DARLO & BARNES ASSOC
	SHEPARD ASSOCIATED
	SHEPARD, LAUREL
16733	HULT, LINDA
16735	ASSEMBLY OF GOD CHURCH
	OCCUPANT UNKNOWNN
16773	HULT, L
16780	INTERMEC WEST INC
	WILLIS, GARY W
16795	ADVACARE
	ALFRED A FAYARD MD
	ALLAN OLSON MD
	ANDY MARGHERITA MASONRY INC
	ARTCLIFF PROPERTIES
	BECKER, JOHN
	BIMILLENIUM
	BRENT BROWNING MD
	CRAIG THOMAS MD
	DAN MAYCLIN PHD
	DAVID WEISSMAN MD
	DIRECT MORTGAGE
	ELECTRIC EDITOR INC
	FARMERS INSURANCE GROUP
	FREDERICK HOLLEY MD
	GREEN FINANCIAL & INS SVC
	HALL, JAMES U
	JEROME BLOCK MD
	JOHN E LENAHAN MD
	JOHN F AMBROSE MD

Target Street	Cross Street	Source
-	✓	Cole Information

LARK AVE 1995 (Cont'd)

16795 JOHNSON, MARY B
LAWRENCE ABRUZZINI MD
LEONARD MONTELEONE MD
MARATHON COMPUTERS
MARK MILLER INSURANCE
MARK SINGLETON MD
MARTIN PATERNITI ACCOUNTANTS
MARY BADANE INSURANCE
MAYCLIN, DAN
MICHAEL E BAGGETT MD
MUNIR PUALLUAN MD
NATIONAL FUNDING GROUP
NATIONAL REALTY GROUP
PAUL BEAUPRE MD
PETER YEE MD
PHILIP L SCOTT MD
RICHARD M BARTON MD
RICHARD W CLARK MD
ROBIDART & ASSOC
RODNEY L BAKER MD
ROMAN J OLEYNIK MD
RONALD ALLEN INSURANCE
RUTH STEIN MD
SCOTT, PHILIP L
VERNACI, PETER A
WARREN W ZODROW MD
WILLIAM KLASSON MD

Target Street	Cross Street	Source
✓	-	Cole Information

OKA RD 1995

14685	ALBERS, DOROTHY
	ANTON, DONALD
	BARR, TERRY M
	BECKSTEAD, CHAD
	BENAVIDES, JOYCE R
	BIGGERSTAFF, ROBERT D
	BONNIE VIEW PARK
	BROOK, JOANNE M
	BROWN, BARBARA J
	CARLBERG, L U
	CARMICHAEL, LANCE
	CHRISTOFFERSON, DEAN
	CLISH, JOY A
	COLE, JACK
	FRAYER, EUNICE
	GELBACH, JOAN D
	HALL, JON
	HARRIS, DAVID
	HOGE, L
	JENINCHEN, WERNER W
	KUNIS, JOHN
	LAKE, ALVA
	LAZZERI, RICHARD J
	LEAL, JAMES
	LEGRANDE, E L
	LYNCH, C M
	MASTERS, STUART A
	MEYER, CHARLES E
	MIRASSOU, DEBORAH
	MORRIS, GENE
	NOLTA, J S
	NORTHON, LAVERNE
	PACIONI, LORETTA
	PARKER, DIANNE
	PITTS, RONALD
	RAMSEY, ROCKY R
	RAY, JUDY A
	ROGERS, F
	ROSENBROCK, WALTER
	STEINER, BILL
	STEVENSON, KRISTI
	TAN, KAREN
	THERRIEN, GEORGE A
	UNZNER, CORNELL H
	VILCINS, IMANTS
	WHITE, BRETT
	WIEN, M F
14700	CALIFORNIA REDWOOD PLAYSCAPES
	LOS GATOS SWIM & RACQUET CLUB
14800	YUKI, CAROL S

Target Street	Cross Street	Source
✓	-	Cole Information

OKA RD 1995 (Cont'd)

14840	OCCUPANT UNKNOWNN
14850	CELLAMARE, RICHARD
	LANDMARK APARTMENTS
14855	CAMP SHALOM
	JEWISH COMMUNITY PRE SCHOOL
	JEWISH FAMILY SVC
	JEWISH FEDERATION
	YAVNEH DAY SCHOOL
14930	ALBERT, EMILY
	BOST, WM
	COORPENDER, SUSAN
	DECHAINE, CARLA
	GERRARD, BILL JR
	HANBACK, WILLIAM
	HERRICK, DOUGLAS
	HILL, JULIE A
	JUSTI, JEFFREY
	KIM, YON T
	KUPNESKI, BRIAN A
	LA MAR APARTMENTS
	MARSHALL, DOUG
	MILLER, RICHARD
	PAYNE, ELISSA
	PURSLEY, EDWARD
	ROBERTS, ANNE
	ROTHNEY, TERESA
	SCHLEGEL, JEANINE L
	SHOLLY, STEVEN

Target Street	Cross Street	Source
-	✓	Cole Information

LARK AVE 1992

16601	BUNTON, DAVE
	DOMINGO, ANTHONY
	HUCKABY, KEZIA
	LARK AVE APARTMENT
	SEREMITAR, KRISTEN
16603	RAM ROOFING
	SIERRA EXPRESS
16605	LOS GATOS OAKS HOSP
16615	A M C FINANCIAL
	FROSHMAN&BILLINGS
	LAMPROS&ROBERTS MNG
	MASON ROGER ATTY
	MOHR MICHAEL G
	MOHR, MICHAEL G
	PLANNERS MORTGAGE
	SACKS MASON J ATTY
	SACKS, MASON J
	SWEENEY, JOSEPH M
	TRUE POSITION ENGRG
16735	ASSEMBLY OF GOD CH
	LOS GATOS CH DEAF
16780	INTERMEC WEST INC
	LYNX REAL TIME SYS
16795	ALLEN RONALD INS AG
	ARTCLIFF PROPERTIES
	CARPIO JOVITA M MD
	COMPRESSION TCHNLGY
	CORYPHAEUS SOFTWARE
	DIRECT MORTGAGE
	DOLAN WILLIAM MD
	GENL AMER LIFE INS
	GOLDFIEN STEVEN MD
	HALL JAS U
	HALL, JAMES U
	INTRGRTD MICRO PROD
	JOHNSON MARY BADAME
	MARATHON COMPUTERS
	MARGHERITA A MSNRY
	MARTIN PATERNITI
	NATL FUNDING GROUP
	NORTHN CA TAX CNSLT
	PEACOCK STEVE
	PEARSON JAMES MD
	THOMAS CRAIG MD
	VERNACI PETER A CPA

Target Street	Cross Street	Source
✓	-	Cole Information

OKA RD 1992

14685	ANTON, DONALD
	BIGGERSTAFF, MARILYN
	BONNIE VIEW PARK
	JANICHEN, WERNER
	KUNIS, JOHN
	MIGLIACCI, JOHN
	NOLTA, J S
	PETERSEN, PETER N
	WHITNEY, WILLIAM A
	WIEN, M F
14700	BASELINE INDUSTRIES
	CA REDWOOD PLAYSCPS
	LOS GATOS SWIM&RCQT
14850	LANDMARK APARTMENTS
	PURKEY, A
	WELSH, STUART
	WENNING, D
	WITT, DOROTHY
14855	A THERAPEUTIC MSSG
	JEWISH CMNTY CENTER
	KIDSPACE ENRICHMENT
	UNITD JEWISH APPEAL
	YAVNEH DAY SCHOOL
14930	DECHAINE, CARLA
	HERRICK, DOUGLAS
	HURTADO, YVONNE
	JOHNSON, SUZANNE
	LA MAR APARTMENTS
	ROCHA, WH H
	SMITH, ANTHONY

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

LARK AVE 1985

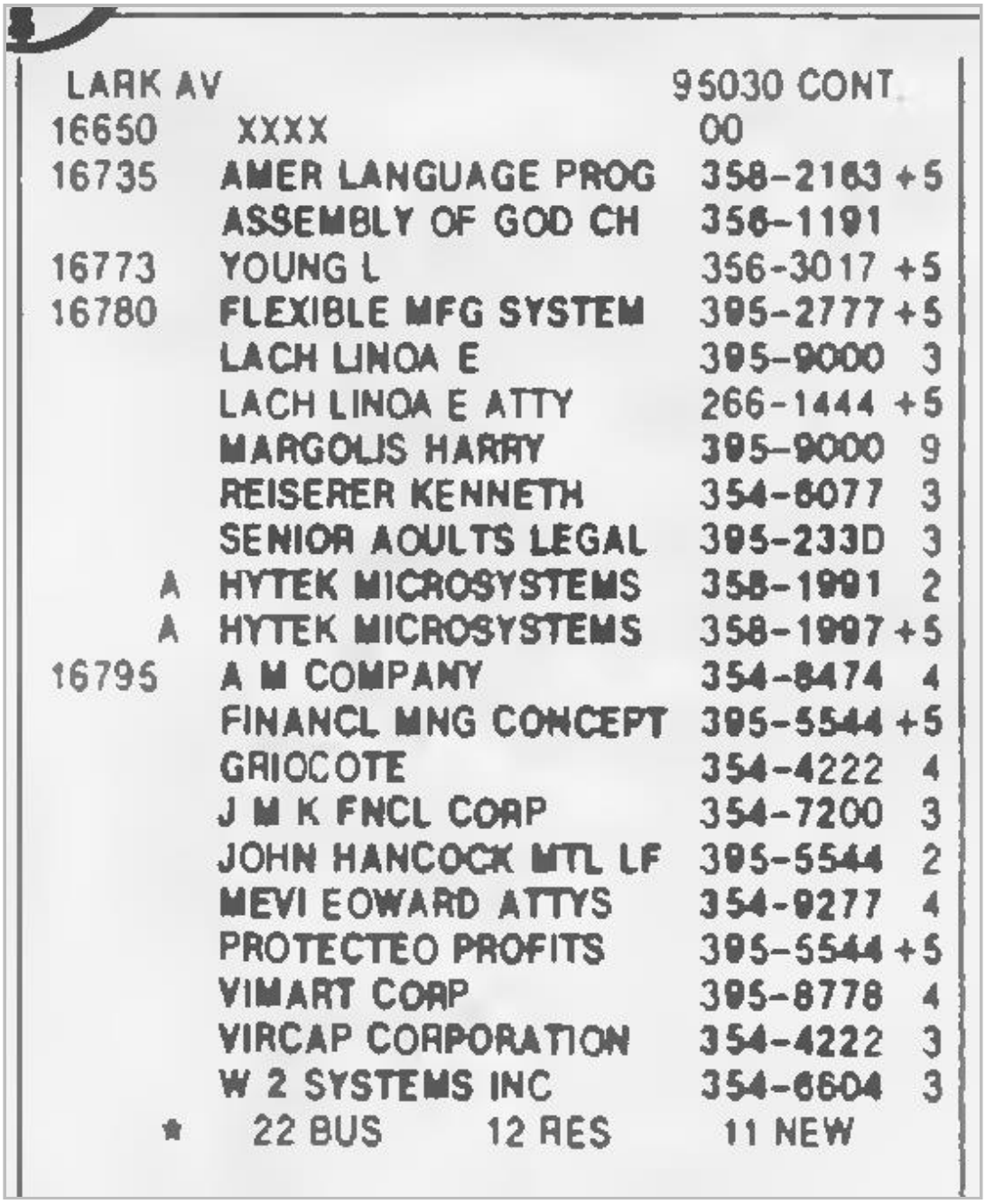


16500	LARK AVE CAR WASH	356-2525
	LARKS NEST	356-2525
16601	APARTMENTS	
	CARY TRACY	356-7785 +5
	JOHNSON JOHNNY	356-1353
	LYONS EVERETT	356-2463 +5
	QUINN KEVIN	356-8315 4
	TOBERG HENRY	356-8270 4
	WAZIRI SEOIOA	356-0311 +5
16601		
16605	LARK MNR CNVLT HOSP	356-9146
16606	DUGAN DAVID T	358-2829 +5
16615	XXXX	00

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Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

LARK AVE 1985



LARK AV		95030 CONT
16650	XXXX	00
16735	AMER LANGUAGE PROG	358-2163 +5
	ASSEMBLY OF GOD CH	356-1191
16773	YOUNG L	356-3017 +5
16780	FLEXIBLE MFG SYSTEM	395-2777 +5
	LACH LINOA E	395-9000 3
	LACH LINOA E ATTY	266-1444 +5
	MARGOLIS HARRY	395-9000 9
	REISERER KENNETH	354-6077 3
	SENIOR AOULTS LEGAL	395-233D 3
A	HYTEK MICROSYSTEMS	358-1991 2
A	HYTEK MICROSYSTEMS	358-1997 +5
16795	A M COMPANY	354-8474 4
	FINANCL MNG CONCEPT	395-5544 +5
	GRIOCOTE	354-4222 4
	J M K FNCL CORP	354-7200 3
	JOHN HANCOCK MTL LF	395-5544 2
	MEVI EOWARD ATTYS	354-9277 4
	PROTECTEO PROFITS	395-5544 +5
	VIMART CORP	395-8778 4
	VIRCAP CORPORATION	354-4222 3
	W 2 SYSTEMS INC	354-6604 3
*	22 BUS 12 RES	11 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

OKA RD 1985



14634	GIARI EILEEN	358-2455	3
14685	BONNIE VIEW PARK		
	BARTELLI ROBT F	356-9271	7
	BECK M P	358-1113	4
	BECKNALL TED	356-1476	0
	BIGGERSTAFF ROBT	358-3622	2
	BOLT ANN	356-8556	1
	BOND M E	356-4476	
	BONNIE VIEW PARK	356-3200	
	BULLERDICK HARRY G	356-5272	
	CARLBERG L U	356-0204	8
	COLE JACK	356-2919	
	COLE JULIA	356-2919	3
	COLVIN J	356-5853	
	COX BETTY H	356-5577	
	DOLANS WALLCOVERING	358-2255	4
	ERCEG JOHN	356-5594	0
	FOWLER FREDERIK	356-7831	4
	FOWLER PHYLLIS	356-7831	
	FRAYER EUNICE F	356-4578	
	FURMAN MARY	356-7579	6
	GARRIGA HUEY	356-6951	
	GILMORE ARLIE	356-4947	2
	GILMORE M RAE	356-4947	
	HAYNES HALL	358-3115	+5
	HUNTER BOYD	356-7510	4
	KARA LUDWIG	358-1241	3
	XING KEITH J	356-9574	4
	KINTSCHER ANNA	356-9004	
	KLINE E E	356-0270	
	LAKE ETHEL	356-8682	0
	LANDIS GLENN L	358-3295	8
	LEGRANDE CHRISTY A	356-9676	
	MASTERS STUART A	356-2871	
	MORRIS GENE	356-7379	2
	MORTON M J	356-7243	3
	NOLTA J S	358-1053	
	NORTHON LAVERNE	356-2256	3
	OSTERMAN L A	356-4416	4
	PACIONI RICHARD	356-8841	0
	PRATT KENNETH E	356-3016	
	RASMUSSEN KNUD	356-8260	
	ROBINSON MAURICE J	356-2425	
	ROGERS F	356-0306	+5
	RUSSELL JOHN E	356-9630	
	SEDIVY LOUIS J	356-4563	7
	SLOCUM A D	356-4798	
	URTON JEANNE	356-6583	
	VILCINS IMANTS	356-8662	
	WALL SANDI	356-2739	2
	WHITNEY WILLIAM A	356-5954	
	WIEN M F	356-7668	
	WOOSLEY MAY	356-5875	
	WOZADLO CHARLOTTE	356-2081	+5
	YARNELL EARL J	356-8826	
14685			
14695	JOHN LOTZ GOLF RNGE	356-4848	
14700	ANDERSON ADVANTAGE	358-2197	9
	BASELINE INDUSTRIES	358-1858	2
	DENEVI RON	358-2578	7
	LOS GATOS FITNSS CT	356-9002	+5
	LOS GATOS SWIM&RCQT	356-2136	
	ONLY PLACE IN TOWNE	356-1102	+5
	RATHSACKS	356-2184	
	TOTAL WRKOUT STUDIO	358-3415	4
14800	XXXX	00	
14840	XXXX	00	
14850	LANDMARK APTS		
	ALLAN E K	356-6866	8
	BODI STEVE	356-3412	+5
	DAVIDSON EVELYN	356-2730	4
	DAVIS J	356-3302	3
	FARHNER ALISON	356-8324	9
	FARHNER LARRY	356-8324	
	GILHOUSEN ALFRED H	356-1086	+5
	HAHN MICHAEL	358-2178	3
	JURGATIS D	356-9992	2
	KINLOCH B	358-2842	1
	LAMBERT LEWIS	356-0038	3
	LUNDIN JACK A	356-8573	2
	LUTZ C M	356-5265	3
	MILLER ROD	358-3174	+5
	MORRIS MARK S	358-2425	0
	MORRIS PEARL	358-2398	7
	NUTINI KIM	356-4820	4
	PIERCE M A	356-5918	
	ROWLAND RALPH	356-9580	2
	SANCHEZ JOE C	356-0659	
	SYMONS WM	356-7390	3
	VALLENTINY TRACY A	356-3788	+5
	WHEELER N	356-5908	4
	YEAMAN ROBT D	356-2665	3
14850			
14855	JEWISH CMNTY CNTR	358-3636	+5
	JEWISH FAMILY SERV	356-7576	+5
	YAVNEH DAY SCHOOL	358-3413	+5
14865	XXXX	00	
14930	LAMAR APTS		
	BERRY JOY	358-1023	
	CLARK MATT	358-1083	0
	CLARK TOM	358-1368	+5
	CUNNINGHAM R	356-1674	3
	DARROW RAY	356-0563	3
	FREYLING E	358-2950	4
	GIST DONALD	356-4650	4
	HERRICK DOUG	356-6359	+5
	HERRICK WM	356-6359	+5
	HILL J A	356-0375	
	LAMARR APARTMENTS	358-2965	9
	LEDUC N	356-4365	4
	OTOOLE M	356-5931	+5
	PAKELE PAUL WM	356-4770	2
	PORTZEL ELAINE	356-2714	3
	SIMPSON JACK	358-2852	1
	STANLEY CYNTHIA	356-4536	+5

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LARK AVE 1981

16500	LARK AVE CAR WASH	356-2525	+1
	LARKS NEST	356-2525	2
16601	APARTMENTS		
	BLAIR JIMMY	356-8139	+1
	BOZZO CHAS	358-1239	0
	JOHNSON JOHNNY	356-1353	
	SCHUBERT NARAYAN	356-8902	+1
A	CROWLEY JAS	356-0138	+1
16601			
16605	LARK MNR CNVLT HOSP	356-9146	
16606	SAVAOA OON	358-2829	0
16615	BRYANT SONVILL B	356-8918	2
16650	DAVIS DONALO A	356-1543	
16735	ASSEMBLY OF GOD CH	356-1191	
16773	WHITMORE JEFF	358-1378	9
16780	BAYS MICHAEL S	395-9000	0
	DUNNETT ROBT L	395-9000	9
	GLADSTEIN RICHARD	395-9000	9
	HARRY MARGOLIS A PR	395-9000	0
	KOJNOK ONDREJ	395-9000	0
	LOPUCKI BRUCE P	395-9000	+1
	MARGOLIS CHATZKY	395-9000	9
	MARGOLIS HARRY	395-9000	+1
	OCONNELL MAUREEN T	395-9000	0
	REISERER KENNETH	395-9000	9
	SCHIAVENZA MARK D	395-9000	9
	SISSON SHELDON M	395-9000	0
	WALKER DORIS BRIN	395-9000	0
A	HY TEK MICROSYSTEMS	358-1991	6
16795	INVERNESS DEVELPMNT	395-3303	+1
	OUADREX CORP	395-1375	+1
	RE MAX LOS GATDS	395-9555	0
	SPANIER MICHAEL	395-9555	+1
	SPANIER&CO REALTORS	395-0555	+1
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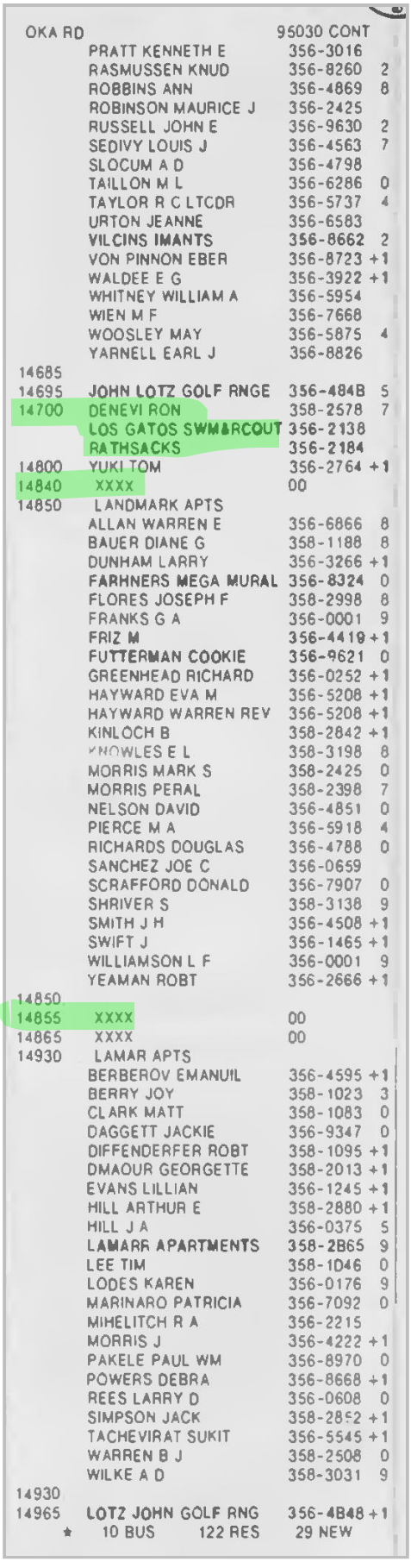
OKA RD 1981

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14685	BONNIE VIEW PARK		
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	BARTELLI ROBERT F	356-9271	7
	BEARDSLEY GARY	356-4826	0
	BECKNALL TED	356-1476	0
	BOLT ANN	356-8556	+1
	BOND M E	356-4476	
	BONNIE VIEW PARK	356-3200	
	BRENNAN MIKE	356-4463	0
	BULLERDICK HARRY G	356-5272	5
	CARLBERG L U	356-0204	8
	COLVIN J	356-5853	3
	COX BETTY H	356-5577	
	DICKINSON M RAE	356-4947	6
	DOWNER DAVID	356-2732	
	EKSTRAND W R	356-8403	
	ELDON D W MRS	356-5423	4
	ERCEG JOHN	356-5594	0
	FISHER MICHAEL	356-4988	
	FRAYER EUNICE F	356-4578	
	FURMAN MARY	356-7579	6
	GARRIGA HUEY	356-6951	
	HEWITT WALLACE W	356-1287	
	JANZEN DAVID A	356-7366	
	JUDSON FRED	358-1566	+1
	KINTSCHER ANNA	356-9004	5
	KLINE E E	356-0270	4
	KNOCH C A	356-6583	0
	LAKE AL	356-8682	0
	LANDIS GLENN L	358-3295	8
	LARE EDNA A	356-4085	5
	LEGRANDE CHRISTY A	356-9676	
	LESLIE PETE	358-1335	+1
	LYEN MADGE F	358-7064	5
	MASTERS STUART A	356-2871	
	MATTHIESSEN B M	358-2548	7
	NOLTA J S	358-1053	5
	PACIONI RICHARD	356-8841	0

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OKA RD 1981



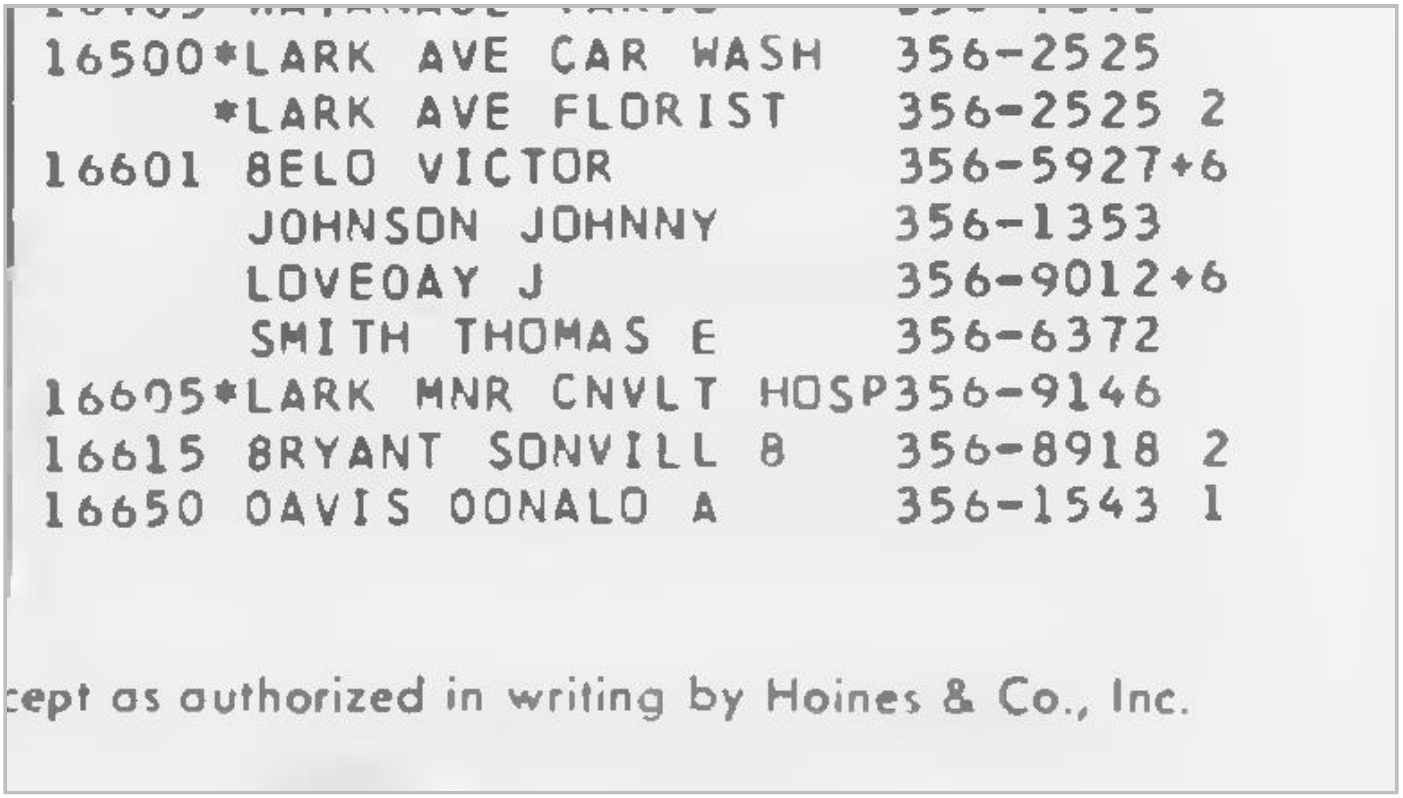
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	PRATT KENNETH E	356-3016
	RASMUSSEN KNUD	356-8260 2
	ROBBINS ANN	356-4869 8
	ROBINSON MAURICE J	356-2425
	RUSSELL JOHN E	356-9630 2
	SEDIVY LOUIS J	356-4563 7
	SLOCUM A D	356-4798
	TAILLON M L	356-6286 0
	TAYLOR R C LTCDR	356-5737 4
	URTON JEANNE	356-6583
	VILCINS IMANTS	356-8662 2
	VON PINNON EBER	356-8723 +1
	WALDEE E G	356-3922 +1
	WHITNEY WILLIAM A	356-5954
	WIEN M F	356-7668
	WOOSLEY MAY	356-5875 4
	YARNELL EARL J	356-8826
14685		
14695	JOHN LOTZ GOLF RNGE	356-4848 5
14700	DENEVI RON	358-2578 7
	LOS GATOS SWM&RCOUT	356-2138
	RATHSACKS	356-2184
14800	YUKI TOM	356-2764 +1
14840	XXXX	00
14850	LANDMARK APTS	
	ALLAN WARREN E	356-6866 8
	BAUER DIANE G	358-1188 8
	DUNHAM LARRY	356-3266 +1
	FARHNERS MEGA MURAL	356-8324 0
	FLORES JOSEPH F	358-2998 8
	FRANKS G A	356-0001 9
	FRIZ M	356-4419 +1
	FUTTERMAN COOKIE	356-9621 0
	GREENHEAD RICHARD	356-0252 +1
	HAYWARD EVA M	356-5208 +1
	HAYWARD WARREN REV	356-5208 +1
	KINLOCH B	358-2842 +1
	KNOWLES E L	358-3198 8
	MORRIS MARK S	358-2425 0
	MORRIS PERAL	358-2398 7
	NELSON DAVID	356-4851 0
	PIERCE M A	356-5918 4
	RICHARDS DOUGLAS	356-4788 0
	SANCHEZ JOE C	356-0659
	SCRAFFORD DONALD	356-7907 0
	SHRIVER S	358-3138 9
	SMITH J H	356-4508 +1
	SWIFT J	356-1465 +1
	WILLIAMSON L F	356-0001 9
	YEAMAN ROBT	356-2666 +1
14850		
14855	XXXX	00
14865	XXXX	00
14930	LAMAR APTS	
	BERBEROV EMANUIL	356-4595 +1
	BERRY JOY	358-1023 3
	CLARK MATT	358-1083 0
	DAGGETT JACKIE	356-9347 0
	DIFFENDERFER ROBT	358-1095 +1
	DMAOUR GEORGETTE	358-2013 +1
	EVANS LILLIAN	356-1245 +1
	HILL ARTHUR E	358-2880 +1
	HILL J A	356-0375 5
	LAMARR APARTMENTS	358-2B65 9
	LEE TIM	358-1D46 0
	LODES KAREN	356-0176 9
	MARINARO PATRICIA	356-7092 0
	MIHELITCH R A	356-2215
	MORRIS J	356-4222 +1
	PAKELE PAUL WM	356-8970 0
	POWERS DEBRA	356-8668 +1
	REES LARRY D	356-0608 0
	SIMPSON JACK	358-2852 +1
	TACHEVIRAT SUKIT	356-5545 +1
	WARREN B J	358-2508 0
	WILKE A D	358-3031 9
14930		
14965	LOTZ JOHN GOLF RNG	356-4B48 +1

★ 10 BUS 122 RES 29 NEW

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LARK AVE 1976



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16500*LARK AVE CAR WASH    356-2525
     *LARK AVE FLORIST     356-2525 2
16601 8ELO VICTOR          356-5927+6
      JOHNSON JOHNNY       356-1353
      LOVEOAY J            356-9012+6
      SMITH THOMAS E       356-6372
16605*LARK MNR CNVLT HOSP356-9146
16615 8RYANT SONVILL 8     356-8918 2
16650 OAVIS OONALO A       356-1543 1
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LARK AVE 1976

..LARK AV 95D30 CONT..

16735 *ASSEM8LY OF GOO CH 356-1191
16773 FAWKNER CHARLES 356-1539
16780 *AOOLPHSON R H 358-1961+6
*CHATZKY MICHAEL G 358-1961+6
*OUNNETT ROBT L 358-1961+6
*FREUOEN8ERG ROBERT 358-1961+6
*GLADSTEIN RICHARD 358-1961+6
*MARGOLIS CHATZKY 358-1961+6
*MARGOLIS HARRY 358-1961+6
*MUEHLEN8ECK RO6 358-1961+6
*POWELL NANCY 358-1961+6
*REISERER KENNETH H 358-1961+6
*SCHIAVENZA MARK O 358-1961+6
*SCHWARTZ HER8 358-1961+6
*SIPORIN T V 358-1961+6
*SOSKIN WILLIAM H 358-1961+6
A*HY TEK MICROSYSTEMS 358-1991+6
* 19 BUS 9 RES 17 NEW

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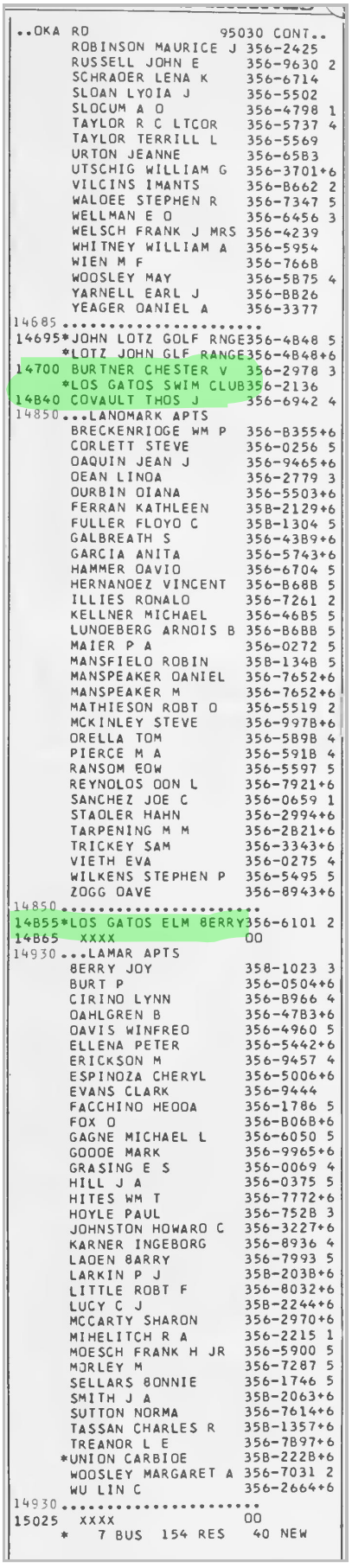
OKA RD 1976

4634	MERGL JOHN	356-7970	2
	PERNET MIKE	356-7970	2
4685	...BONNIE VIEW PK		
	BARRY ELMA KUHNS	358-1149	5
	BECKNALL JAS T	358-2272	+6
	BOLT ANN	356-8556	
	BONO MARY E	356-4476	
	*BONNIE VIEW PARK	356-3200	
	BROTHERS EUNICE	356-793B	4
	BULLEROICK HARRY G	356-5272	5
	COLVIN J	356-5B53	3
	COOK GEOA	358-1217	5
	COX BETTY H	356-5577	
	OICKINSON M RAE	356-4947	+6
	*OICKINSON RUSH	356-4947	+6
	OOWNER OAVIO	356-2732	
	OUSAULT LENA	356-4563	
	EKSTRANO W R	356-8403	
	ELOON O W MRS	356-5423	4
	EVENSIZER J MRS	356-6064	
	FISHER MICHAEL	356-49B8	
	FOLEY JULIA MRS	356-4544	1
	FRAYER EUNICE F	356-4578	
	FURMAN GERALO R	356-7579	+6
	GARRIGA HUEY	356-6951	
	GRAY WALTER R	356-2946	
	HARRIS THOS S REV	358-1053	5
	HENSLEY JOHN R MRS	356-B560	5
	HEWITT WALLACE W	356-12B7	
	HOTCHKISS B E	356-0344	4
	ISAACSON JOE	356-9915	2
	JANZEN OAVIO A	356-7366	
	JENKINS MAX	356-3562	
	KERZ CAMILLA	356-5B43	3
	KINTSCHER ANNA	356-9004	5
	KIRKLAND RAY	356-104B	
	KLINE E E	356-0270	4
	KNOCH CLINTON	356-3029	
	LARE EONA A	356-4085	5
	LEGRANDE CHRISTY A	356-9676	
	LYEN MAOGE F	356-7064	5
	MASTERS STUART A	356-2B71	
	MCKEE WILLIAM F	356-991B	+6
	MELLBERG G L	356-67B2	
	MILLER V M	356-4753	4
	MOELLERING GEO	356-3200	5
	NOLTA J S	35B-1053	5
	OSHAUGHNESSY W E	356-937B	4
	PITCHFORO R	356-6BB9	1
	PRATT KENNETH E	356-3016	
	RASMUSSEN KNUO	356-B260	2

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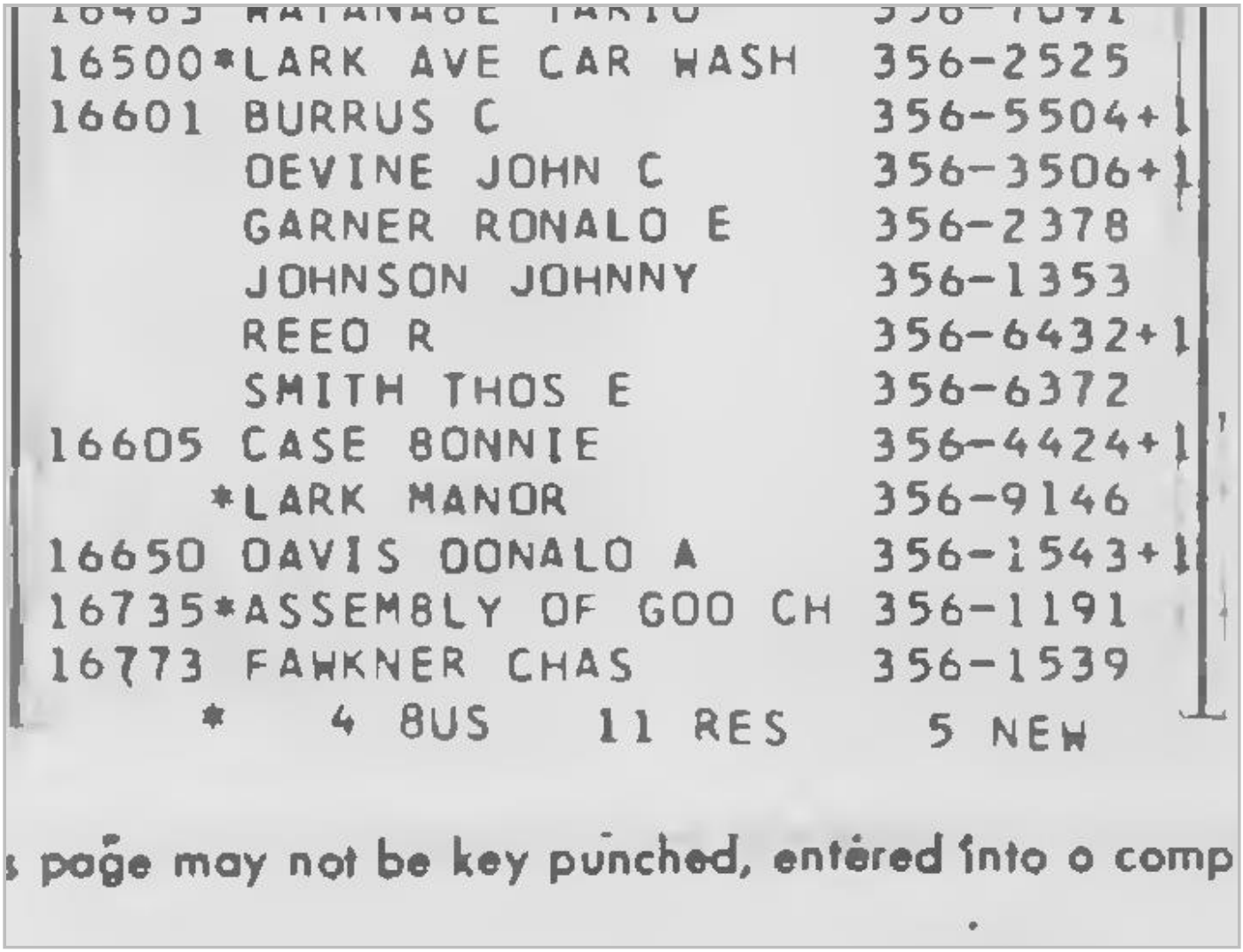
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       RUSSELL JOHN E     356-9630 2
       SCHRADER LENA K    356-6714
       SLOAN LYDIA J      356-5502
       SLOCUM A O         356-4798 1
       TAYLOR R C LTCOR   356-5737 4
       TAYLOR TERRILL L   356-5569
       URTON JEANNE       356-6583
       UTSCHIG WILLIAM G  356-3701+6
       VILCINS IMANTS     356-B662 2
       WALDEE STEPHEN R   356-7347 5
       WELLMAN E O        356-6456 3
       WELSCH FRANK J MRS 356-4239
       WHITNEY WILLIAM A  356-5954
       WIEN M F           356-766B
       WOOSLEY MAY        356-5B75 4
       YARNELL EARL J     356-BB26
       YEAGER DANIEL A    356-3377
14685 ....................
14695*JOHN LOTZ GOLF RNGE356-4B48 5
     *LOTZ JOHN GLF RANGE356-4B48+6
14700 BURTNER CHESTER V  356-2978 3
     *LOS GATOS SWIM CLUB356-2136
14840 COVAULT THOS J     356-6942 4
14850...LANOMARK APTS
       BRECKENRIDGE WM P  356-B355+6
       CORLETT STEVE      356-0256 5
       DAQUIN JEAN J      356-9465+6
       DEAN LINDA         356-2779 3
       DURBIN DIANA       356-5503+6
       FERRAN KATHLEEN    35B-2129+6
       FULLER FLOYD C     35B-1304 5
       GALBREATH S        356-43B9+6
       GARCIA ANITA       356-5743+6
       HAMMER DAVID       356-6704 5
       HERNANDEZ VINCENT  356-B68B 5
       ILLIES RONALD      356-7261 2
       KELLNER MICHAEL    356-46B5 5
       LUNDEBERG ARNOIS B 356-B6BB 5
       MAIER P A          356-0272 5
       MANSFIELD ROBIN    35B-134B 5
       MANSPEAKER DANIEL  356-7652+6
       MANSPEAKER M       356-7652+6
       MATHIESON ROBT D   356-5519 2
       MCKINLEY STEVE     356-997B+6
       ORELLA TOM         356-5B9B 4
       PIERCE M A         356-591B 4
       RANSOM EDW         356-5597 5
       REYNOLDS DON L     356-7921+6
       SANCHEZ JOE C      356-0659 1
       STADLER HAHN       356-2994+6
       TARPENING M M      356-2B21+6
       TRICKEY SAM        356-3343+6
       VIETH EVA          356-0275 4
       WILKENS STEPHEN P  356-5495 5
       ZOGG DAVE          356-8943+6
14850 ....................
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14865  XXXX               00
14930...LAMAR APTS
       BERRY JOY          358-1023 3
       BURT P             356-0504+6
       CIRINO LYNN        356-B966 4
       DAHLGREN B         356-47B3+6
       DAVIS WINFRED      356-4960 5
       ELLENA PETER       356-5442+6
       ERICKSON M         356-9457 4
       ESPINOZA CHERYL    356-5006+6
       EVANS CLARK        356-9444
       FACCHINO HEDDA     356-1786 5
       FOX D              356-B06B+6
       GAGNE MICHAEL L    356-6050 5
       GOODE MARK         356-9965+6
       GRASING E S        356-0069 4
       HILL J A           356-0375 5
       HITES WM T         356-7772+6
       HOYLE PAUL         356-752B 3
       JOHNSTON HOWARD C  356-3227+6
       KARNER INGEBORG    356-8936 4
       LADEN BARRY        356-7993 5
       LARKIN P J         35B-203B+6
       LITTLE ROBT F      356-8032+6
       LUCY C J           35B-2244+6
       MCCARTY SHARON     356-2970+6
       MIHELITCH R A      356-2215 1
       MOESCH FRANK H JR  356-5900 5
       MORLEY M           356-7287 5
       SELLARS BONNIE     356-1746 5
       SMITH J A          35B-2063+6
       SUTTON NORMA       356-7614+6
       TASSAN CHARLES R   35B-1357+6
       TREANOR L E        356-7B97+6
     *UNION CARBIDE       35B-222B+6
       WOOSLEY MARGARET A 356-7031 2
       WU LIN C           356-2664+6
14930 ....................
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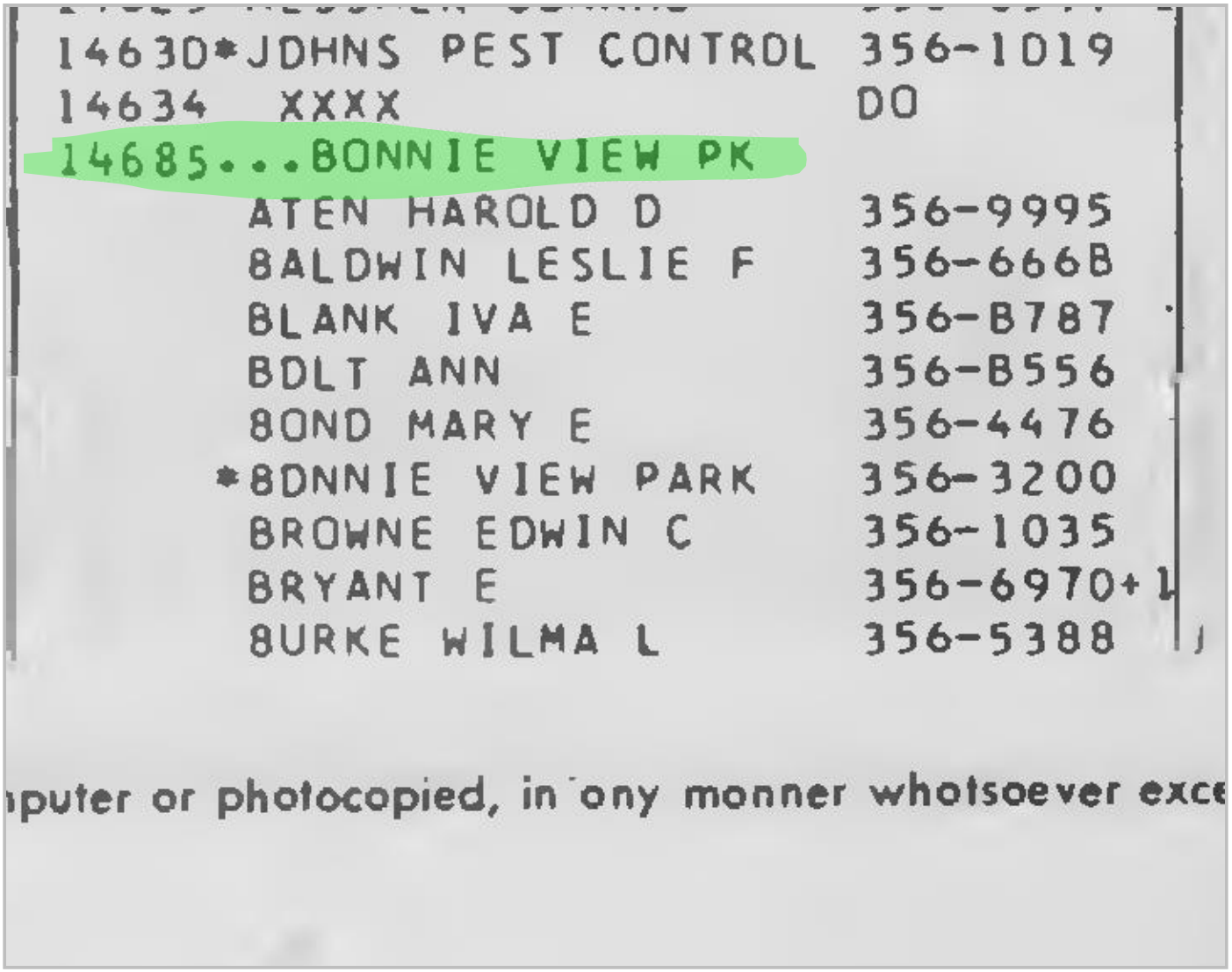


16483 WATANABE TAKIO 356-7091
16500 *LARK AVE CAR WASH 356-2525
16601 BURRUS C 356-5504+1
OEVINE JOHN C 356-3506+1
GARNER RONALO E 356-2378
JOHNSON JOHNNY 356-1353
REEO R 356-6432+1
SMITH THOS E 356-6372
16605 CASE BONNIE 356-4424+1
*LARK MANOR 356-9146
16650 OAVIS OONALO A 356-1543+1
16735 *ASSEMBLY OF GOO CH 356-1191
16773 FAWKNER CHAS 356-1539
* 4 BUS 11 RES 5 NEW

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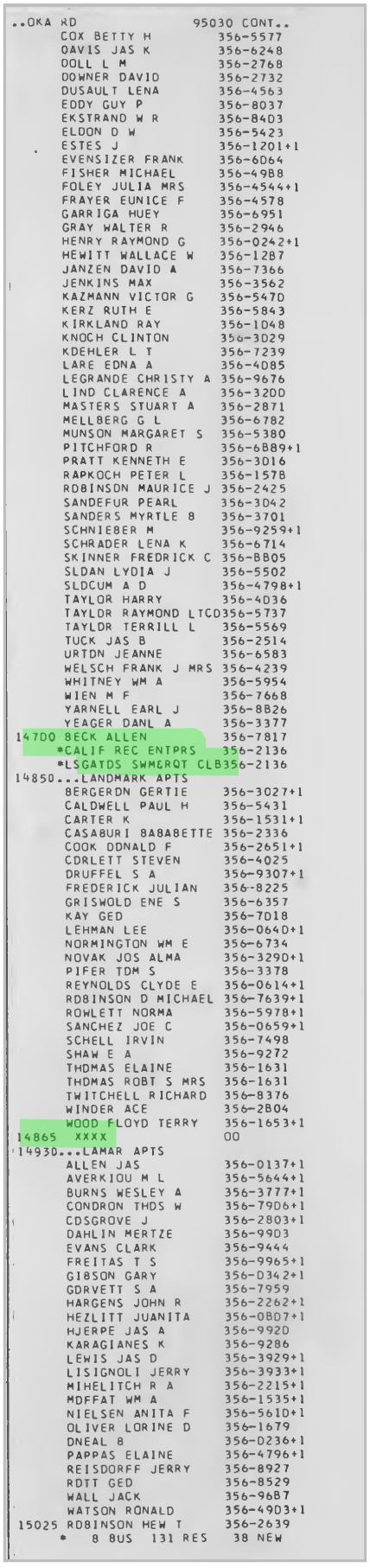


14630*JOHNS PEST CONTROL 356-1019
14634 XXXX DO
14685...BONNIE VIEW PK
ATEN HAROLD D 356-9995
BALDWIN LESLIE F 356-666B
BLANK IVA E 356-B787
BOLT ANN 356-B556
BOND MARY E 356-4476
*BONNIE VIEW PARK 356-3200
BROWNE EDWIN C 356-1035
BRYANT E 356-6970+L
BURKE WILMA L 356-5388

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✓	-	Haines Criss-Cross Directory

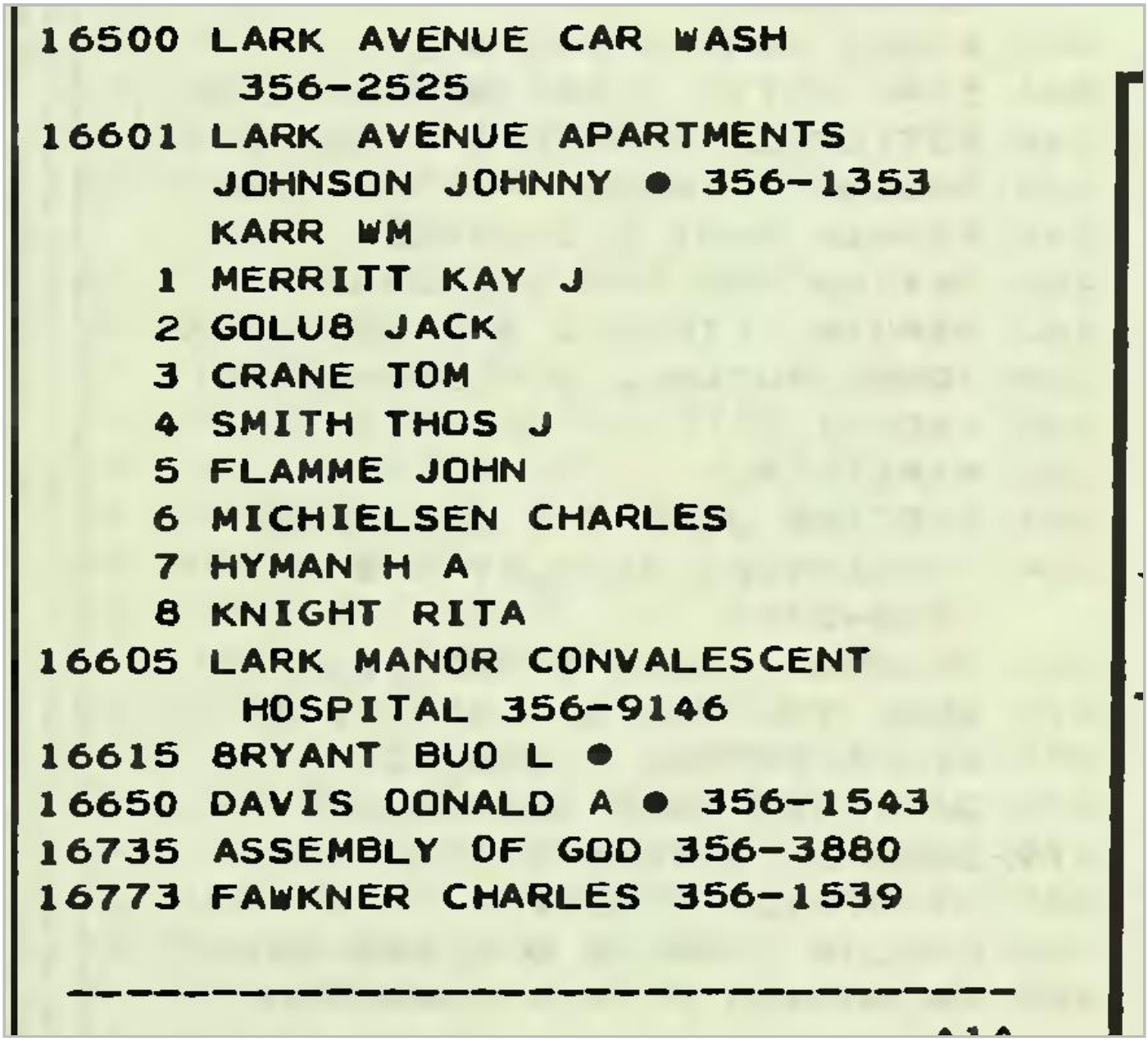
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OAVIS JAS K 356-6248
OOLL L M 356-2768
OOWNER OAVID 356-2732
OUSAULT LENA 356-4563
EOOY GUY P 356-8037
EKSTRAND W R 356-84O3
ELOON O W 356-5423
ESTES J 356-12O1+1
EVENSIZER FRANK 356-6O64
FISHER MICHAEL 356-49B8
FOLEY JULIA MRS 356-4544+1
FRAYER EUNICE F 356-4578
GARRIGA HUEY 356-6951
GRAY WALTER R 356-2946
HENRY RAYMOND G 356-O242+1
HEWITT WALLACE W 356-12B7
JANZEN OAVID A 356-7366
JENKINS MAX 356-3562
KAZMANN VICTOR G 356-547O
KERZ RUTH E 356-5843
KIRKLAND RAY 356-1O48
KNOCH CLINTON 356-3O29
KOEHLER L T 356-7239
LARE EONA A 356-4O85
LEGRANOE CHRISTY A 356-9676
LIND CLARENCE A 356-32OO
MASTERS STUART A 356-2871
MELLBERG G L 356-6782
MUNSON MARGARET S 356-538O
PITCHFORO R 356-6B89+1
PRATT KENNETH E 356-3O16
RAPKOCH PETER L 356-1578
ROBINSON MAURICE J 356-2425
SANOEFUR PEARL 356-3O42
SANOERS MYRTLE B 356-3701
SCHNIEBER M 356-9259+1
SCHRAOER LENA K 356-6714
SKINNER FREORICK C 356-BBO5
SLOAN LYOIA J 356-5502
SLOCUM A O 356-4798+1
TAYLOR HARRY 356-4O36
TAYLOR RAYMOND LTCO 356-5737
TAYLOR TERRILL L 356-5569
TUCK JAS B 356-2514
URTON JEANNE 356-6583
WELSCH FRANK J MRS 356-4239
WHITNEY WM A 356-5954
WIEN M F 356-7668
YARNELL EARL J 356-8B26
YEAGER OANL A 356-3377
14700 BECK ALLEN 356-7817
*CALIF REC ENTPRS 356-2136
*LSGATOS SWM&RQT CLB 356-2136
14850...LANOMARK APTS
BERGERON GERTIE 356-3027+1
CALOWELL PAUL H 356-5431
CARTER K 356-1531+1
CASABURI BABABETTE 356-2336
COOK OONALO F 356-2651+1
CORLETT STEVEN 356-4025
ORUFFEL S A 356-9307+1
FREOERICK JULIAN 356-8225
GRISWOLO ENE S 356-6357
KAY GEO 356-7O18
LEHMAN LEE 356-O64O+1
NORMINGTON WM E 356-6734
NOVAK JOS ALMA 356-329O+1
PIFER TOM S 356-3378
REYNOLOS CLYOE E 356-O614+1
ROBINSON O MICHAEL 356-7639+1
ROWLETT NORMA 356-5978+1
SANCHEZ JOE C 356-O659+1
SCHELL IRVIN 356-7498
SHAW E A 356-9272
THOMAS ELAINE 356-1631
THOMAS ROBT S MRS 356-1631
TWITCHELL RICHARO 356-8376
WINOER ACE 356-2B04
WOOO FLOYO TERRY 356-1653+1
14865 XXXX OO
14930...LAMAR APTS
ALLEN JAS 356-O137+1
AVERKIOU M L 356-5644+1
BURNS WESLEY A 356-3777+1
CONORON THOS W 356-79O6+1
COSGROVE J 356-2803+1
OAHLIN MERTZE 356-99O3
EVANS CLARK 356-9444
FREITAS T S 356-9965+1
GIBSON GARY 356-O342+1
GORVETT S A 356-7959
HARGENS JOHN R 356-2262+1
HEZLITT JUANITA 356-OBO7+1
HJERPE JAS A 356-992O
KARAGIANES K 356-9286
LEWIS JAS O 356-3929+1
LISIGNOLI JERRY 356-3933+1
MIHELITCH R A 356-2215+1
MOFFAT WM A 356-1535+1
NIELSEN ANITA F 356-561O+1
OLIVER LORINE O 356-1679
ONEAL B 356-O236+1
PAPPAS ELAINE 356-4796+1
REISOORFF JERRY 356-8927
ROTT GEO 356-8529
WALL JACK 356-96B7
WATSON RONALO 356-49O3+1
15025 ROBINSON HEW T 356-2639
* 8 BUS 131 RES 38 NEW

Target Street	Cross Street	Source
-	✓	Polk's City Directory

LARK AVE 1968



```
16500 LARK AVENUE CAR WASH
        356-2525
16601 LARK AVENUE APARTMENTS
      JOHNSON JOHNNY ● 356-1353
      KARR WM
    1 MERRITT KAY J
    2 GOLU8 JACK
    3 CRANE TOM
    4 SMITH THOS J
    5 FLAMME JOHN
    6 MICHIELSEN CHARLES
    7 HYMAN H A
    8 KNIGHT RITA
16605 LARK MANOR CONVALESCENT
        HOSPITAL 356-9146
16615 8RYANT BUO L ●
16650 DAVIS OONALD A ● 356-1543
16735 ASSEMBLY OF GOD 356-3880
16773 FAWKNER CHARLES 356-1539
```

Target Street	Cross Street	Source
✓	-	Polk's City Directory

OKA RD 1968

OKA LA -FROM LARK AV NORTH 2 WEST
OF SANTA CRUZ FREEWAY

---ZIP CODE 95030
14505 CONNER WM H • 356-2906
14685 BONNIE VIEW MOBILE HOME PARK
356-3200
14700 LOS GATOS SWIM & RACQUET
CLUB 356-2136
14850 LAND MARK APARTMENTS
356-5407
1 ROSE MARY
2 GARCIA CECIL
3 VACANT
4 PADILLA ROBT
5 ORNALES JOSEPH
6 LEMKE STANLEY
7 SCHMID DAVID
8 SCHELL IRWIN
9 CANALES FRANK
10 DONOVAN JACK L
11 MOLLICA ADELE MRS 356-4347
12 WINSLOW H J MRS
13 COCHRANE A I
14 MARLINO RUTH
15 WRIGHT O O
16 MARRANO RUDOLPH
17 BARTHOLIC JAMES
18 SHAW WM
19 LOVELACE B F
20 WOOD TERRY
21 MICHOLS WM

Target Street	Cross Street	Source
✓	-	Polk's City Directory

OKA RD 1968

22 MC MAHAN D E
23 TERRY BARBARA
24 TAYLOR PAUL 356-5407
25 CONVISSER STANLEY
26 SZUSZITSKY MARY
27 SANCHEZ JOSEPH C
28 WARD CHARLES E
29 BOUFFORD PAUL
30 FERNANDEZ M J
31 WELLS JULIE
32 STOUT WM
33 ULRICH LYDIA
34 VACANT
35 FOSTER SAML
36 PIERCE JOSEPH
37 VALENTINE JAMES D
38 YOUNG CAROL
39 MILLER DONALD W
40 LEBLEU RAY
41 VACANT
42 KRATZ DONALD
43 BAIN DARLENE
44 RADKE M R
45 VACANT
46 VACANT
47 NIEFFENEGGER DOUGLAS
48 MILLER PERLE G
14855 BETTY RALPH ELEMENTARY SCH
356-6101
14930 LA MAR APARTMENTS
51 BARSOTTI VERNA
52 SMITH JAMES H
53 HARRIS JAMES
54 SWETT GLEN C
55 BERG ROBT
56 CHAMES GUS
57 VACANT
58 VINYARD ROBT
59 STEINGASSER S S
60 SPECK LORRAINE
61 WARD JOHN
62 SLAPE DARRELL R
63 WILDSMITH DENNIS
64 GUHL WILLARD
65 HANSON HARRY
66 ANDERSON DON
67 DRAGE WM
68 BIRZA RAY
69 GALLEGHER KENNETH H
70 ARGENT JUNE E MRS 356-3253
71 LAYTON W W
72 SHERIDAN W T
73 BULLOCK ROBERTA MRS
74 MARTIN BETTY
75 CAUCUTT DAVE
76 FRANKLIN NANCY
77 KINCAID M
78 O'NEIL JOHN
79 ISACCO M
80 MC CANN JOHN R
81 MC DONALD RICHY M
82 CAVENDER ARLEE
83 DRYSDALE JERRY
84 BOISVERT JERRY
85 REEVES MICHL
86 POLLOCK W R
87 BLANKENBAKER LOUISE
88 SHAW GARY
89 SEZEDELYI LASZLO
90 DAVIS GARY N
91 THOMPSON RAY
92 DENISE JEAN
93 HUDSPETH ALICE 356-4060
94 GILES RICHD A
95 MERESKI ROY
96 HAFFTER JAMES R
97 BEEMAN LEVA MRS
98 MEDDINGS C M

Target Street	Cross Street	Source
-	✓	Polk's City Directory

LARK AVE 1962

16500 Lark Av Car Wash
EL6-5850
16601 Hines Louie L EL6-1773
16605 Lark Convalescent Hosp
EL6-2131
16615 Bryant Bud L ◎
356-1536
16731 Slape Darrell R
Tipton Thos M
EL6-2618
16735 Assembly of God Ch
16773 Leatherman Robt C
356-1892
16793 Bryant Ray J
Biebla Theresa Mrs
EL6-3878

494888

Oka Road

Los Gatos, CA 95032

Inquiry Number: 7680460.4

June 12, 2024

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

06/12/24

Site Name:

494888
Oka Road
Los Gatos, CA 95032
EDR Inquiry # 7680460.4

Client Name:

AEI Consultants
2500 Camino Diablo
Walnut Creek, CA 94597
Contact: Yvonne

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by AEI Consultants were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# 370358
Project: 494888

Coordinates:

Latitude:	37.253697 37° 15' 13" North
Longitude:	-121.961096 -121° 57' 40" West
UTM Zone:	Zone 10 North
UTM X Meters:	592130.94
UTM Y Meters:	4123522.07
Elevation:	265.93' above sea level

Maps Provided:

2021	1953	1889
2018	1947	
2015	1943	
2012	1940	
1980	1919	
1973	1916	
1968	1899	
1961	1897	

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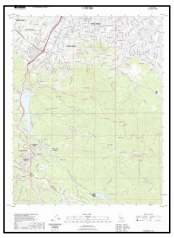
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2021 Source Sheets

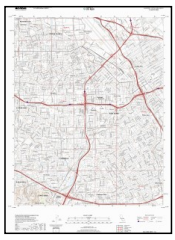


San Jose West
2021
7.5-minute, 24000

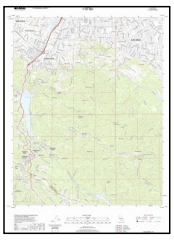


Los Gatos
2021
7.5-minute, 24000

2018 Source Sheets

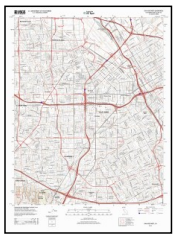


San Jose West
2018
7.5-minute, 24000



Los Gatos
2018
7.5-minute, 24000

2015 Source Sheets

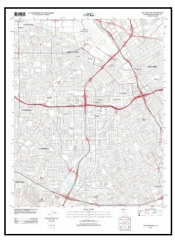


San Jose West
2015
7.5-minute, 24000

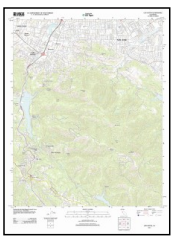


Los Gatos
2015
7.5-minute, 24000

2012 Source Sheets



San Jose West
2012
7.5-minute, 24000

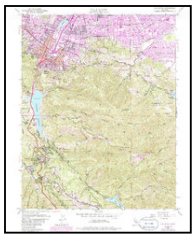


Los Gatos
2012
7.5-minute, 24000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1980 Source Sheets



Los Gatos
1980
7.5-minute, 24000
Aerial Photo Revised 1978

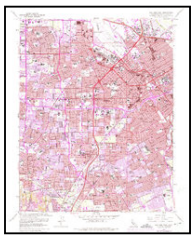


San Jose West
1980
7.5-minute, 24000
Aerial Photo Revised 1979

1973 Source Sheets



Los Gatos
1973
7.5-minute, 24000
Aerial Photo Revised 1973



San Jose West
1973
7.5-minute, 24000
Aerial Photo Revised 1973

1968 Source Sheets

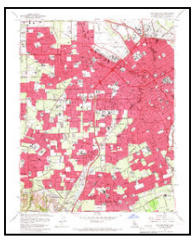


Los Gatos
1968
7.5-minute, 24000
Aerial Photo Revised 1968



San Jose West
1968
7.5-minute, 24000
Aerial Photo Revised 1968

1961 Source Sheets



San Jose West
1961
7.5-minute, 24000
Aerial Photo Revised 1960

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1953 Source Sheets



Los Gatos
1953
7.5-minute, 24000
Aerial Photo Revised 1948



San Jose West
1953
7.5-minute, 24000
Aerial Photo Revised 1948

1947 Source Sheets



LOS GATOS
1947
15-minute, 50000

1943 Source Sheets



Los Gatos
1943
15-minute, 62500
Aerial Photo Revised 1937

1940 Source Sheets

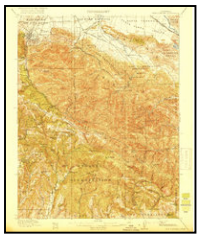


Los Gatos
1940
15-minute, 62500
Aerial Photo Revised 1937

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1919 Source Sheets



New Almaden
1919
15-minute, 62500



Los Gatos
1919
15-minute, 62500

1916 Source Sheets



New Almaden
1916
15-minute, 48000

1899 Source Sheets



San Jose
1899
15-minute, 62500

1897 Source Sheets

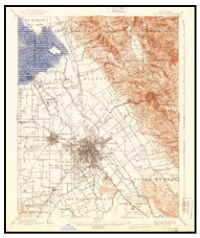


San Jose
1897
15-minute, 62500

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1889 Source Sheets



San Jose
1889
15-minute, 62500

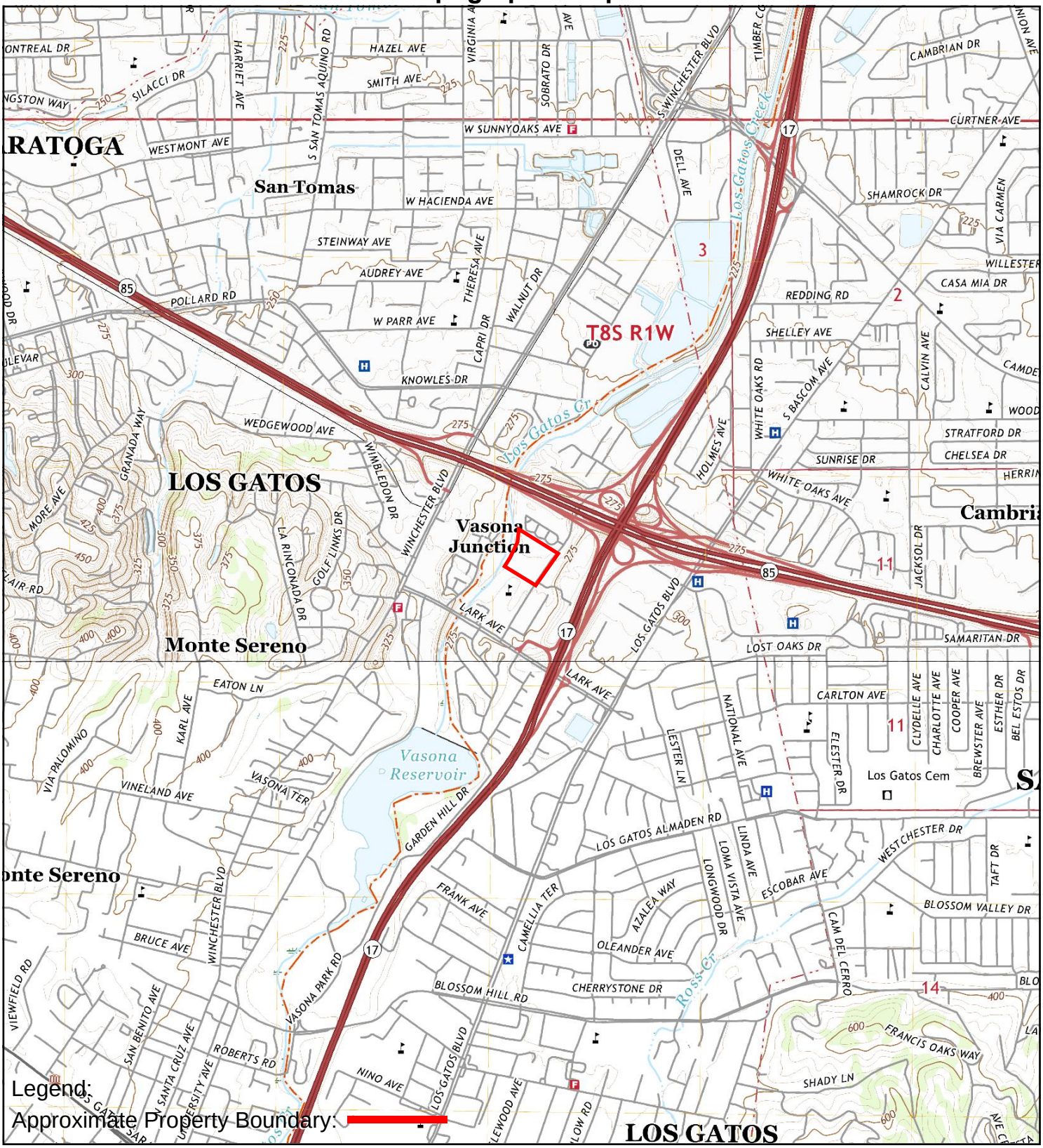
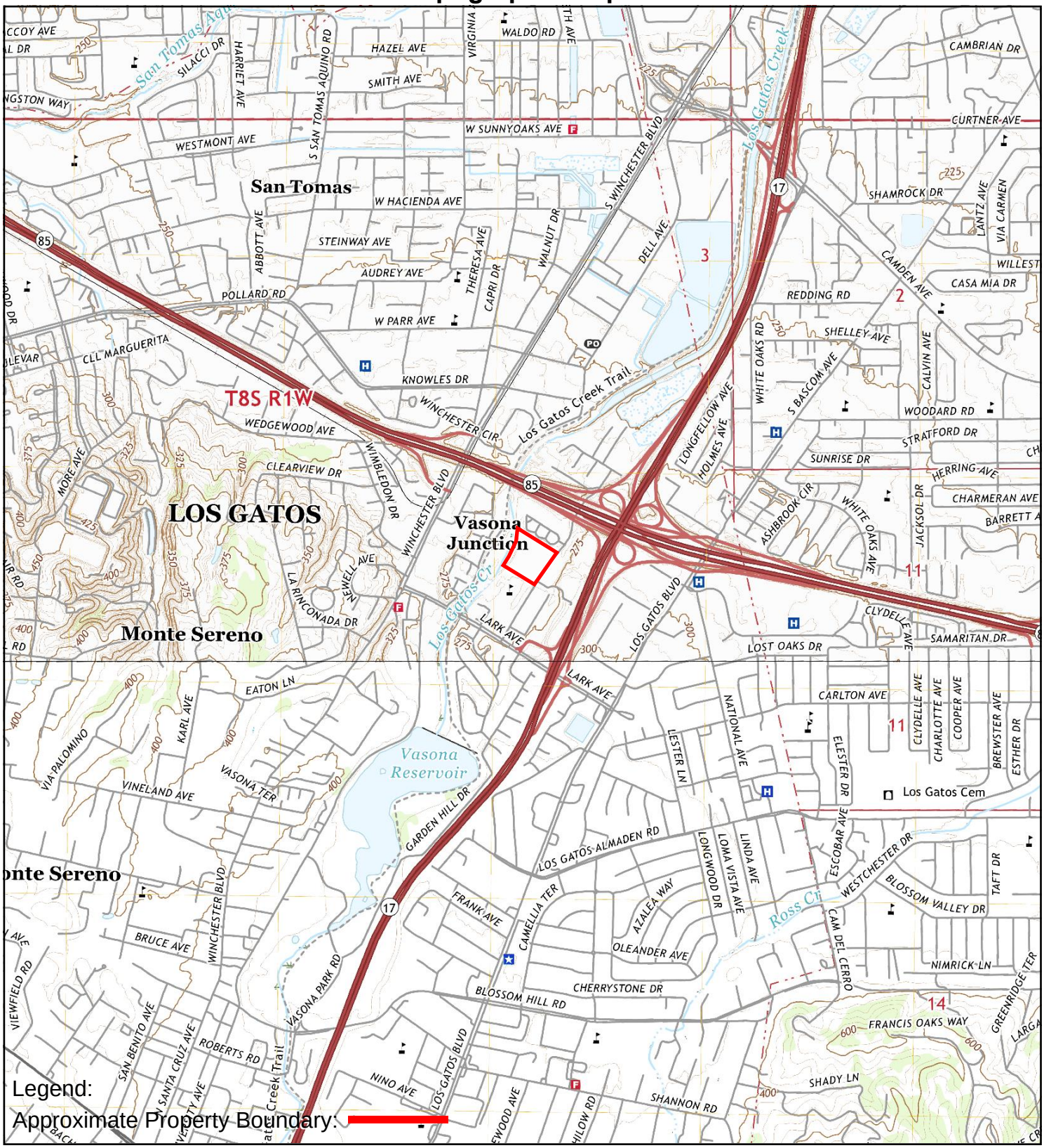


*Figure not OCR compatible.



TP, San Jose West, 2018, 7.5-minute
S, Los Gatos, 2018, 7.5-minute

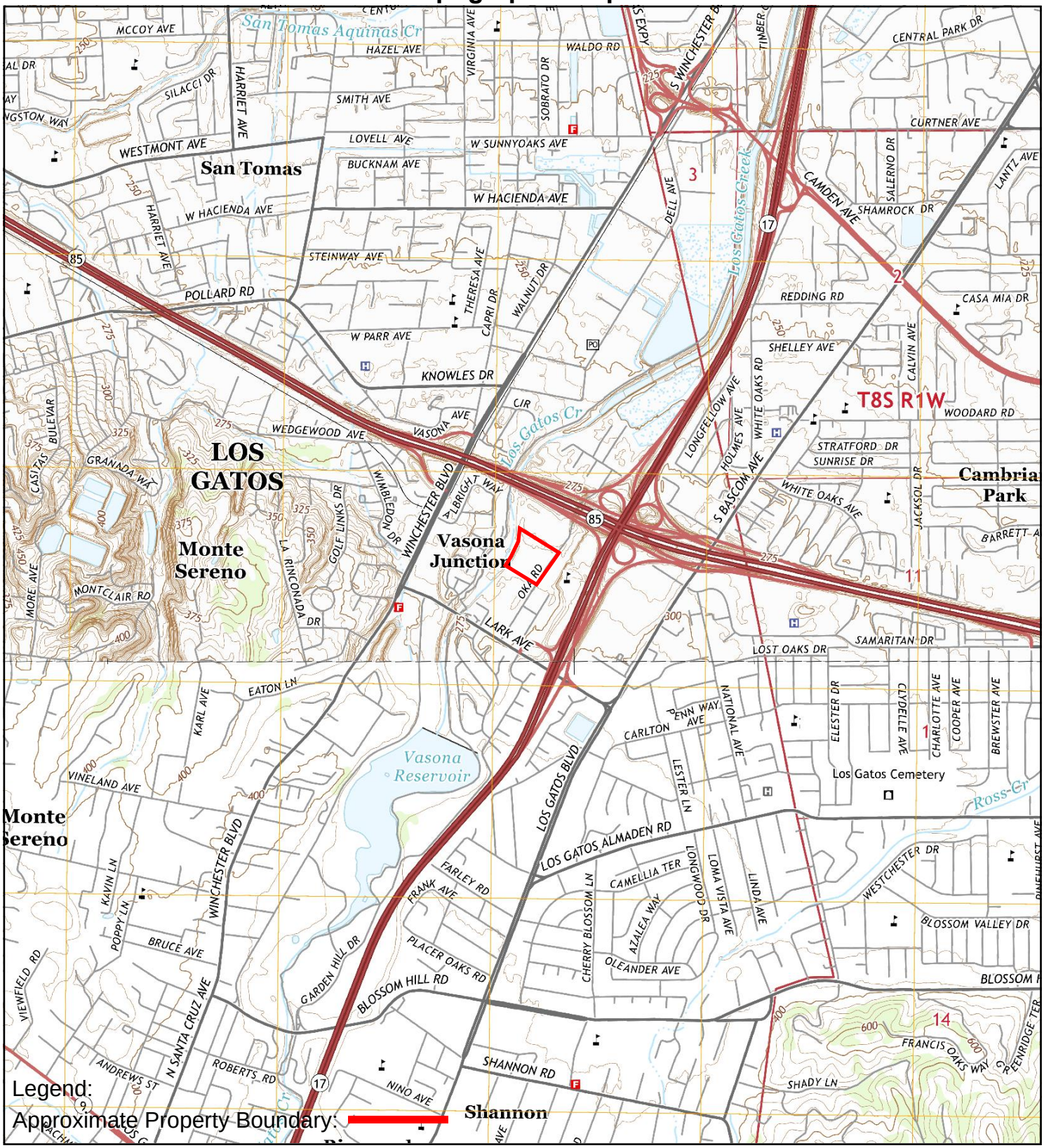
0 Miles 0.25 0.5 1 1.5

N

TOPOGRAPHIC MAP - 2018

AEI

*Figure not OCR compatible.



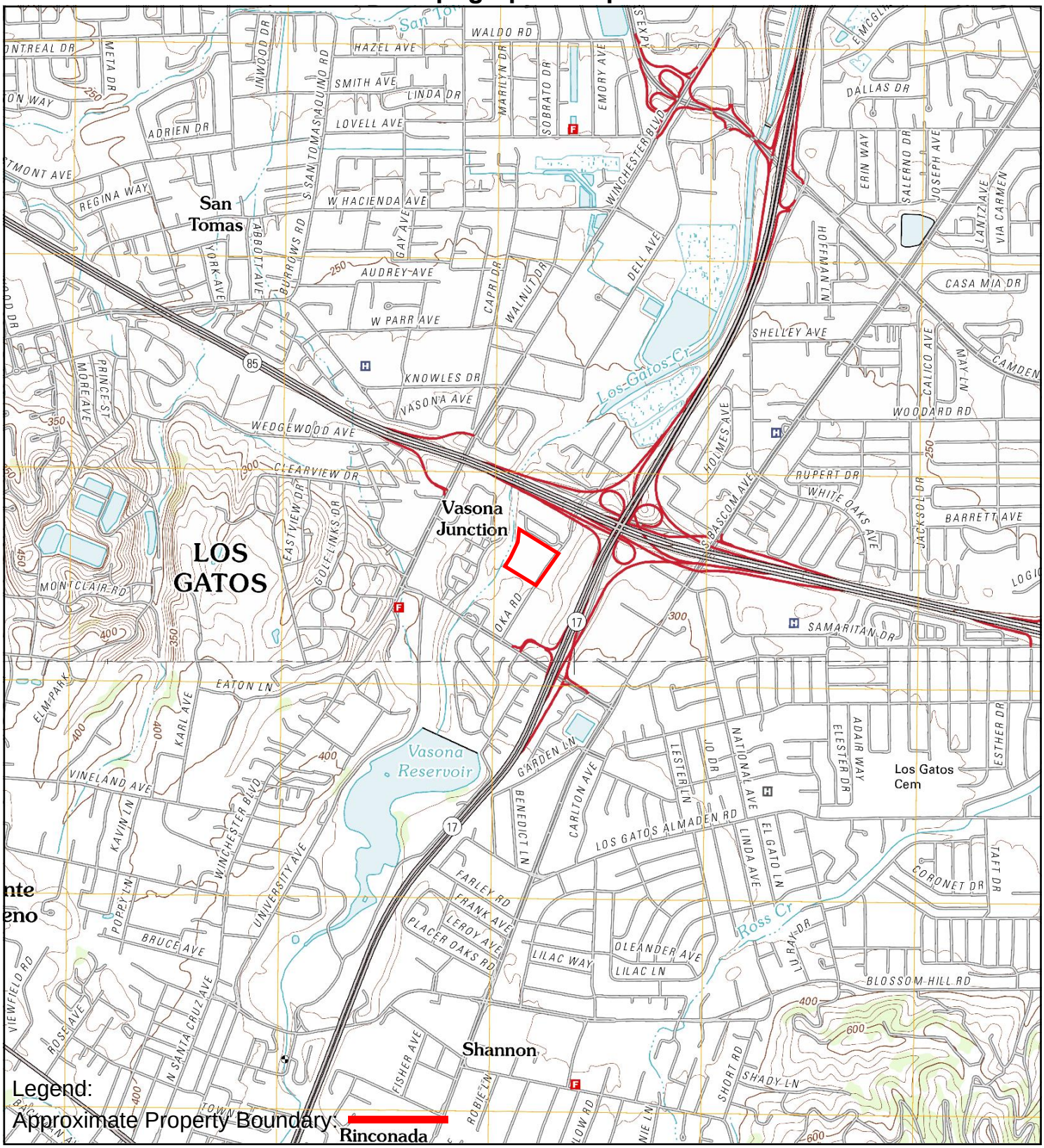
Legend:

Approximate Property Boundary:

TP, San Jose West, 2015, 7.5-minute
S, Los Gatos, 2015, 7.5-minute

TOPOGRAPHIC MAP - 2015

*Figure not OCR compatible.



Legend:

Approximate Property Boundary:

TP, San Jose West, 2012, 7.5-minute
S, Los Gatos, 2012, 7.5-minute

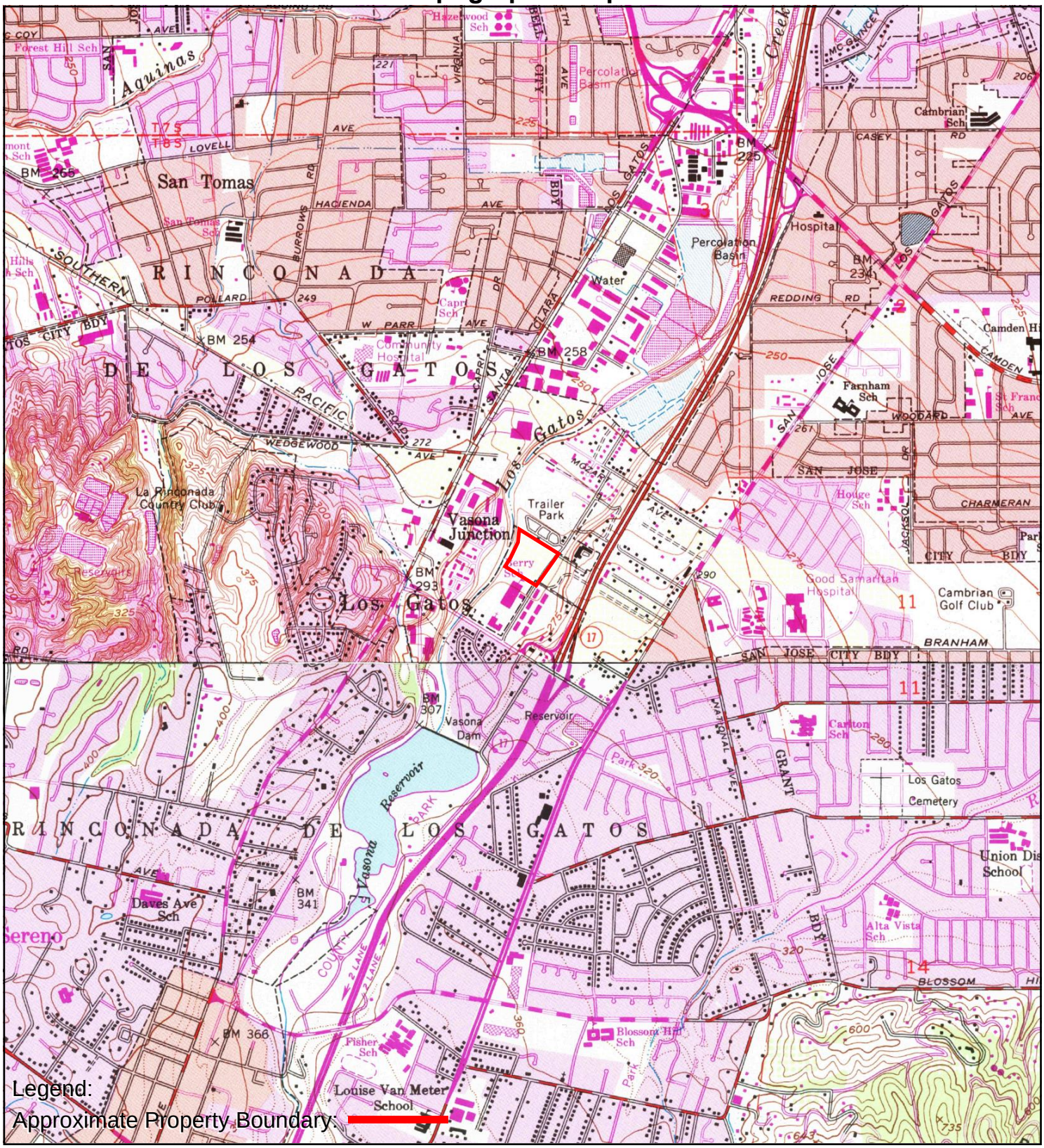
0 Miles 0.25 0.5 1 1.5

N

TOPOGRAPHIC MAP - 2012

AEI

*Figure not OCR compatible.



TP, San Jose West, 1980, 7.5-minute
S, Los Gatos, 1980, 7.5-minute

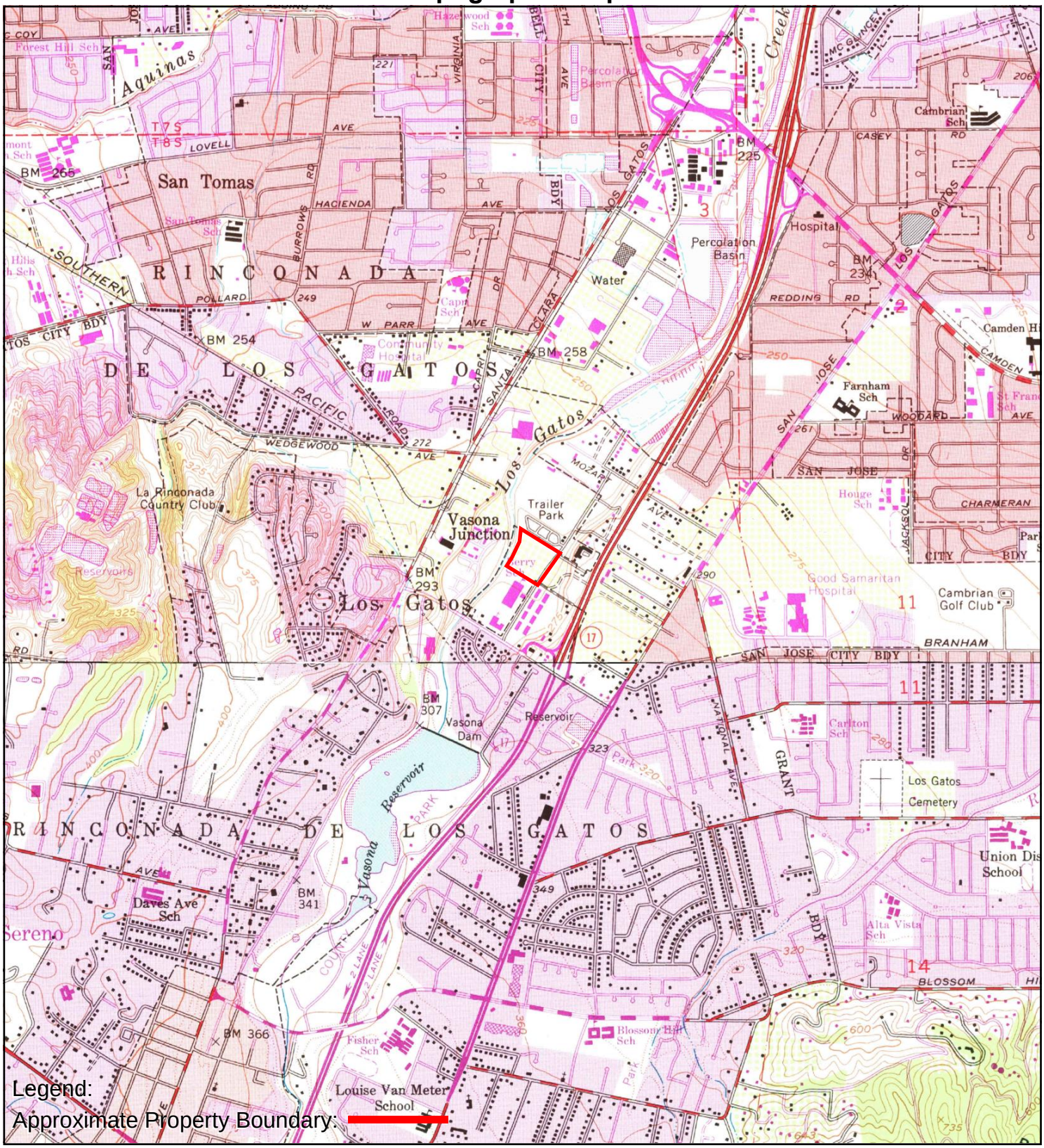
0 Miles 0.25 0.5 1 1.5

N

TOPOGRAPHIC MAP - 1980

AEI

*Figure not OCR compatible.



TP, San Jose West, 1973, 7.5-minute
S, Los Gatos, 1973, 7.5-minute

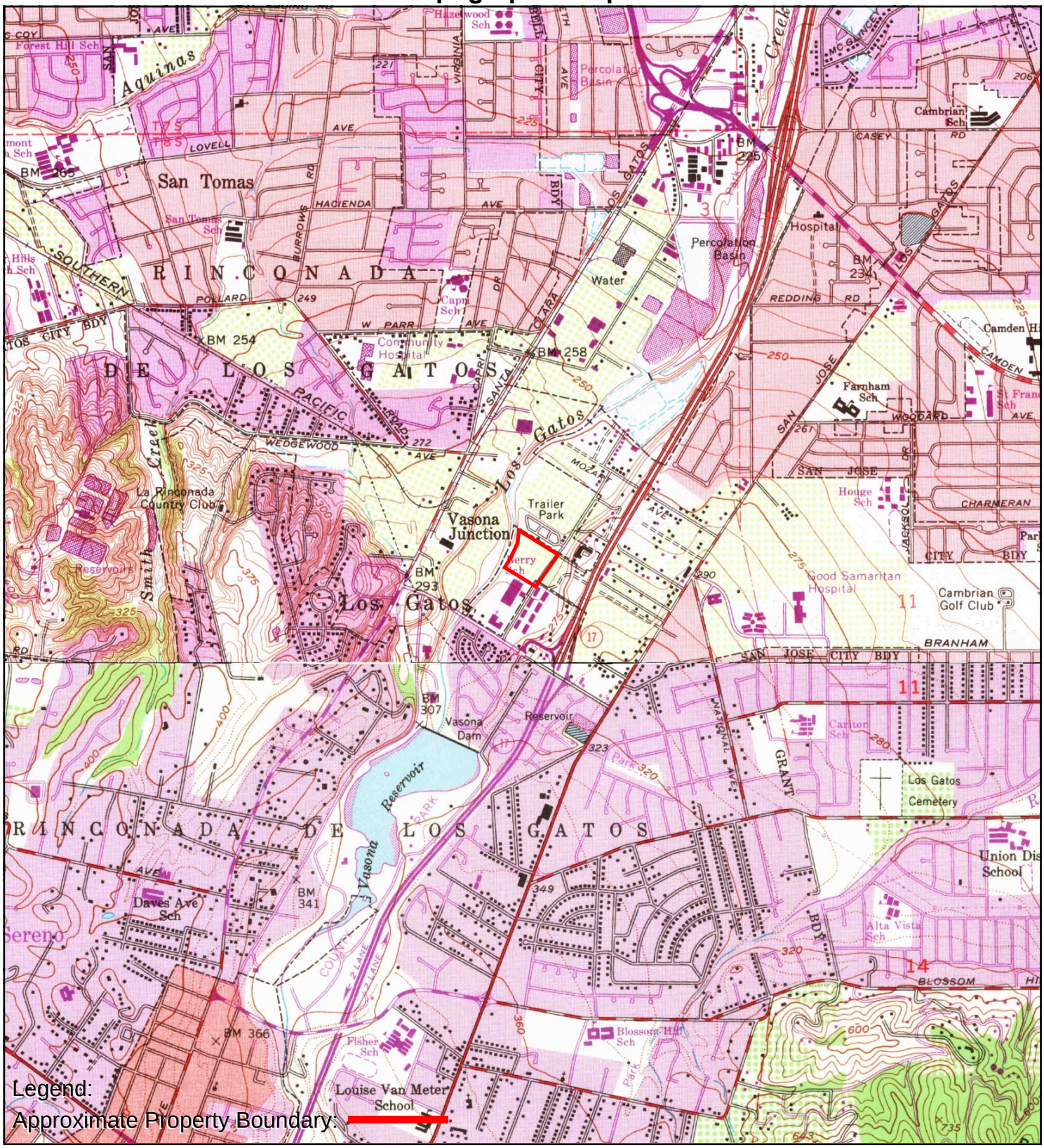
0 Miles 0.25 0.5 1 1.5

N

TOPOGRAPHIC MAP - 1973

AEI

*Figure not OCR compatible.



Legend:

Approximate Property Boundary:

TP, San Jose West, 1968, 7.5-minute
S, Los Gatos, 1968, 7.5-minute

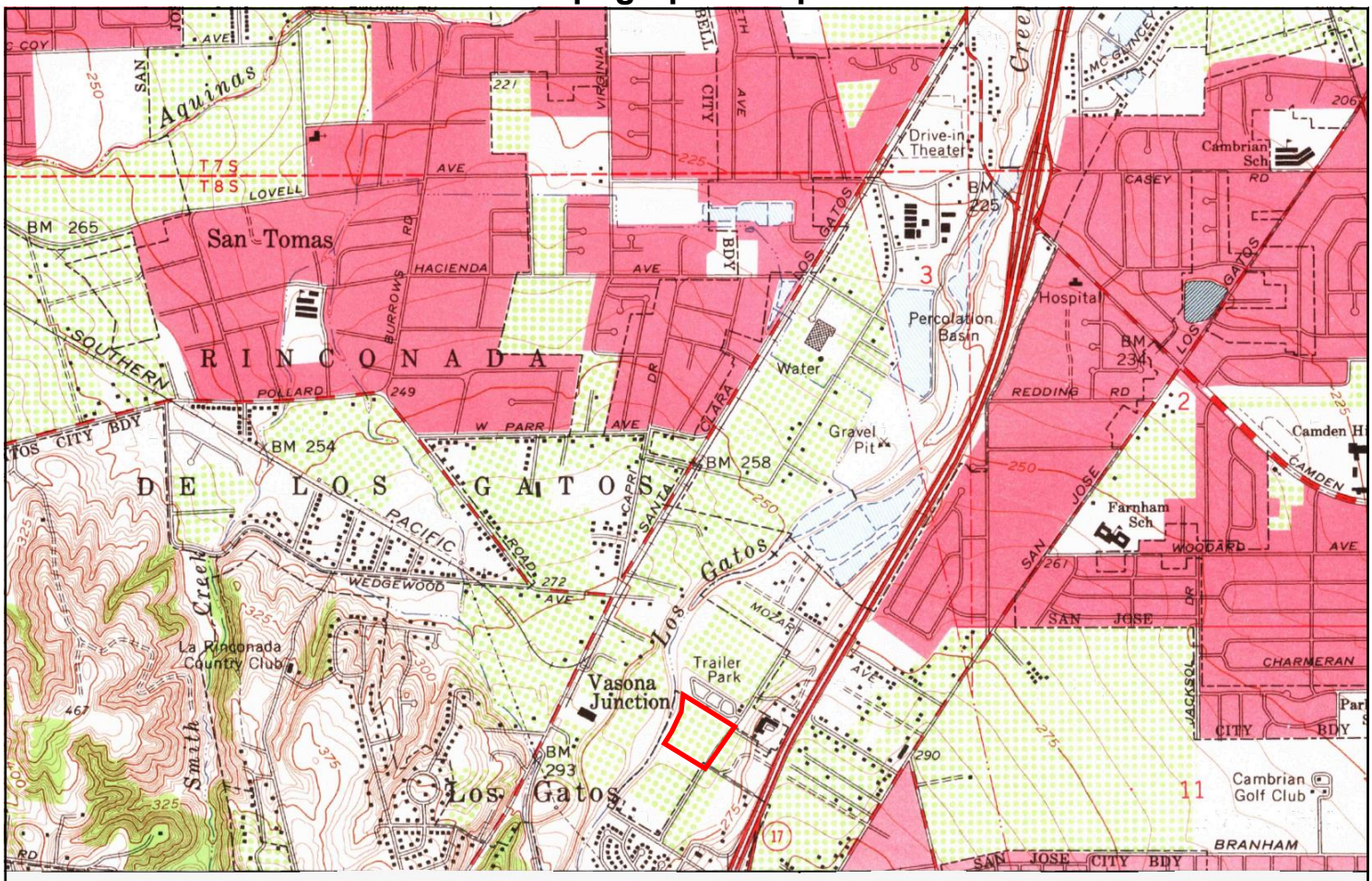
0 Miles 0.25 0.5 1 1.5

N

TOPOGRAPHIC MAP - 1968

AEI

*Figure not OCR compatible.



UNMAPPED

Legend:

Approximate Property Boundary:

TP, San Jose West, 1961, 7.5-minute

0 Miles 0.25 0.5 1 1.5

N

TOPOGRAPHIC MAP - 1961

AEI

*Figure not OCR compatible.



TP, San Jose West, 1953, 7.5-minute
S, Los Gatos, 1953, 7.5-minute

0 Miles 0.25 0.5 1 1.5

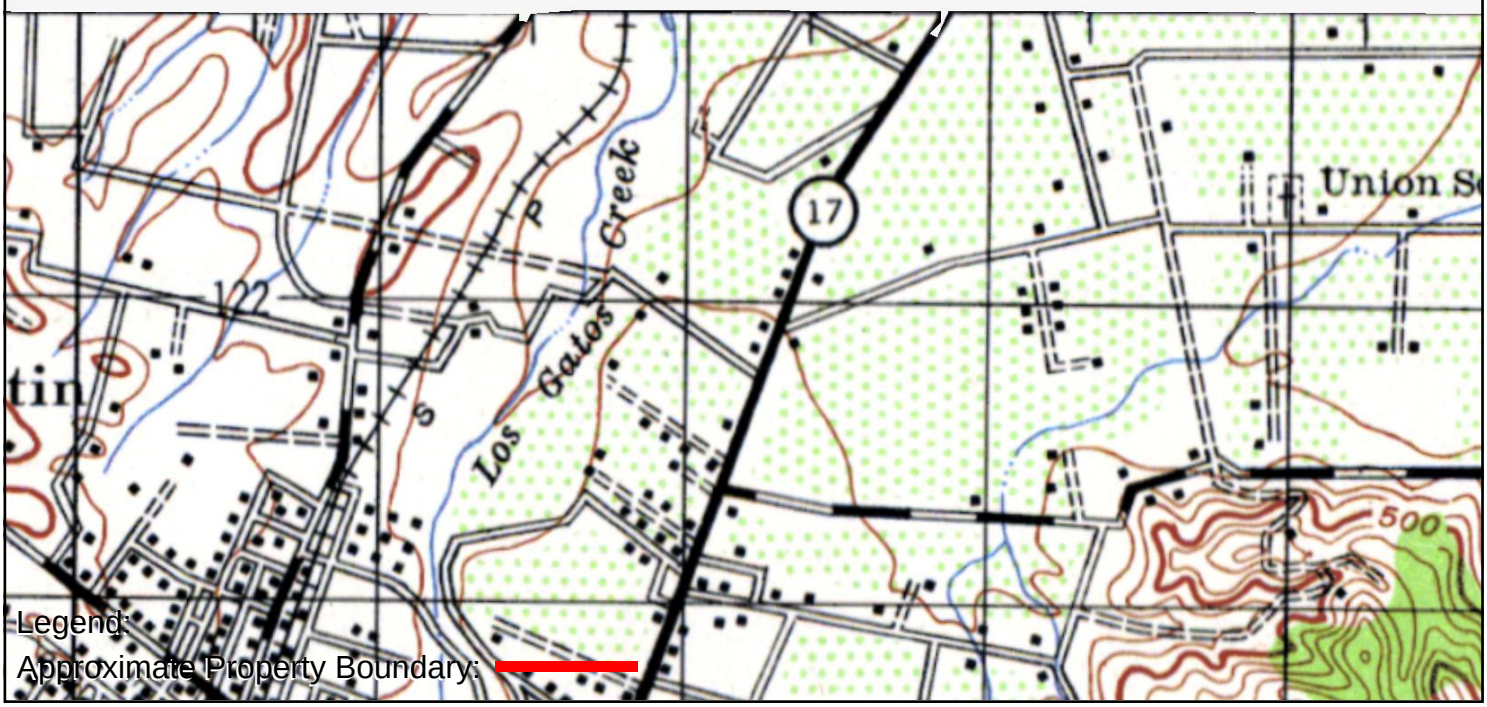
N

TOPOGRAPHIC MAP - 1953

AEI

*Figure not OCR compatible.

UNMAPPED



Legend:
Approximate Property Boundary:

SE, LOS GATOS, 1947, 15-minute

0 Miles 0.25 0.5 1 1.5

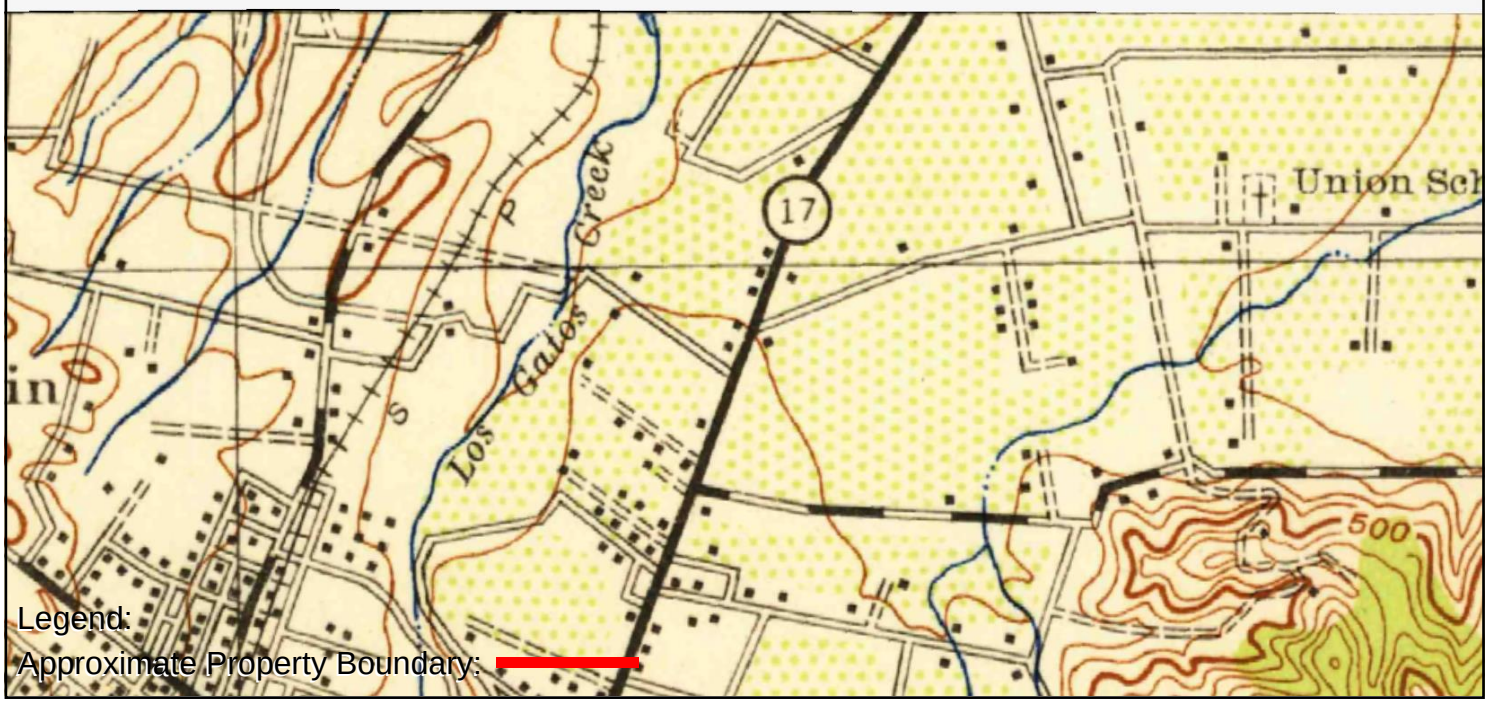
N

TOPOGRAPHIC MAP - 1947

AEI

*Figure not OCR compatible.

UNMAPPED



SE, Los Gatos, 1943, 15-minute

0 Miles 0.25 0.5 1 1.5

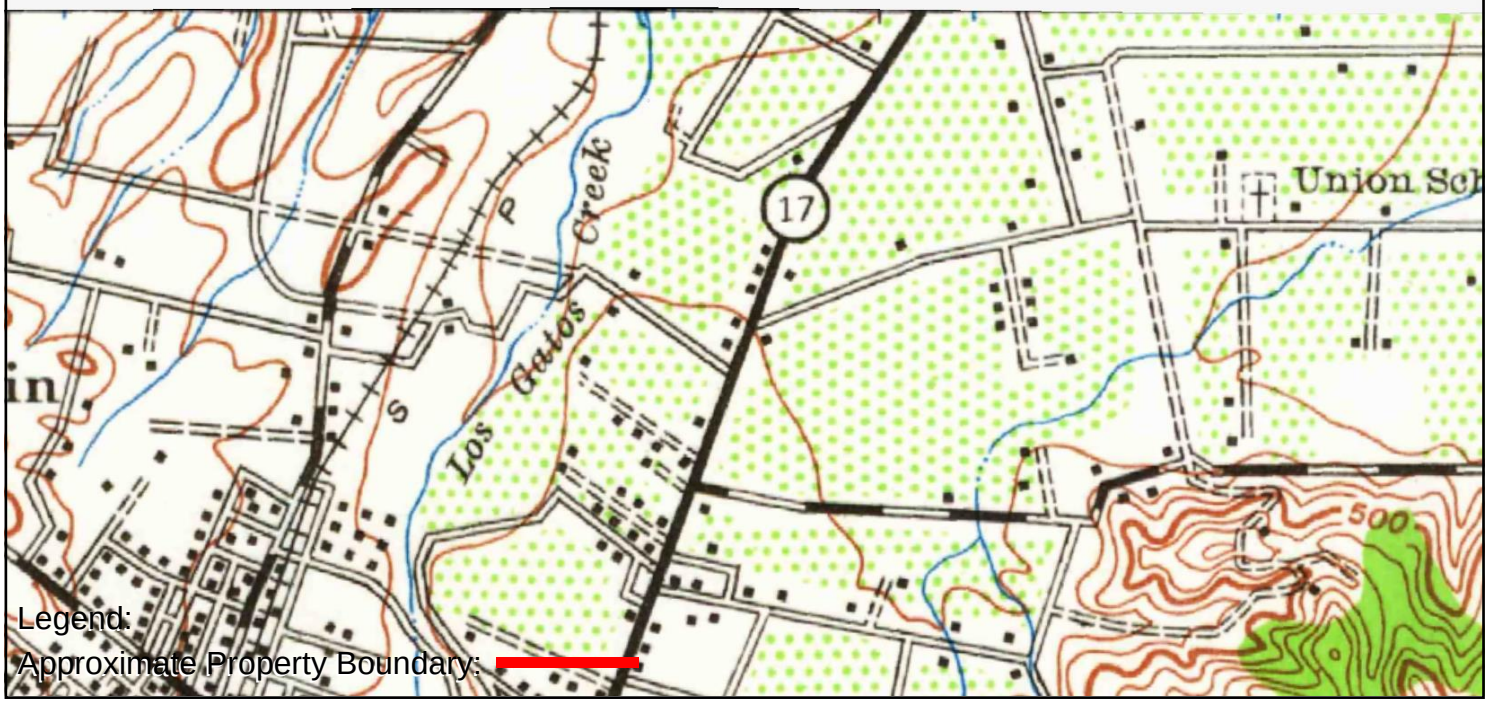
N

TOPOGRAPHIC MAP - 1943

AEI

*Figure not OCR compatible.

UNMAPPED



SE, Los Gatos, 1940, 15-minute

0 Miles 0.25 0.5 1 1.5

N

TOPOGRAPHIC MAP - 1940

AEI

*Figure not OCR compatible.

UNMAPPED



SE, New Almaden, 1919, 15-minute
SE, Los Gatos, 1919, 15-minute

0 Miles 0.25 0.5 1 1.5

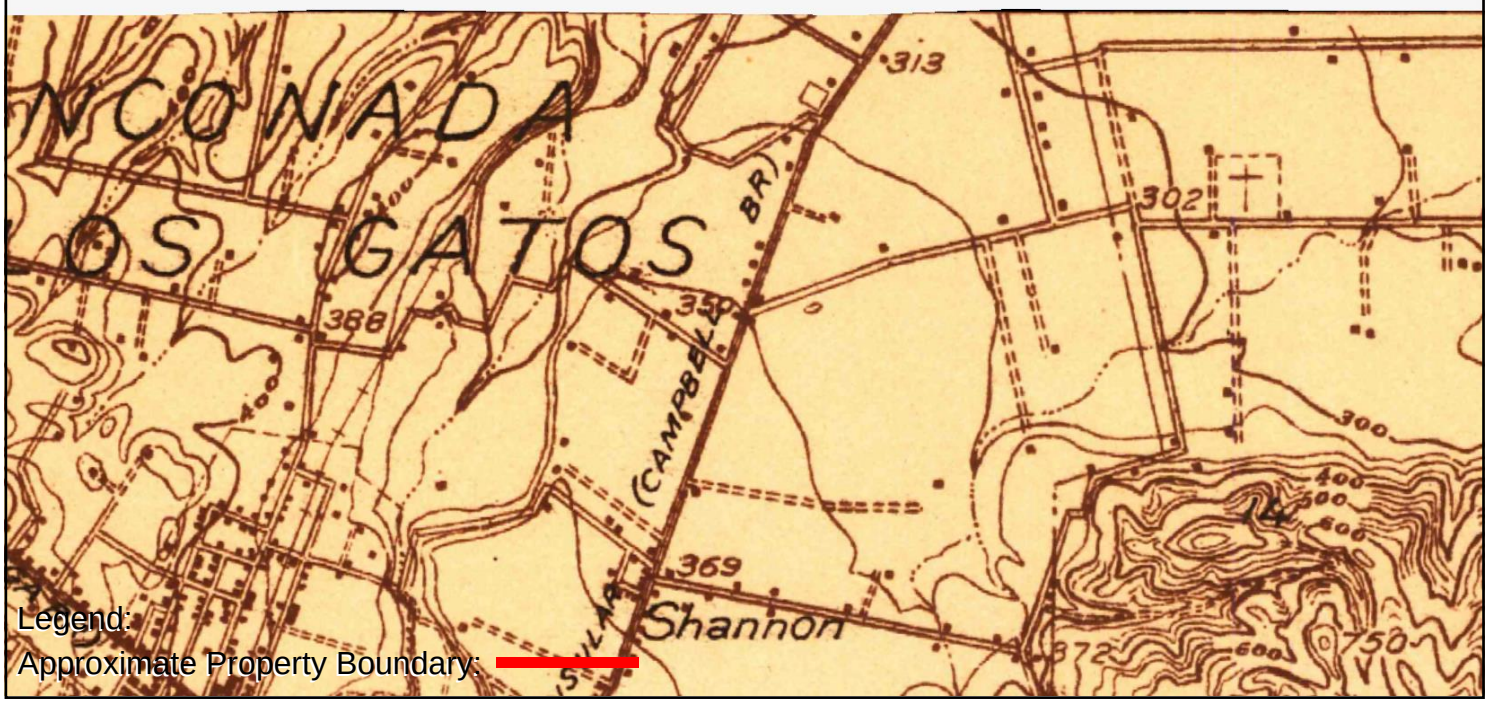
N

TOPOGRAPHIC MAP - 1919

AEI

*Figure not OCR compatible.

UNMAPPED



SE, New Almaden, 1916, 15-minute

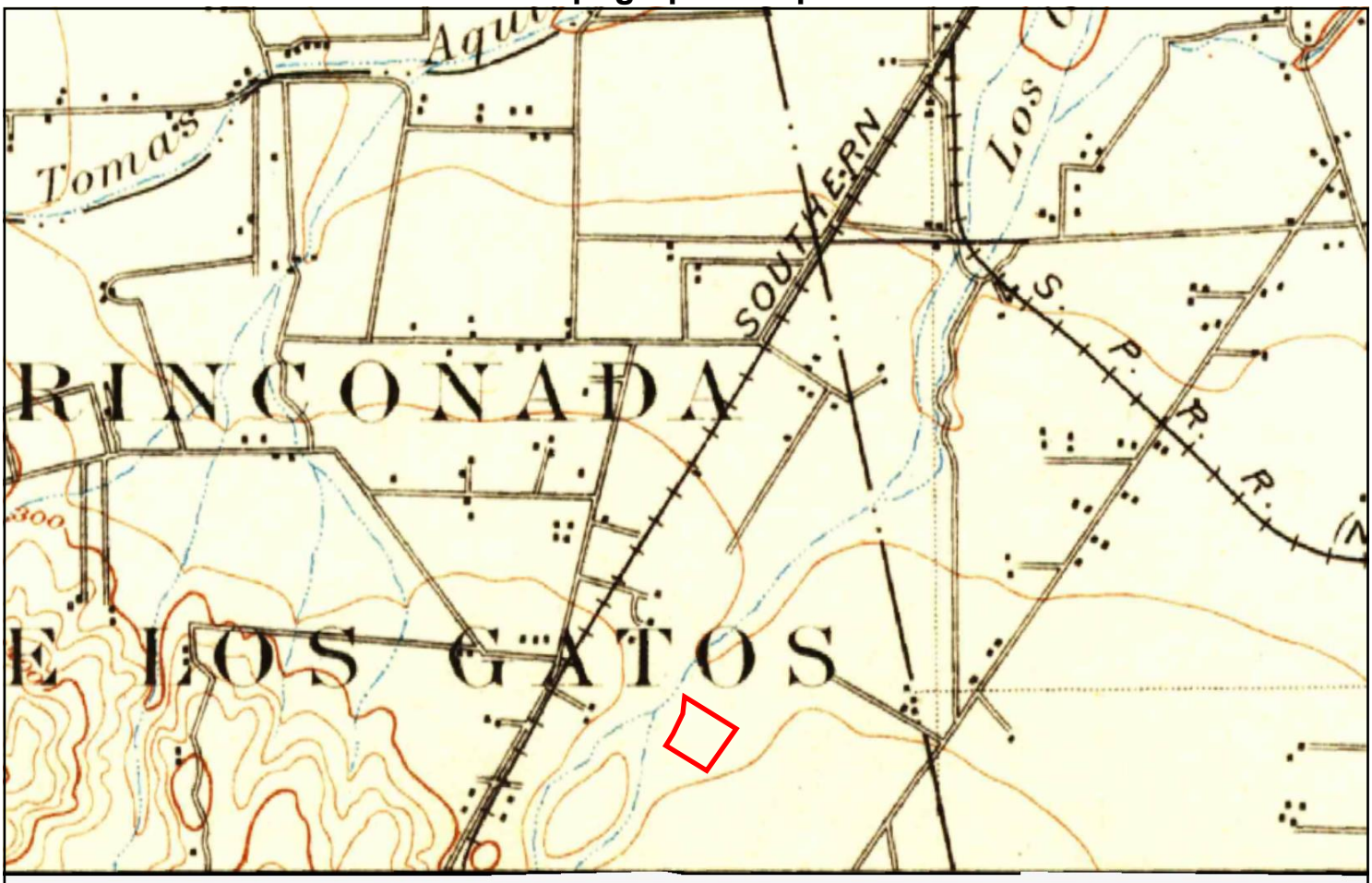
0 Miles 0.25 0.5 1 1.5

N

TOPOGRAPHIC MAP - 1916

AEI

*Figure not OCR compatible.



UNMAPPED

Legend:

Approximate Property Boundary:

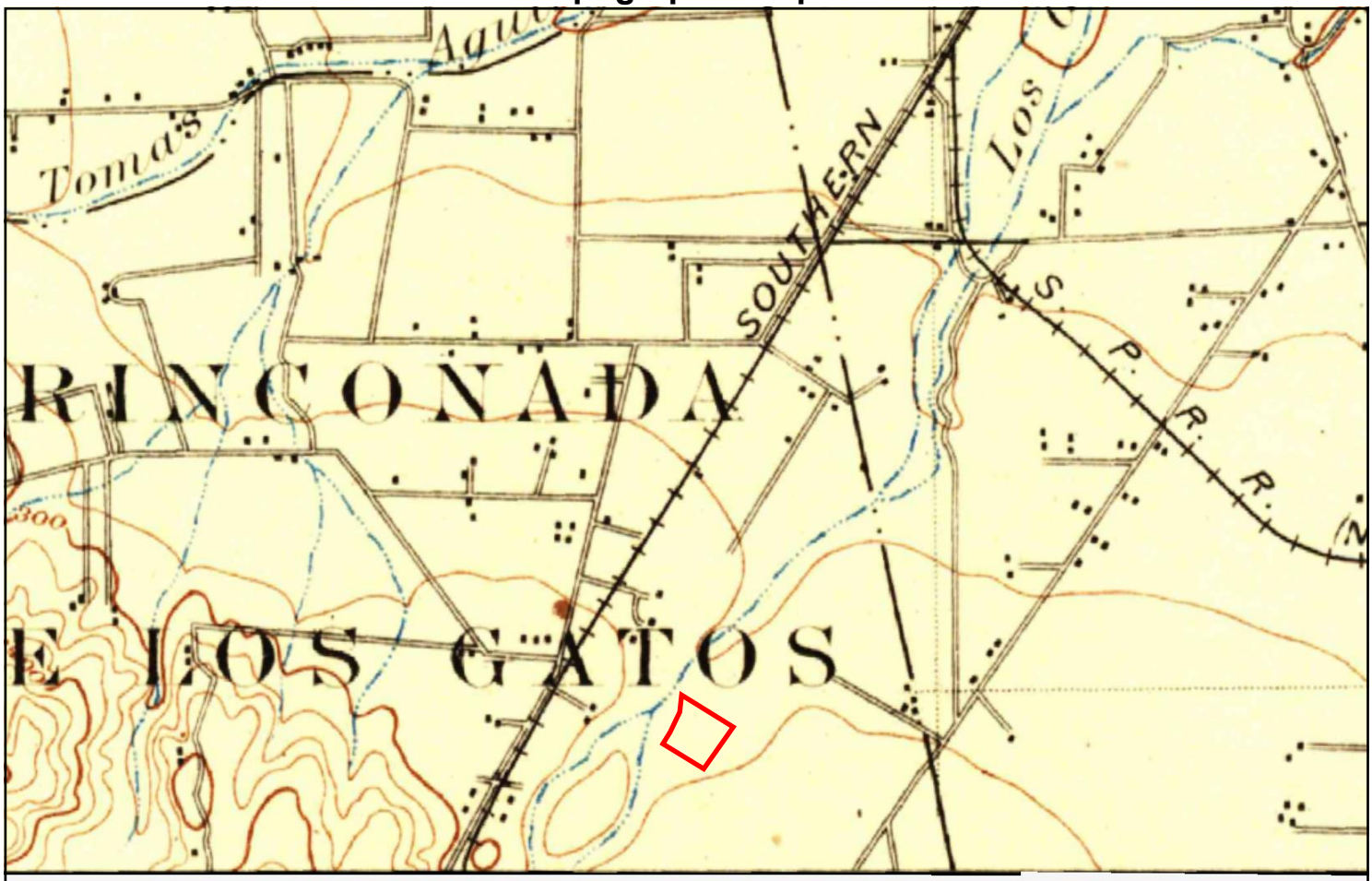
TP, San Jose, 1899, 15-minute

0 Miles 0.25 0.5 1 1.5

N

TOPOGRAPHIC MAP - 1899

*Figure not OCR compatible.



UNMAPPED

Legend:

Approximate Property Boundary:

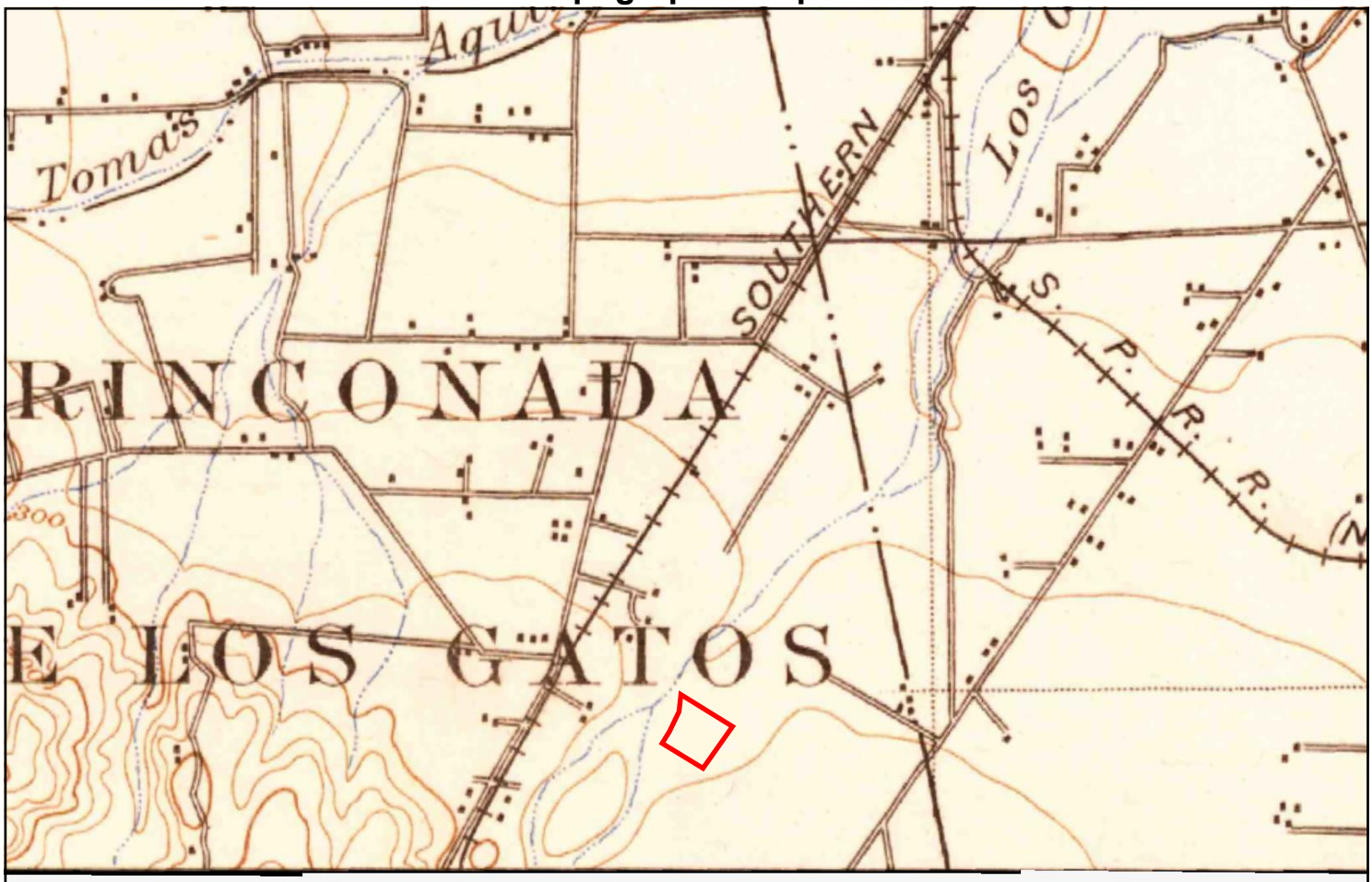
TP, San Jose, 1897, 15-minute

0 Miles 0.25 0.5 1 1.5

N

TOPOGRAPHIC MAP - 1897

*Figure not OCR compatible.



UNMAPPED

Legend:

Approximate Property Boundary:

TP, San Jose, 1889, 15-minute

0 Miles 0.25 0.5 1 1.5

N

TOPOGRAPHIC MAP - 1889

AEI

*Figure not OCR compatible.

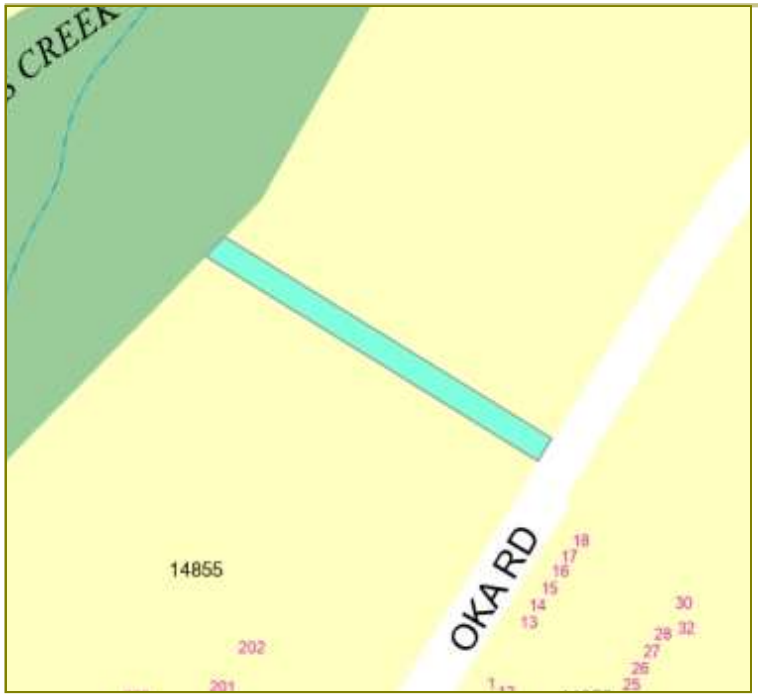
APPENDIX E

REGULATORY AGENCY RECORDS

Town of Los Gatos

Parcel Report

Assessor's Parcel Number: **424 08 035**



Basic Parcel Information

Situs Address:		
Lot Size (Assessed):	12,400	Sq. Ft.
Lot Size GIS:		Sq. Ft.
Property Value:		
Zoning:	R-1:8	
Elem School:		

Property Characteristics

		Lot Size (Acres):		Land Use Description:	
Buildings on Parcel:		Gas Service:			Public
No. of Units:		Water Service:		County Use Code:	
Total # of Floors:		Pool Code:	N	Year Built:	
Bedrooms /Baths:		Building Square Ft.:		2010 Census Tract:	
Total # of Rooms:		Garage Code:		2010 Census Block:	
		Percentage Improved:			

Assessor's Information

Tax Rate Area:		Tract:	
Tax Year:		Neighborhood Code:	
Document Date:		Legal Description:	
Document			
Deed Type:	GRDE		

Additional Information

Has Secondary Unit?:	No	Is Historic Site?:	No
Is In Hillside Planning Area?:	No	FEMA Flood Panel / Zone:	0239 / X

Town of Los Gatos

Parcel Report

Is In Hillside Specific Plan?:	No	Street Sweeping:	T7A (Week2 Wednesday)

Town of Los Gatos

Parcel Report

Assessor's Parcel Number: **424 08 074**



Basic Parcel Information

Situs Address:		
Lot Size (Assessed):	277,912	Sq. Ft.
Lot Size GIS:		Sq. Ft.
Property Value:		
Zoning:	R-1:8:HEOZ	
Elem School:		

Property Characteristics

	Lot Size (Acres):	Land Use Description:
Buildings on Parcel:	Gas Service:	Low Density Residential
No. of Units:	Water Service:	County Use Code:
Total # of Floors:	Pool Code:	Year Built:
Bedrooms /Baths:	Building Square Ft.:	2010 Census Tract:
Total # of Rooms:	Garage Code:	2010 Census Block:
	Percentage Improved:	

Assessor's Information

Tax Rate Area:		Tract:	
Tax Year:		Neighborhood Code:	
Document Date:		Legal Description:	
Document			
Deed Type:	GRDE		

Additional Information

Has Secondary Unit?:	No	Is Historic Site?:	No
Is In Hillside Planning Area?:	No	FEMA Flood Panel / Zone:	0239 / X

Town of Los Gatos

Parcel Report

Is In Hillside Specific Plan?:	No	Street Sweeping:	T7A (Week2 Wednesday)

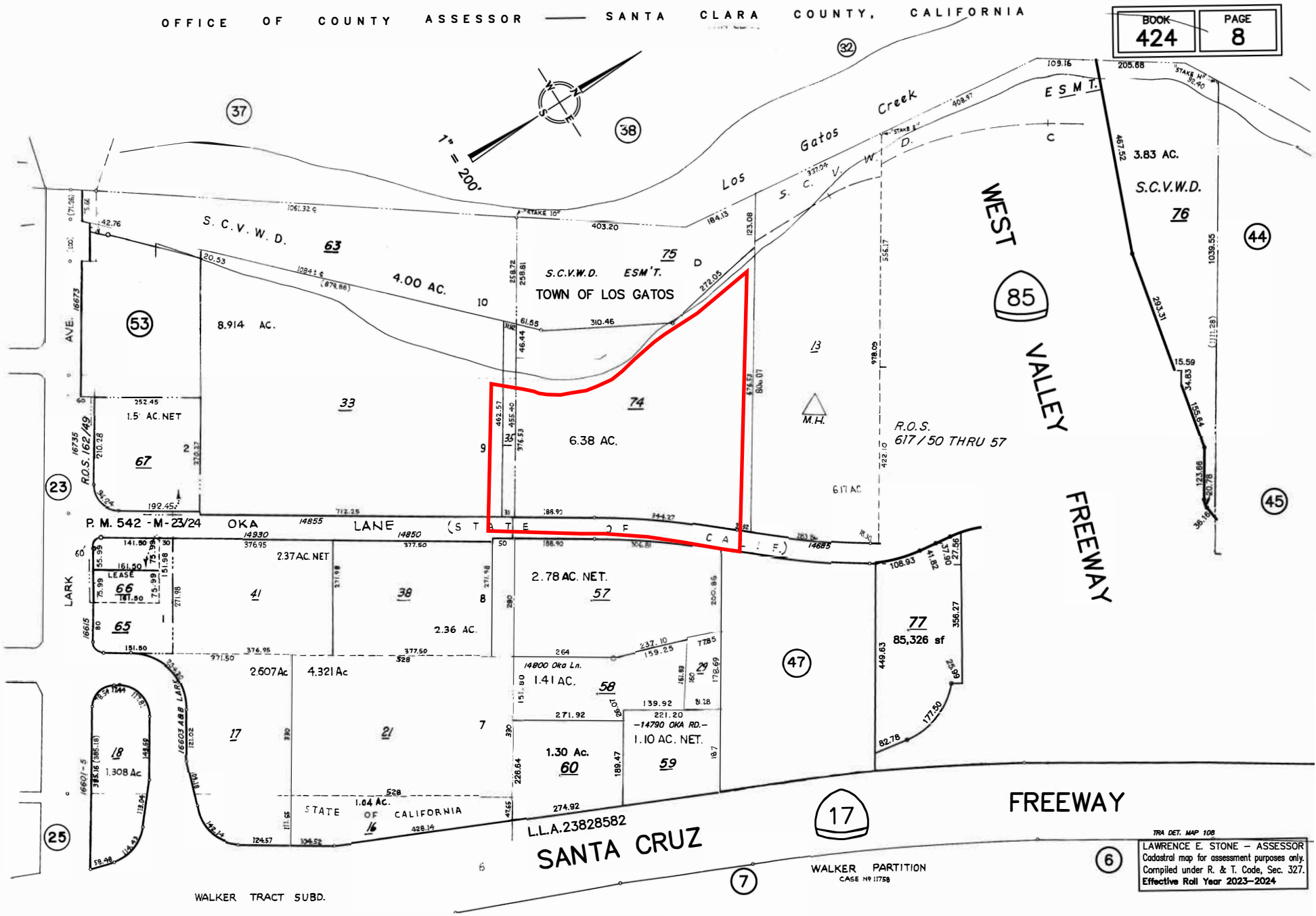


*Figure not OCR compatible.

Request a public record

Note: we have 10 calendar days to process a request, more in special circumstances or if more information is needed. Contact us if there is no response after 10 days.

While not required, please provide a method of contact (email preferred) for efficient communication and request fulfillment

Request description

Hello, I am requesting any information/documentation with the Department of Environmental Health regarding two vacant land parcels in Los Gatos (APNs: 424-08-035 and 424-08-074). Of particular interest are the following items:

- Records regarding petroleum product and/or hazardous substance usage/storage at the subject property (i.e., permits, inspections, hazardous materials business plans, SPCC plans, maps, site plans, chemical inventories);
- Records regarding aboveground storage tank (AST) and/or underground storage tank (UST) systems at the subject property;
- Records of hazardous substance and/or petroleum product releases, contamination or other known environmental concerns which may have affected the subject property;
- Records of violations or corrective actions;
- Records of septic system installations and repairs at the subject property;
- Records of wells in connection with the subject property; and/or
- Environmental permits (wastewater discharges and/or air emissions) and the most recent associated effluent/emission sampling.

The time frame for this request is 1940-2024.
Thank you.

Upload and attach files (optional)

Choose file(s)

* Department

Department of Environmental Health (DEH)

Your information

Email

pcallahan@aeiconsultants.c

Name

Paige Callahan

Phone

9168495393

Street address

3880 S. Bascom Avenue, Suite 104

City

San Jose

State

California

Zip

95124

Company

AEI Consultants

Make request

* Indicates required field

Before submitting a request

Please perform a search for the records being inquired before submitting a request as the records may be previously requested and published for public viewing, which are immediately available.

For food facility inspection reports.

Participating Departments

This portal is only fulfilling record requests for the programs and services of the following agency and departments:

Department of Environmental Health (DEH):

- Consumer Protection Division
- Hazardous Materials Compliance Division
- Site Mitigation Program
- Solid Waste Programs

Consumer and Environmental Protection Agency (CEPA):

Agriculture and Environmental Management (AEM)

- Agriculture
- Animal Services
- Clean Water Program
- Household Hazardous Waste
- Recycling and Waste Reduction Division
- Weed Abatement Program
- Weights and Measures

Vector Control District (VCD)

Requests for Multiple Departments

If the request is for more than one above department, please submit a request for each department as the personnel processing requests are different.

Non-Participating Departments

If the request is not with the agency or departments above and not on the department list to the left, please contact the agency or department directly. List of the County's agencies and departments. Requests for non-participating departments will be closed.

Anonymous Requests

Contact information is not required to submit a request. However, the requester will not receive notifications regarding the request, can only view updates by searching for the request through the portal and only view documents that have been published for public viewing. If additional information is needed to process the request, it may be closed without a method to reach the requester.

FAQS
Help
Privacy
Terms
County of Santa Clara
NextRequest
POWERED BY CIVICPLUS

County of Santa Clara

Request Visibility: Unpublished

Request 24-893 Closed

Dates

Received

June 12, 2024 via web

Requester

Paige Callahan

pcallahan@aeiconsultants.com

3880 S. Bascom Avenue, Suite 109, San Jose, CA, 95124

9168495393

AEI Consultants

Staff assigned

Departments

DEH - HazMat

Point of contact

Angelica Bryan

Request

Hello, I am requesting any information/documentation with the Department of Environmental Health regarding two vacant land parcels in Los Gatos (APNs: 424-08-035 and 424-08-074). Of particular interest are the following items:

• Records regarding petroleum product and/or hazardous substance usage/storage at the subject property (i.e., permits, inspections, hazardous materials business plans, SPCC plans, maps, site plans, chemical inventories);

• Records regarding aboveground storage tank (AST) and/or underground storage tank (UST) systems at the subject property;

• Records of hazardous substance and/or petroleum product releases, contamination or other known environmental concerns which may have affected the subject property;

• Records of violations or corrective actions;

• Records of septic system installations and repairs at the subject property;

• Records of wells in connection with the subject property; and/or

• Environmental permits (wastewater discharges and/or air emissions) and the most recent associated effluent/emission sampling.

The time frame for this request is 1940-2024.

Thank you.

Show less

Timeline | Documents

Request closed

Public

Good afternoon,

Thank you for your recent record request received on 06/12/24 for the following address in Los Gatos:

APNs: 424-08-035 and 424-08-074

Unfortunately, we have no records for this location. However, additional electronic documents may be found on the following websites:

- Local Oversight Program (LOP)
- GEOTracker (GT)
- Spill Reports Website – California Office of Emergency Services (Cal OES):

Please be advised that in some cities, other participating agencies may be responsible for maintaining the type of files you requested. This link may be of assistance in determining who will have the documents you are looking for in the future:

- UNIDOCS – Who regulates what in Santa Clara County

June 21, 2024, 1:27pm by Staff

Department assignment

Public

Removed: Department of Environmental Health (DEH).

June 12, 2024, 3:33pm by Staff

Department assignment

Public

Department of Environmental Health (DEH)

June 12, 2024, 1:02pm by the requester

Request opened

Public

Request received via web

June 12, 2024, 1:02pm by the requester

PN: 494888 PRR for Fire Records

Paige Callahan <pcallahan@aeiconsultants.com>
Wed 6/12/2024 1:07 PM
To:prevention@sccfd.org <prevention@sccfd.org>

Hello,

I am requesting any information/documentation with the SCC Fire Department regarding two vacant land parcels in Los Gatos (APNs: 424-08-035 and 424-08-074). I was wondering if your Department would have records for a property that does not have any address associated with it. Please let me know and, if so, I can complete the PRA form and get that sent over to you.

Thank you!
Paige Callahan

Paige Callahan (She/her)
Due Diligence Project Manager I

AEI Consultants
3880 S. Bascom Avenue, Suite 104
San Jose, CA 95124
O: 916.287.8627
C: 916.849.5393
E: pcallahan@aeiconsultants.com

Public Records Request

Please use this form to make a request that "reasonably describes an identifiable record or records." (Government Code § 6253) Most requests to the Air District are for records about a particular facility or address. Please enter as much information as you can below so that we understand what records you seek. Please submit a separate form for each facility or address. You may also request any other records by describing them in the "other" box. We will send you an e-mail confirming each request. We will also contact you before starting work if there will be copying or data compilation costs.

Request Details

Request Type *

Facility Information

Facility Name (Optional, if known, please include)

Facility Address *

0 Oka Road

Facility City *

Los Gatos

Facility State *

California

Facility Zipcode (if known)

Air District Facility ID (if known)

Period Covered

1940-2024

Print Outs

- [ ] **Episode**
- [x] **Permit Application**
- [x] **Violation**
- [x] **Complaint**

For Office Use Only *

0 Oka Road, Los Gatos

Brief Description (3000 character limit) (Optional)

Hello, I am requesting any information/documentation with the Air District regarding two vacant land parcels in Los Gatos (APNs: 424-08-035 and 424-08-074). Of particular interest are the following items:
• Air permits;
• Notices of Violation and/or Notices to Comply;
• Industrial emissions;
• Records regarding any aboveground storage tanks (ASTs) and/or underground storage tanks (USTs); and/or
• Records regarding any hazardous materials storage/disposal.
The time frame for this request is 1940-2024.

☐ **I will be sending additional documentation for this request.**
(Please e-mail any additional documentation to publicrecords@baaqmd.gov and include the Request Number from the confirming e-mail you receive after you submit this request.)

Requested Delivery Method

Electronic Copy

Submit

PRR #2024-06-0068; 0 Oka Road, Los Gatos

Public Records <PublicRecords@baaqmd.gov>

Tue 6/18/2024 7:48 AM

To:Paige Callahan <pcallahan@aeiconsultants.com>

External Email:

Hello, please note that there were no records found for 0 Oka Road, Los Gatos. This request will now be closed.

Thank you.

Magnolia Vinluan-Chan for

Rochele Henderson
Public Records Coordinator

Bay Area Air Quality Management District
415-516-1916

Record PRE24-00437:
Planning On-line Pre-application
Record Status: Received

Record Info ▼ Payments ▼

Work Location

0 Oka RD
Los Gatos *

Record Details

Applicant:

Mallory Menne
Urban Catalyst
99 S. Almaden Blvd. Suite 500
San Jose, CA, 95113
*Home Phone:408-839-9850
Work Phone:408-839-9850
Mobile Phone:408-839-9850
mmenne@urbancatalyst.com

Owner:

ETPH LP *
PO BOX 567

Project Description:

The project is an SB 330 application for a 126-unit townhome development in Los Gatos, California. The project is approximately 6.75 acres on two parcels (APN 424-08-035 and 424-08-074). Each townhome would contain 2 tandem garage parking spaces per unit, totali 279 spaces. An additional 27 surface parking spaces wo be available for guest use as well. There will be 2-bedro 3-bedroom, and 4-bedroom units available for purchase The plans range from 1,500 to 1,900 square feet in size The building area is approximately 302,940 square feet.

Los Gatos CA 95031

More Details

Application Information

GENERAL

Project Type:	Architecture Site
Residential or Commercial:	Residential
Number of Parcels:	2

Parcel Information

Parcel Number:42408035 *

Block:--

Lot:-- Subdivision:--

CENSUS TRACT: 5072.03
YEAR BUILT: 01/01/1900
ZONING 1: R-1:8
STORM BASIN AREA: BASIN 2
ROAD IMPACT AREA: BASIN 2
TAX AREA CODE: 03000
REDEVELOPMENT DISTRICT: N
PARKING ASSESSMENT DISTRICT: N
HILLSIDE SPECIFIC PLAN: N
ROUTE 85: Y
HAZARDOUS FIRE AREA: N

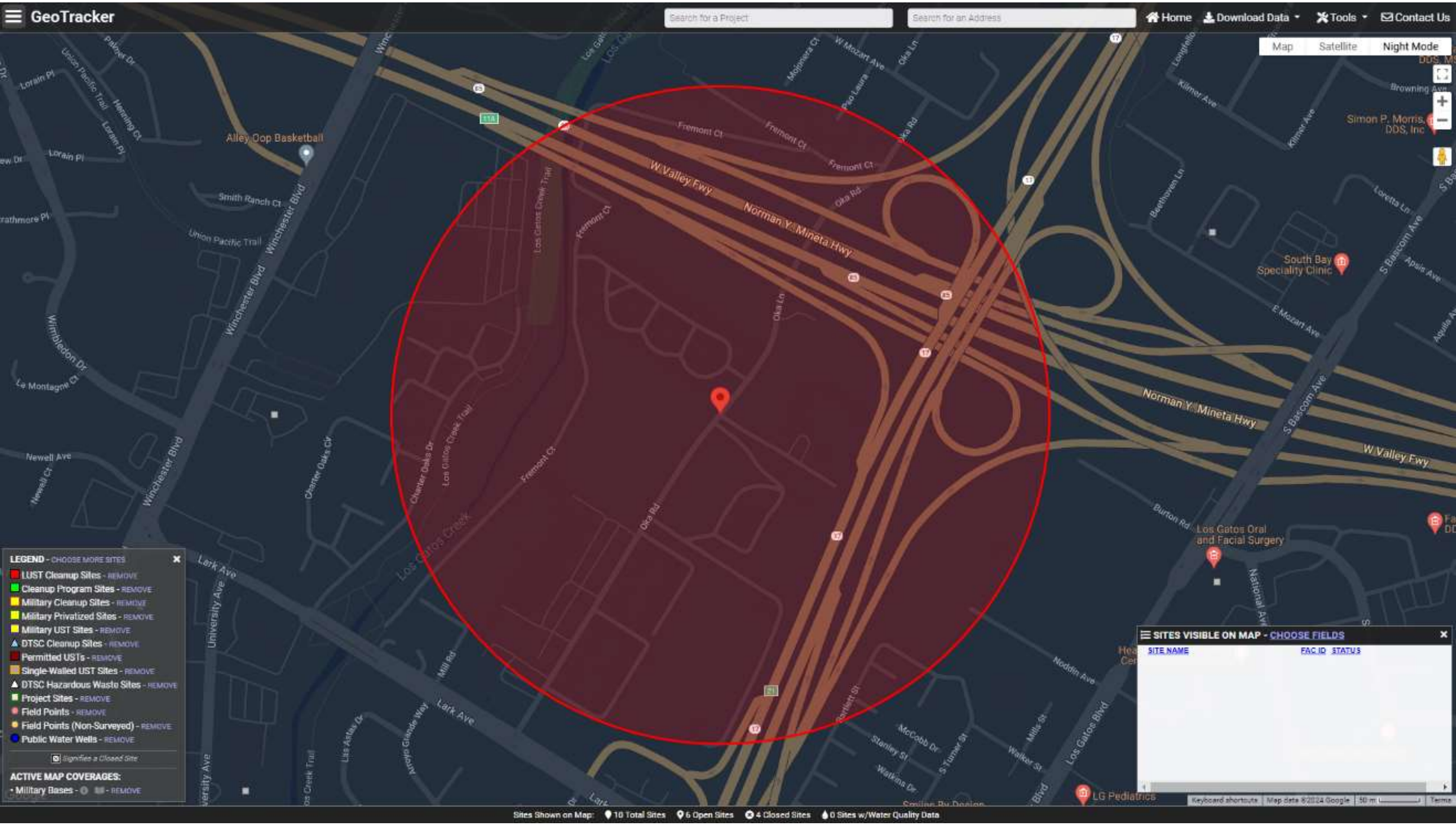


*Figure not OCR compatible.

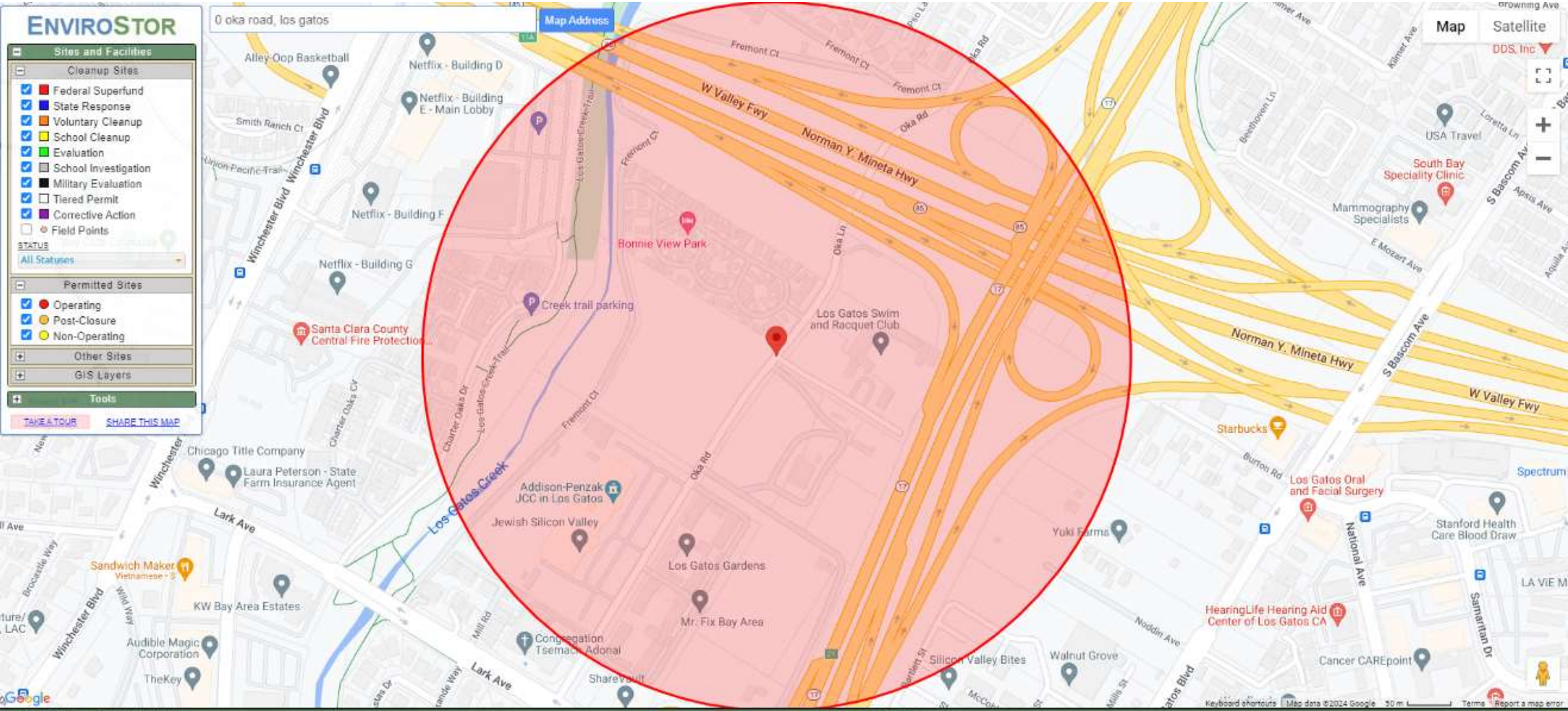


*Figure not OCR compatible.


0 oka road, los gatos
4 sites found
Did you mean: Oka Rd, Los Gatos, CA 95032
North 40 Phase 1
LOS GATOS BOULEVARD AND LARK AVENUE
LOS GATOS CA 95032
CALERA CORPORATION
100 ALBRIGHT AV A
LOS GATOS CA 95032
COMPUGRAPHICS USA
120 C ALBRIGHT WAY
LOS GATOS CA 95032-1838
PENINSULA HISTOPATHOLOGY LAB INC
160 ALBRIGHT WY STE A
LOS GATOS CA 95032
Mineta Hwy
Norman Y Mineta Hwy
Los Gatos Creek Trail
Los Gatos Creek
Willow Hill Ct
Almond Hill Ct
Charter Oaks Circle
Charter Oaks Dr
Walnut Hill Ct
Spruce Hill Ct
Oka Rd
Mill Rd
Berry Avenue
Noddin Ave
85
10
17
200 ft

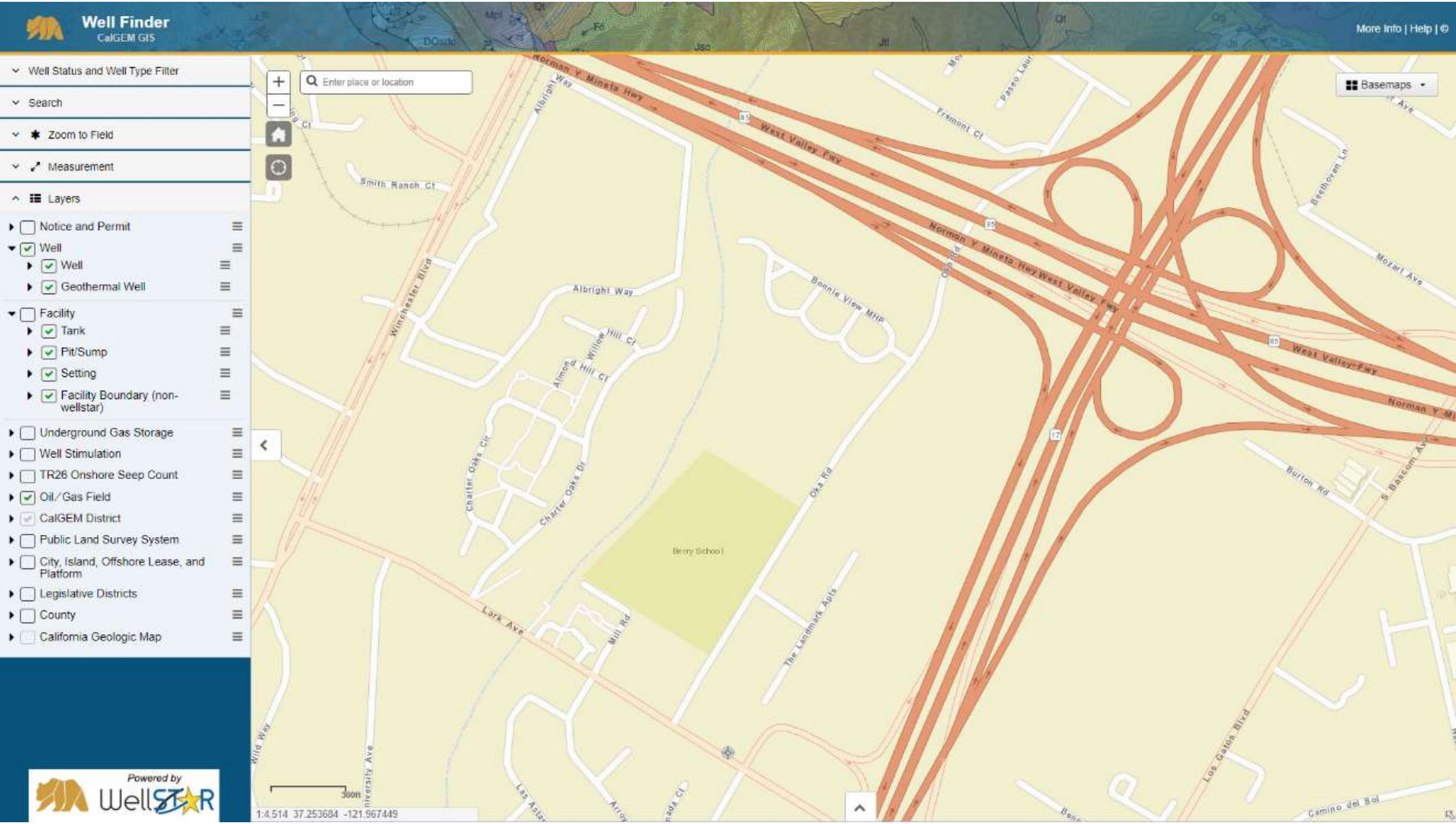


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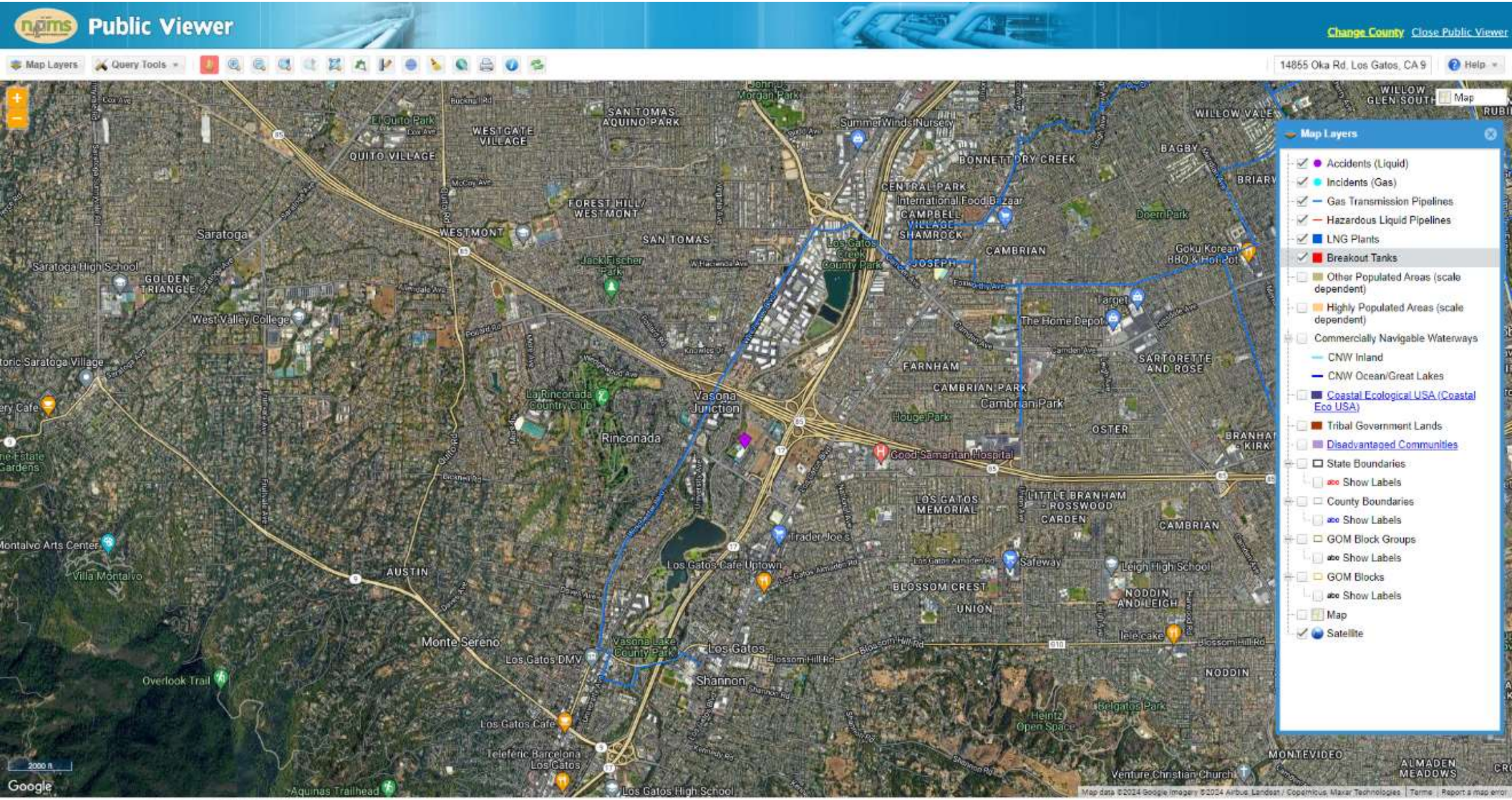


*Figure not OCR compatible.

APPENDIX F

ASTM USER QUESTIONNAIRE

AEI Consultants
Headquarters
2500 Camino Diablo
Walnut Creek, CA 94597

ASTM E 1527-21 USER QUESTIONNAIRE

According to ASTM 1527-21, to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the user must conduct the following inquiries required by 40 C.F.R. §§ 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The user should provide the following information to the environmental professional. Failure to conduct these inquiries could result in a determination that "all appropriate inquiries" is not complete.

Please note that you are not being asked to evaluate the property, but rather to provide your knowledge of information on the subject property.

Subject Property Address: APN: 424-08-035 & 424-08-074

1. Environmental liens that are filed or recorded against the subject property (40 C.F.R. ▫ 312.25).

Did a search of land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the subject property under federal, tribal, state, or local law?

Yes ◯ No ◉ If you answer yes, please include an explanation in the space provided below:

2. Activity and use limitations that are in place on the subject property or that have been filed or recorded against the subject property.

Did a search of land title records (or judicial records where appropriate) identify any AULs, such as engineering controls*, land use restrictions or institutional controls** that are in place at the subject property and/or have been filed or recorded against the subject property under federal, tribal, state or local law?

**Engineering controls are defined by ASTM 1527-21 (3.2.26) as a physical modifications to a site or facility (for example, capping, slurry walls, or point of use water treatment) to reduce or eliminate the potential for exposure to hazardous substances or petroleum products in the soil or groundwater on a property.)*

***Institutional controls are defined by ASTM 1527-21 (3.2.42) as a legal or administrative mechanism (for example, "deed restrictions," restrictive covenants, easements, or zoning) on the use of, or access to, a site or facility to (1) reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil or groundwater on the property, or (2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment.*

Yes ◯ No ◉ If you answer yes, please include an explanation in the space provided below:

3. Specialized knowledge or experience of the person seeking to qualify for the LLP (40 C.F.R. ▫ 312.28).

Do you have any specialized knowledge or experience related to the subject property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the subject property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

Yes ◯ No ◉ If you answer yes, please include an explanation in the space provided below:

4. Relationship of the purchase price to the fair market value of the subject property if it were not contaminated (40 C.F.R. ▫ 312.29).

Does the purchase price being paid for this subject property **reasonably reflect the fair market value** of the property?

Yes ◯ No ◉ **If you answer ▫No,"** have you considered whether the lower purchase price is because contamination is known or believed to be present at the subject property?

5. Commonly known or reasonably ascertainable information about the subject property (40 C.F.R. ▫ 312.30).

Are you aware of commonly known or reasonably ascertainable information about the subject property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example,

a. Do you know the past uses of the subject property?

Yes ◯ No ◉

b. Do you know of specific chemicals that are present or once were present at the subject property?

Yes ◯ No ◉

c. Do you know of spills or other chemical releases that have taken place at the subject property?

Yes ◯ No ◉

d. Do you know of any environmental cleanups that have taken place at the subject property?

Yes ◯ No ◉

If you answered yes to any of the questions above, please include an explanation in the space provided below:

6. The degree of obviousness of the presence or likely presence of contamination at the subject property, and the ability to detect the contamination by appropriate investigation (40 C.F.R. ▫ 312.31).

Based on your knowledge and experience related to the subject property, are there any obvious indicators that point to the presence or likely presence of releases at the subject property?

Yes ◯ No ◉ If you answer yes, please include an explanation in the space provided below:

Information for the person completing the questionnaire:

Name: Mallory Menne

Company: Urban Catalyst

Title: Project Manager

Phone Number: 408-839-9850

Email: mmenne@urbancatalyst.com

Date: 6/12/2024

Signature: Mallory Menne Digitally signed by Mallory Menne Date: 2024.06.12 10:54:16 -07'00'

Relationship to the property (e.g., owner, prospective buyer, lender): Prospective buyer

APPENDIX G

OTHER SUPPORTING DOCUMENTATION

324

/EPA

Pete Wilson
Governor

San Francisco Bay Regional Water Quality Control Board

2101 Webster Street
Suite 500
Oakland, CA 94612
(510) 286-1255
FAX (510) 286-1380

April 29, 1997
File No. 2188.20 (JRW,LOH)
SMS File No. 43s0531

Mr. James C. Reese
Vasona Associates
985 University Avenue, Suite 12
Los Gatos, CA 95030

Subject: Remedial Action Completion Certificate for 980 University Avenue, Los Gatos, CA

Dear Mr. Reese:

This letter confirms the completion of site investigation and remedial action for the surface release at the location described above. Enclosed is the Case Closure Summary for the referenced site for your records.

Based upon the available information, including the current land use, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to this release is required.

Please contact John West at (510) 286-1247 or Logan Hansen at (510) 286-6733 if you have any questions regarding this matter.

Sincerely,

Loretta K. Barsamian
Executive Officer

Stephen I. Morse
Chief, Toxics Division

Attachment: Case Closure Summary

cc w/attch: Tom Iwamura, SCVWD
Jim Blamey, SCCDEH
Hossain Kazemi, RWQCB
Gordon Simpkinson, CFPD
Carissa Chun, E_2C

Recycled Paper

Our mission is to preserve and enhance the quality of California's water resources, and ensure their proper allocation and efficient use for the benefit of present and future generations.

SITE CLOSURE SUMMARY

I. AGENCY INFORMATION

Date: April 29, 1997

Agency Name: S.F.B.R.W.Q.C.B.	Address: 2101 Webster Street
City/State/Zip: Oakland, CA 94612	Phone: (510) 286-1255
Responsible Staff Person: John R. West/Logan Hansen	Title: Environmental Specialist III/Student Intern

II. SITE INFORMATION

Site Facility Name: Former Tempress Facility		
Site Facility Address: 980 University Avenue, Los Gatos, CA 95030		
~~RB~~/SMS Case No.: 43s0531	Local or LOP Case No.:	Priority: 3
URF Filing Date: none	SWEEPS No.:	

Responsible Parties (include addresses and phone numbers)
James Reese
Vasona Associates
985 University Avenue, Suite 12
Los Gatos, CA 95030

Tank No.	Size in Gallons	Contents	Closed In—Place/Removed?	Date
N/A*	N/A	N/A	N/A	NA

* Not Applicable

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Leaking AGTs		
Site characterization complete? Yes	Date Approved By Oversight Agency:	
Monitoring wells installed? Yes	Number: 1	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 20ft	Lowest Depth: 30ft	Flow Direction: Easterly
Most Sensitive Current Use:		
Most Sensitive Potential Use and Probability of Use		
Are drinking water wells affected? No	Aquifer Name:	
Is surface water affected? No	Nearest/Affected SW Name: Los Gatos Creek	
Off-Site Beneficial Use Impacts (Addresses/Locations):		
Report(s) on file? Yes	Where is report(s) filed? S.F.R.W.Q.C.B.	

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	**Amount (Include Units)**	**Action (Treatment or Disposal w/Destination)**	**Date**
Soil	110 cubic yards	Disposed- Chemical Waste Mgmt, Kettleman Hills, CA	8/84

MAXIMUM DOCUMENTED POLLUTANT CONCENTRATIONS—BEFORE AND AFTER CLEANUP

POLLUTANT	Soil (ppm)		Water (ppb)		POLLUTANT	Soil (ppm)		Water (ppb)	
	Before	After	Before	After		Before	After	Before	After
TPH (Gas)	**N/A***	**N/A**	**NA***	**NA**	**Xylene**	**NA**	**NA**	**NA**	**NA**
TPH (Diesel)	**N/A**	**N/A**	**NA**	**NA**	**Ethylbenzene**	**NA**	**NA**	**NA**	**NA**
Benzene	**NA**	**NA**	**NA**	**NA**	**Freon 113**	**ND**	**NA**	**14**	**ND**
Toluene	**.071**	**ND**	**NA**	**NA**	**Zinc**	**150**	**30**	**NA**	**NA**
Cyanide	**.095**	**ND**							

Comments (Depth of Remediation, etc.): *** Not Detected** *** Not Analyzed** **N/A= Not Apllicable**

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
Does corrective action protect public health for current land use? Yes		
Site Management Requirements: No special requirements		
Monitoring Wells Decommissioned: Yes	Number Decommissioned: 1	Number Retained: 0
List Enforcement Actions Taken: None taken		
List Enforcement Actions Rescinded:		

V. TECHNICAL REPORTS, CORRESPONDENCE ETC., THAT THIS CLOSURE RECOMMENDATION WAS BASED UPON

Title:	
Environmental Site Assessment: Hytek Microsystems, Inc., ENSR	7/90
Groundwater Monitoring at Hytek Microsystems, Inc.,, EMCON Associates	12/94
Soil Contamination, Cleanup, Hytek Microsystems, Inc., EMCON Associates	9/84
Phase II ESA, E_2C, Inc.	9/96
Site Closure Summary, E_2C, Inc.	3/97

VI. ADDITIONAL COMMENTS, DATA, ETC.

PLEASE INCLUDE/ATTACH THE FOLLOWING AS APPROPRIATE:

1) SITE MAP INDICATING TANK PIT LOCATION, MONITORING WELL LOCATION, GROUNDWATER GRADIENT, ETC.; AND,

2) SITE COMMENTS WORTHY OF NOTICE (E.G., AREA OF RESIDUAL POLLUTION LEFT IN PLACE, DEED NOTICES ETC.)

According to research performed on the Site by E_2C, Inc. for environmental due diligence in 1996, the Site was initially developed with the current building in approximately 1968 and has been occupied by manufacturers of semiconductor and communications products (Tempress and Hytek). In 1984, soil contamination due to the presence of Cr, Cu, Zn, and Cyanide was discovered in shallow soils (<4.0 feet bgs) in four areas of the property due to leaking containers. During the subsequent investigation, all leaking containers were removed, as were approximately 110 cubic yards of contaminated soil.

Soil samples collected beneath the former Plating Room in 1986 were found to contain Cr at a concentration of 53 ppm; below the State Action Level of 2,500 ppm. The soils were left in place as the detected concentration presented a low level of hazard and was no subject to migration due to water or wind. At the request of the RWQCB, on groundwater monitoring well was installed in the area of a former chemical storage area.

The site was vacated by Hytek in July of 1990, and according to the Closure Plan submitted to the Central Fire Protection District (CFPD), all hazardous waste was removed from the Site and properly disposed of at off-site facilities. As part of an Environmental Audit performed by E_2C, Inc. in 1991 for the current tenant, a groundwater sample was collected from MW-1 and analyzed for the presence of VOCs. VOCs were not detected above regulatory action levels.

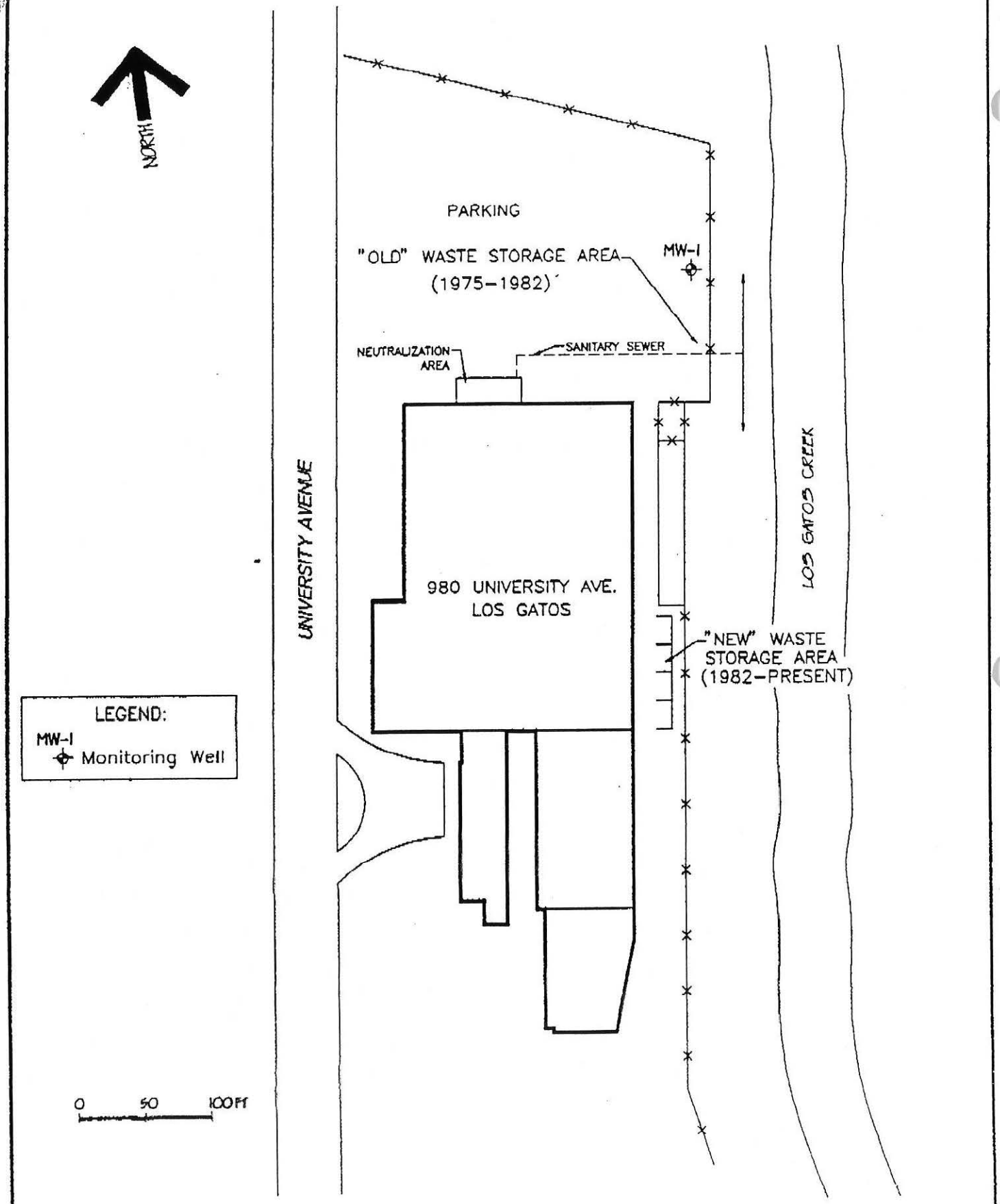
Further subsurface work was conducted by the property owner in 1996 which consisted of the collection of four shall soil samples from locations within the building, one background soil sample from an upgradient on-site location, and one groundwater sample from MW-1. Analysis performed during this study did not identify the presence of Cr, Cu, or Zn beneath the former Plating Room floor in concentrations higher than those detected in the background sample. Moreover, soils samples were not found to contain concentrations of Cyanide or VOCs above LDLs. Groundwater collected from MW-1 was found not to contain VOCs above LDLs.

Conclusion

It appears that overexcavation of the soil at the subject site has been successful in removing the metals contamination and based on available information it appears there is no significant threat to the groundwater or human health and safety. Board Staff recommend this case for closure.

Attachment: Site Map

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.



Environmental/Engineering Consultants
Civic Center Tower
675 North First Street, Suite 500
San Jose, CA 95112

AREAS OF DETECTED SOIL CONTAMINATION
980 University Avenue
Los Gatos, California

JOB NO:	7900100	FIGURE 4
DRAWN BY:	C. ZARICI	
APPROVED BY:	K. PRICE	February 1996

MAR 12 '97 10:49 ECC, INC. P05 271

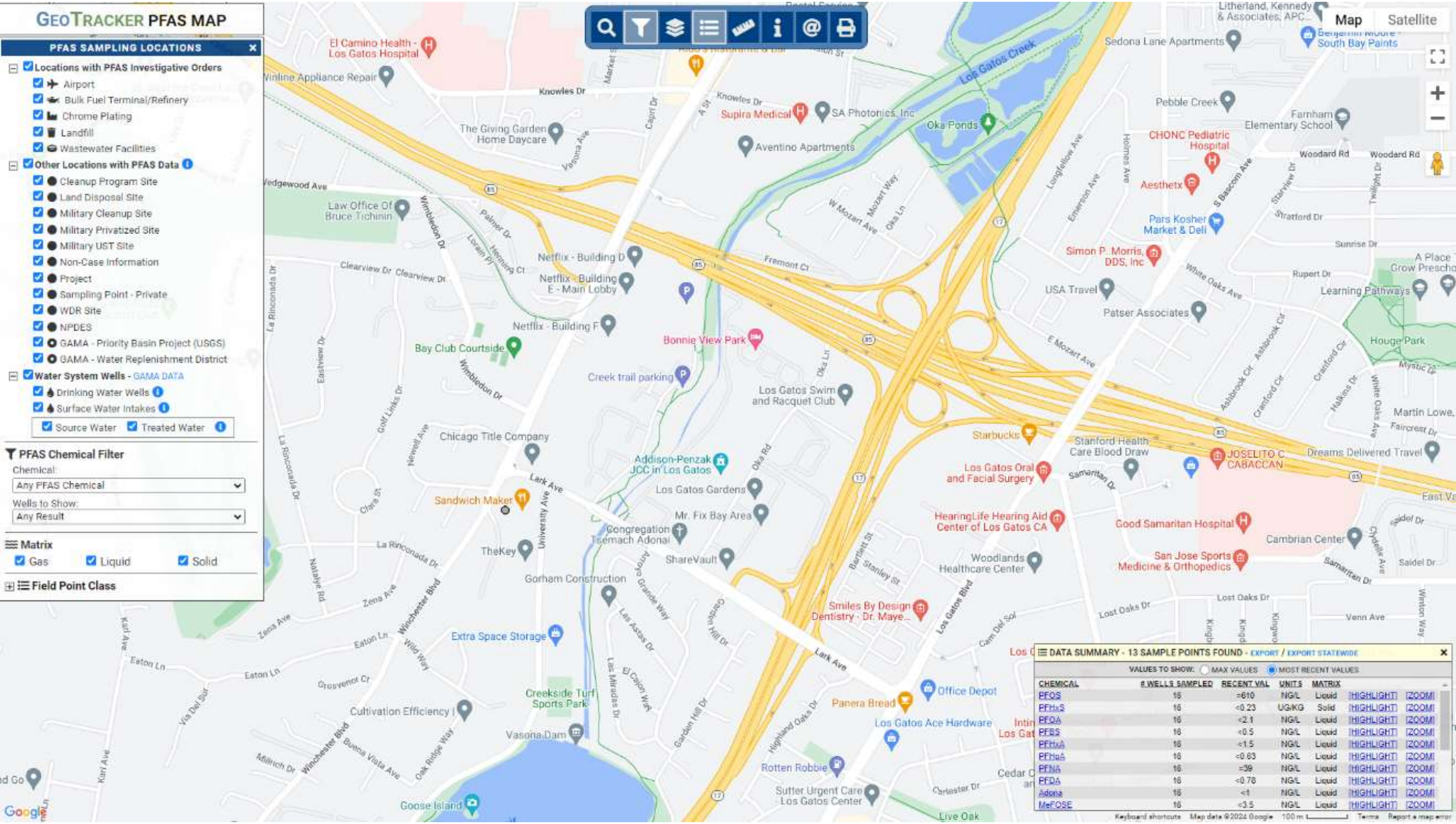


*Figure not OCR compatible.

PRE-SURVEY QUESTIONNAIRE (Environmental)

Instructions: Please complete the following questionnaire to the best of your knowledge.

SITE INFORMATION

Street Address(es)/Location: APN: 424-08-035 & 424-08-074

City: Los Gatos County: Santa Clara State: CA Zip: 95032

Parcel Number(s): APN: 424-08-035 & 424-08-074

Contact	Name	Phone Number	Yrs. Associated w/Site
Owner:	Yuki Farms, LLC (Edward Morimoto)	408-560-3672	33
Site Contact:	Vera Symons	408-356-3019 veras@yukifarms.com	
Key Site Manager:			
Previous Owners, Operators and/or Occupants:			

PROPERTY USE AND SPECIFICATIONS

☐ Residential ☐ Office/Retail ☐ Industrial ☐ Vacant Land ☒ Agricultural ☐ Other: _____

Provide all known current/former addresses and/or parcel numbers:

Are there any plans for site redevelopment or change in use? ☐ No ☒ Yes If yes, describe: See attached Site Plans. 126 townhomes planned to be developed on the site

Total Property Size (acres): 6.66	Electricity Provider: PGE
Number of Buildings: 0	Heating System Fuel Source(s):
Building Size(s) (SF): N/A	Gas Provider: PGE
Original Construction Date(s): N/A	Cooling System Power Source:
Date(s) of Renovation(s): N/A	Potable Water Source/Provider: San Jose Water Company
Number of vacant units: N/A	Sanitary Sewer Provider: West Valley Sanitation District

Any wastewater discharge at the site? ☐ Septic Tank/Leachfield ☐ Sanitary Sewer ☐ Other ☐ None

PROPERTY HISTORY

Current and Previous Occupant(s)	Years of occupancy	Brief description of on-site operations
Yuki Farms, LLC (75%)	33 Years	Walnut Farm
Silicon Valley Community Foundation of Santa Clara County (25%)		

Revision: The Yuki Family / Yuki Farms purchased the property in 1946...
In 1991 (the past 33 years) a 25% undivided interest was donated to the Silicon Valley Community Foundation.

Has the subject site ever been occupied by the following? NO

☐ Dry Cleaner ☐ Gas Station ☐ Printing Facility ☐ Manufacturing Facility

If yes, provide years of occupancy:

Have any previous investigations been performed at the subject property? ☒ No ☐ Yes

If Yes, are copies available? ☐ No ☐ Yes

If Yes, what type: ☐ Phase I ESA ☐ Phase II ☐ Asbestos Survey ☐ Lead Paint Survey ☐ Radon Sampling ☐ Other: _____

ON-SITE ENVIRONMENTAL CONDITIONS			
Are you aware of any of the following environmental conditions, **either current or former**, on the subject site?			
Environmental Condition/Issue	**Response**	**Environmental Condition/Issue**	**Response**
Aboveground Storage Tanks (ASTs)	☒ No ☐ Yes	Polychlorinated Biphenyls (PCBs)	☒ No ☐ Yes
Underground Storage Tanks (USTs)	☒ No ☐ Yes	Electrical Transformers	☒ No ☐ Yes
Hazardous/Toxic Substances/Chemicals	☒ No ☐ Yes	Hydraulic Lifts	☒ No ☐ Yes
Chemical Spills/Releases	☒ No ☐ Yes	Elevators	☒ No ☐ Yes
Dump Areas/Landfills	☒ No ☐ Yes	Asbestos	☒ No ☐ Yes
Waste Treatment Systems	☒ No ☐ Yes	Lead-Based Paint	☒ No ☐ Yes
Wastewater Discharges	☒ No ☐ Yes	Oil/Gas Wells	☒ No ☐ Yes
Floor Drains, Sumps, Clarifiers/Oil Water Separators	☒ No ☐ Yes	Flooding, Leaks, Other Water Intrusion	☒ No ☐ Yes
Pits, Ponds, Lagoons	☒ No ☐ Yes	Environmental Permits	☒ No ☐ Yes
Stained Soil, Stressed Vegetation	☐ No ☒ Yes	Environmental Cleanups	☒ No ☐ Yes
Pesticide/Herbicide Use	☐ No ☒ Yes	Water Damage, Mold	☒ No ☐ Yes

OTHER ENVIRONMENTAL CONDITIONS

Are you aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, at, or from the subject property? ☒ No ☐ Yes If yes, provide brief explanation.

Are you aware of any pending, threatened or past administrative proceedings relevant to hazardous substances or petroleum products in, on, at, or from the subject property? ☒ No ☐ Yes If yes, provide brief explanation.

Are you aware of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products? ☒ No ☐ Yes If yes, provide brief explanation.

SIGNATURE INFORMATION

Person completing questionnaire: Mallory Menne

Title/Affiliation to property: Prospective Buyer

Number of years associated with property: 1

Date: 6/12/24

SITE VISIT INFORMATION

- A person knowledgeable of current property use/business operations should be present during the site visit.
- Access to a percentage of units should be provided as requested by the field professional.
- Access to the following areas should be provided: all common areas, storage areas, and utility areas; all underground features and chemical storage/disposal areas.
- The following documentation should be provided for review if applicable: all hazardous waste manifests, environmental permits, and any previous environmental reports.

Project Number:		Return via Fax:	
Project Manager:		Return via Email:	

APPENDIX H

QUALIFICATIONS

Paige Callahan

Project Manager, Due Diligence

EDUCATION

- B.S. ▫ Earth Science with a concentration in Ocean Science, University of California at Santa Cruz

SUMMARY OF PROFESSIONAL EXPERIENCE

Ms. Callahan provides expertise in environmental project management, consulting, and due diligence services to ensure ASTM compliance and satisfaction of client requirements for Phase I Environmental Site Assessments, Environmental Transaction Screens, Regulatory Database and Historical Records Reviews for large- and small-scale industrial, commercial, multi-tenant residential, and rural properties.

PROJECT EXPERIENCE

Project experience for Ms. Callahan includes:

- Phase I Environmental Site Assessments (PHI ESAs)
- Limited Environmental Site Assessments (LESAs)
- Environmental Transaction Screens (ETSs)
- Records Research with Risk Assessments (RSRAs)
- Regulatory Database Reviews
- Historical Records Reviews

As a Due Diligence Project Manager, Ms. Callahan provides project management and technical expertise to ensure ASTM compliance and satisfaction of client requirements for projects in the Northern California area.

In addition, prior to joining the environmental consulting industry, Ms. Callahan spent four years studying a diverse range of environmental disciplines including: environmental health, coastal ecology and conservation, statistics and data analysis in geosciences, ecology, geology, environmental law and policy, and science communications.

Thomas Nanevicz

Project Manager, Due Diligence

EDUCATION

- BS ▫ Geology, Western Washington University

CERTIFICATIONS

- State of Washington Licensed Geologist (License #2713)
- AHERA Certified Asbestos Inspector

SUMMARY OF PROFESSIONAL EXPERIENCE

Mr. Nanevicz has worked in the environmental industry for over 20 years, conducting environmental due diligence, site characterization, and/or remedial investigations work in Washington, Oregon, Alaska, Idaho, Montana, Utah, Wyoming and California.

As a Project Manager, Mr. Nanevicz is responsible for ensuring ASTM compliance for Phase I ESAs, Environmental Transaction Screens, Regulatory Database Reviews, and Historical Records Reviews.

PROJECT EXPERIENCE

Project experience for Mr. Nanevicz includes:

- Due diligence services including Phase I ESAs and Phase I ESA Updates, and Good Faith Asbestos and Lead Based Paint Surveys for residential, commercial, agricultural, industrial and vacant properties
- Senior review of due diligence reports
- Phase II site investigations of vacant, agricultural, residential, commercial and industrial properties
- Remediation activities including soil, sediment, groundwater, soil-vapor and air sampling, including site characterization and ongoing monitoring of sites
- Installation of a new network of groundwater monitoring wells as part of ongoing remediation efforts at a former aluminum smelter site
- Data analysis for ongoing groundwater monitoring at the former aluminum smelter site
- UST removals and direction of soil excavation activities of former UST sites

Victor T. DeTroy

National Practice Leader, Due Diligence

EDUCATION

- BA - Earth and Environmental Science, Columbia University, Cum Laude

CERTIFICATIONS

- Registered Environmental Property Assessor (REPA)
- ASTM International E50 Committee Member, Various Task Groups

SUMMARY OF PROFESSIONAL EXPERIENCE

Mr. DeTroy has worked the environmental service industry since 2007 and provides project management to ensure compliance and satisfaction of client requirements for Phase I ESAs, Transaction Screens, limited due diligence assessments, Phase II and Phase III subsurface investigations, and quarterly groundwater monitoring events. He has successfully completed assessments on a variety of residential, commercial, and complex industrial sites. Mr. DeTroy is accustomed to all aspects of due diligence property assessments and the needs and requirements of a variety of reporting standards, including ASTM, EPA's All Appropriate Inquiry (AAI), Freddie Mac, Fannie Mae, HUD, and customized client formats.

PROJECT EXPERIENCE

Project experience for Mr. DeTroy includes:

- Phase I ESAs
- Telecommunication Phase I ESAs
- Environmental Transaction Screens
- Limited Environmental Site Assessments
- Regulatory Database Reviews
- Historical Records Reviews
- Project coordination and setup
- Due diligence portfolio management
- Design and implementation of Phase II soil and groundwater investigations and Phase III subsurface characterizations for a variety of suspected contaminants for due diligence and liability purposes

Subsurface investigations have included extensive soil and groundwater testing, identification of petroleum hydrocarbons and volatile organic compounds contamination in near surface soils, and contaminant plume delineation in soil vapor, soil, and groundwater. Mr. DeTroy's management and technical experience has allowed AEI's projects to be performed in a cost effective and timely manner to the satisfaction of AEI's clients and regulatory agencies.

Peter J. McIntyre, PG, REA

Executive Vice President, Principal Geologist, Environmental Services

EDUCATION

- University of California at Berkeley, Haas School of Business, Masters of Business Administration, May 2011
- University of California at Berkeley, B.A. Geology, May 1997

CERTIFICATIONS

- California Professional Geologist (PG) # 7702
- California Registered Environmental Assessor I (REA I) # 07977
- Illinois Licensed Professional Geologist # 196.001173
- Nevada Certified Environmental Manager (CEM) # 2108
- North Carolina Registered Geologist # 2496
- New York State Registered Geologist # 000263
- OSHA 40-Hour HAZWOPER Training
- OSHA 8-Hour HAZWOPER Site Supervisor
- Member: Groundwater Resources Association (GRA), Urban Land Institute (ULI)

SUMMARY OF PROFESSIONAL EXPERIENCE

Mr. McIntyre has over twenty years of experience in environmental consulting and engineering services. His project experience includes: Soil and groundwater investigation design and implementation; Environmental Due Diligence (Transaction Screens, ASTM Phase I and Phase II ESAs); hydrologic assessment and modeling; underground storage tank (UST) removals, closure, and compliance; and the development and implementation of remedial action projects. Additional experience includes the design and management of asbestos survey and abatement projects.

Mr. McIntyre has managed engagements and staff throughout Northern California and nationwide. Responsibilities include client relationship management, project oversight, design and review, and staff management and training. Clients include private and public sector clients, including commercial, industrial and residential real estate, petroleum industry, attorneys, developers, financial institutions, and public agencies.

PROJECT EXPERIENCE

Project experience for Mr. McIntyre includes:

- The design and implementation of numerous site investigations, groundwater monitoring programs, remedial investigations / feasibility studies (RI/FS), pilot tests, and corrective action plans (CAP) under the direction of various state and local regulatory oversight agencies

- The design and implementation of numerous soil, soil gas, and groundwater investigations for environmental due diligence (Phase II Investigations) for a variety of suspected contaminants, including UST sites, dry-cleaning facilities, plating and galvanizing operations, agricultural operations, and other industrial facilities
- Environmental engineering and consulting services for numerous development and redevelopment projects (brownfield sites), including properties impacted with solvents, metals, petroleum, and agricultural chemicals. Projects have included planning and implementation of preliminary endangerment assessments (PEA) and portions of environmental impact reports (EIR) relating to hazardous materials during development planning, risk evaluations, release characterization and mitigation, and consulting with redevelopment agencies, investors, and regulatory agencies
- Technical oversight and management for projects in Colorado, Nevada, Illinois, and throughout the United States
- Investigation and mitigation at active gasoline stations and fuel facilities with significant free phase and dissolved phase contaminant plumes
- Design, implementation, and management of various remedial strategies, including the use of soil vapor extraction / air sparge, dual phase extraction, in situ chemical oxidation (ISCO), bio-remediation, soil removal, groundwater pump and treat, and natural attenuation
- Design and implementation vapor intrusion assessments and mitigation
- Providing witness testimony and litigation support, including document review, site assessment, and remediation services

APPENDIX I

COMMONLY USED ACRONYMS & ABBREVIATIONS

Units	
µg/L	Micrograms per Liter
mg/kg	Milligrams per Kilogram
mg/L	Milligrams per Liter

Units	
pCi/L	PicoCuries per Liter
ppb	Parts per Billion
ppm	Parts per Million

Acronyms & Abbreviations	
AACEI	Association for the Advancement of Cost Engineering International
AC	Air Conditioner, or Acre
ACM	Asbestos-Containing Material
ADA	The Americans with Disabilities Act
ADAAG	ADA Accessibility Guidelines
ADJ	Adjoining Site
ADU	Accessory Dwelling Unit
AEI	AEI Consultants
AFUE	Annual Fuel Utilization Efficiency
AHERA	Asbestos Hazard Emergency Response Act
AHU	Air Handling Unit
AIA	American Institute of Architects
Allow	Allowance
ALTA	American Land Title Association
Amp	Amperage, or Ampere
APN	Assessor Parcel Number
ASCE	American Society of Civil Engineers
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers
AST	Aboveground Storage Tank
ASTM	ASTM International
AUL	Activity and Use Limitation
bgs	Below Ground Surface
BOMA	Building Owners & Managers Association
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
BTU	British Thermal Unit (measurement of heat)
BTUH	British Thermal Units per Hour
BUR	Built-up Roof System
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CERCLIS	Comprehensive Environmental Response Compensation and Liability Information System
CESQG	Conditionally Exempt Small Quantity Generator
CH	Clubhouse
CO	Certificate of Occupancy
COC	Contaminant of Concern, or Chemical of Concern
COP	Coefficient of Performance
CRA	Construction Risk Assessment
CREC	Controlled Recognized Environmental Condition
CUP	Conditional Use Permit
CWH	Compact Water Heater, or Cold Water Heater
DHW	Domestic Hot Water
DWV	Drainage, Waste, Ventilation
EA	Each
EC	Engineering Controls
ECM	Energy Conservation Measure
EDR	Environmental Data Resources, Inc.
EEM	Energy Efficiency Measures
EER	Energy Efficiency Ratio

Acronyms & Abbreviations	
LBP	Lead-Based Paint
LCP	Lead-Containing Paint
LED	Light Emitting Diode
LEED	Leadership in Energy and Environmental Design
LFCA	Limited Facility Condition Assessment
LLP	Landowner Liability Protection
LQG	Large Quantity Generator
LS	Lump Sum
LUST	Leaking Underground Storage Tank
M	Model
MAP	Multifamily Accelerated Processing
MBH	1,000 BTUs per Hour
MCL	Maximum Contaminant Level
MDP	Main Distribution Panel
MEP	Mechanical, Electrical and Plumbing
MHP	Mobile Home Park
MMI	Modified Mercalli Intensity
MPH	Miles per Hour
MRL	Machine Room-Less
MTBE	Methyl Tertiary Butyl Ether
MTCO2e	Metric Tons of Carbon Dioxide Equivalent
NA or N/A	Not Applicable
ND	None Detected
NESHAP	National Emission Standards for Hazardous Air Pollutants
NFA	No Further Action
NFPA	National Fire Protection Association
NFRAP	No Further Remedial Action Planned
NLR	No Longer Regulated
NOV	Notice of Violation
NPL	National Priorities List
NPV	Net Present Value
NRA	Net Rentable Area
NRI	National Risk Index
O	Occupied
O&M	Operations and Maintenance
OEC	Other Environmental Consideration
OFC	Office
OH&PR / OH&P	Overhead and Profit
OPC	Opinion of Probable Cost
OSHA	Occupational Safety and Health Administration
PCA	Property Condition Assessment
PCB	Polychlorinated Biphenyl
PCE / PERC	Perchloroethylene, or Tetrachloroethylene, or Tetrachloroethene
PCR	Property Condition Report
PE	Professional Engineer
PFAS	Per- and Polyfluoroalkyl Substances

Acronyms & Abbreviations	
EFF AGE	Effective Age
EIFS	Exterior Insulation Finishing Systems
EMF	Electro Magnetic Fields
EMS	Energy Management System
EPA	Environmental Protection Agency
EPDM	Ethylene Propylene Diene Monomer (rubber membrane roof)
ERNS	Emergency Response Notification System
ESA	Environmental Site Assessment
ESG	Environmental, Social and Governance
EUI	Energy Use Intensity
EUL	Estimated Useful Life
EWEM	Energy and Water Efficiency Measure
F	Fahrenheit
FAR	Floor Area Ratio
FCA	Facility Condition Assessment
FCU	Fan Coil Unit
FEMA	Federal Emergency Management Agency
FF&E	Furniture, Fixtures and Equipment
FFHA	Federal Fair Housing Act
FHA	Forced Hot Air, or Fair Housing Act, or Fair Housing Adminitration
FHW	Forced Hot Water
FIRM	Flood Insurance Rate Map
FLS	Fire and Life Safety
FM	Factory Mutual
FOIA	US Freedom of Information Act
FOIL	Freedom of Information Law
FRP	Fiber Reinforced Plastic
FRT	Fire Retardant Treated
FTRP	Fire Retardant Treated Plywood
Gal	Gallon
GFA	Gross Floor Area
GFCI	Ground Fault Circuit Interrupter
GFI	Ground Fault Interrupt (circuit)
GHG	Greenhouse Gas
GIS	Geographic Information System
GPF	Gallons per Flush
GPM	Gallons per Minute
GPNA	Green Physical Needs Assessment
GPR	Ground-Penetrating Radar
GSF	Gross Square Footage
GWB	Gypsum Wall Board
HID	High Intensity Discharge
HREC	Historical Recognized Environmental Condition
HSPF	Heating Seasonal Performance Factor
HUD	Department of Housing and Urban Development
HVAC	Heating, Ventilation and Air Conditioning
IAQ	Indoor Air Quality
IBC	International Building Code
IC	Institutional Control
IM / IR	Immediate Repair
IRR	Internal Rate of Return
ISR	Impervious Surface Ratio
kBTU	Kilo-British Thermal Unit
kGal	Kilogallon
kW	Kilowatt
kWh	Kilowatt Hour

Acronyms & Abbreviations	
PGA	Peak Ground Acceleration
PML	Probable Maximum Loss
POC	Point of Contact
PSF	Pounds per Square Foot
PSQ	Pre-Survey Questionnaire
PTAC	Packaged Through-Wall Air Conditioning (Unit)
PVC	Polyvinyl Chloride
R&M	Repair and Maintain - Routine Maintenance
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
RM	Room
ROI	Return On Investment
ROW	Right-of-Way
RP	Responsible Party
RR	Replacement Reserve
RTU	Rooftop Unit
RUL	Remaining Useful Life
SDS	Safety Data Sheet
SEDI	Statement of Energy Design Intent
SEER	Seasonal Energy Efficiency Ratio
SEL	Scenario Estimated Loss
SEMS	Superfund Enterprise Management System
SEP	Statement of Energy Performance
SF	Square Footage, or Square Feet
SIR	Savings to Investment Ratio
SL	Scenario Loss
SP	Subject Property
SQG	Small Quantity Generator
SRA	Seismic Risk Assessment
ST	Short Term
SUL	Scenario Upper Loss
SUP	Special Use Permit
SVOC	Semi-Volatile Organic Compound
SY	Square Yard
TCE	Trichloroethylene, or Trichloroethene
TE	Thermal Efficiency
TPH	Total Petroleum Hydrocarbons
TPHd / TPH-d	Total Petroleum Hydrocarbons (diesel range)
TPHg / TPH-g	Total Petroleum Hydrocarbons (gasoline range)
TPHo / TPH-o	Total Petroleum Hydrocarbons (oil range)
TPO	Thermoplastic Polyolefin Roof Membrane
TRPH	Total Recoverable Petroleum Hydrocarbons
TSD	Treatment, Storage, and Disposal
UBC	Uniform Building Code
USDA	United States Department of Agriculture
USGS	United States Geological Survey
UST	Underground Storage Tank
V	Vacant
VAV	Variable Air Volume Box
VCP	Voluntary Cleanup Program
VOC	Volatile Organic Compound
VSQG	Very Small Quantity Generator
WDO	Wood Destroying Organism
ZAR	Zoning Analysis Report

APPENDIX G

LIMITED PHASE II SOIL INVESTIGATION REPORT

Limited Phase II Soil Investigation Report

REPORT DATE: August 1, 2024

SITE INFORMATION
APN: 424-08-035 and 424-08-074
Oka Road
Los Gatos, California 95032

PROJECT INFORMATION
AEI Project No. 494888

PREPARED FOR
Mallory Menne
UK OKA ROAD LLC
99 South Almaden Boulevard, Suite 500
San Jose, California 95113

PREPARED BY
AEI Consultants
2500 Camino Diablo
Walnut Creek, California 94597
925.746.6000

1.800.801.3224
www.aeiconsultants.com

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Figure 2 Site Map

TABLES
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Table 2 Soil Sample Data Summary ▫ Arsenic

APPENDICES
Appendix A Laboratory Analytical Report

August 1, 2024

Mallory Menne
UC OKA ROAD LLC
99 South Aden Boulevard, Suite 500
Los Gatos, California 95113

Subject: **Limited Phase II Soil Investigation**
APN: 424-08-035 and 424-08-074
Oka Road, San Jose, California 95127
AEI Project No. 494888

Dear Mallory Menne:

This report presents the results of the Limited Phase II Soil Investigation performed by AEI Consultants (AEI) for APN: 424-08-035 and 424-08-074, at Oka Road, San Jose, California 95127 (the Site). The June 27, 2024, Draft Phase I Environmental Site Assessment (ESA) prepared by AEI identified the Site was historically used for agricultural purposes. The purpose of this investigation is to evaluate whether the shallow subsurface at the Site (i.e., soil) has been significantly impacted by the former use of the Site for agricultural purposes. The investigation was performed in general accordance with the scope of services outlined in our proposal dated July 8, 2024 (AEI Proposal Number 97179), which was subsequently authorized on July 10, 2024.

AEI appreciates the opportunity to support this important project. If you have any questions, please do not hesitate to contact me.

Sincerely,

Peter McIntyre, PG
Executive Vice President
AEI Consultants

1.0 PURPOSE

The general purpose of this Agricultural Investigation was to evaluate whether the subsurface has been adversely impacted by the past agricultural uses identified in the *Phase I Environmental Site Assessment* (ESA) report prepared by AEI dated June 27, 2024. This investigation was completed to assess the shallow soil at the Site. The investigation was performed in general accordance with the scope of services outlined in our proposal dated July 8, 2024 (AEI Proposal Number 97179), which was subsequently authorized on July 10, 2024. The Site description, background, investigation procedures, findings, summary, and conclusions are presented in the following sections.

2.0 SITE DESCRIPTION

The Site is located in a mixed residential, agricultural, and commercial area on the northwest side of Oka Road in Los Gatos, California. The Site consists of approximately 6.66 acres of agricultural land and lacks structures. The Location of the Site is shown on Figures 1 and 2.

The ground surface at the Site and nearby properties appeared to slope to the north, with a topographic gradient to the north and is situated at an elevation of approximately 265 feet above mean sea level. According to the information obtained from the June 27, 2024 Phase I ESA for the surrounding area, groundwater is expected to be encountered from a depth of approximately 20 to 30 feet below ground surface (bgs) and groundwater flow direction beneath the Site is inferred to follow the topographic gradient, and flow to the north (AEI 2024).

3.0 BACKGROUND

According to the June 27, 2024 Phase I ESA report, aerial photographs and topographic maps; the Site was historically used for agricultural purposes as early as 1939. The purpose of this investigation is to evaluate whether the shallow subsurface at the Site (i.e., soil) has been significantly impacted by the former use of the Site for agricultural purposes.

3.0 INVESTIGATION EFFORTS

The purpose of this investigation was to evaluate the shallow surface soils in the 6.66-acre area for organochlorine pesticides (OCPs) and the metal arsenic, common persistent residual contaminants associated with historical agricultural land use. The investigation included the collection of fourteen near-surface soil samples for laboratory analysis for potential agricultural chemicals and arsenic and lead.

3.1 Health and Safety Plan

A Site-specific health and safety plan was prepared, reviewed by onsite personnel, and kept on Site for the duration of the fieldwork.

3.2 Soil Sampling

Based on the area of 6.66 acres, on July 16, 2024, a shallow soil sampling program was completed at the Site in general conformance with the August 7, 2008 *Interim guidance for Sampling Agricultural Properties* prepare by the California Department of Toxic Substances Control. The locations of the shallow soil sampling program are shown on Figure 2 and were generally spaced equally across the sampling area.

Prior to sampling, loose vegetation and soil was cleared from the ground surface at each sample location and a small hole was dug to a depth of approximately six inches, to first encountered native soil, with hand tools. A hand shovel was then used to scrape soil from the sides of the hole at a depth of approximately six inches and transfer the soil to clean, laboratory-supplied, glass jars. Upon collection, each sample was labeled with the project name, project number, and the sampling date and time. After labeling, each sample was placed into an insulated, chilled ice chest containing ice for transport to the analytical laboratory. Chain-of-custody documentation, a copy of which is included in Appendix A, was prepared and accompanied the samples to the analytical laboratory.

3.3 Laboratory Analysis

The soil samples were submitted to a State of California certified laboratory, Torrent Laboratory of Milpitas, California. Four discrete soil samples were analyzed for arsenic using US EPA Testing Method 6010B. Four composite soil samples were analyzed for OCPs using US EPA Testing Method 8081A. The OCP analysis includes testing for common persistent pesticides encountered in the Bay Area, including Dichlorodiphenyltrichloroethane (DDT), Dichlorodiphenyldichlorethylene (DDE), and Dichlorodiphenyldichloroethane (DDD), chlordane, and dieldrin, among others. Chain-of-custody documentation and the certified analytical reports are provided in Appendix A.

4.0 FINDINGS

For purposes of providing context to the data obtained during this investigation, analytical results were compared to the San Francisco Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) July 2019, Revision 2, for a residential and commercial/industrial land use scenario. The ESLs are considered to be conservative. Under most circumstances, and within the limitations described in the ESLs, the presence of a chemical in soil at concentrations below the corresponding ESL may be assumed to not pose a significant threat to human health and the environment. Additional evaluation may be necessary at sites where a chemical is present at concentrations above the corresponding ESL.

In addition to evaluating the soil analytical results for metals from this investigation to their regulatory comparison values, the arsenic analytical results were also compared to the background concentrations of metals that naturally exist in California soils. A study entitled *Background Concentrations of Trace Major Elements in California Soils*, dated March 1996, by the Kearney Foundation of Soil Science was also reviewed for information on the concentrations of background metals in California soils. The Kearney report is a relevant source used by public policy makers and by those in the private sector concerned with environmental remediation and land-use planning.

Tables 1 and 2 present a summary of the soil sample analytical results. The results can be further summarized as follows:

- Arsenic was detected in all four soil samples collected and analyzed at concentrations ranging from 4.93 mg/kg in sample SB-4b to 7.70 mg/kg in sample SB-1c. The detected concentrations in each sample exceed the residential ESL of 0.067 mg/kg and the commercial/industrial ESL of 0.31 mg/kg; however, the concentrations are below the upper bound range typically considered representative of naturally occurring background concentration commonly found in California soils of 11.0 mg/kg.
- DDE was detected in soil samples SB-1a,1b,1c, SB-2a,2b,2c,2d, SB-3a,3b,3c, and SB-4a,4b,4c,4d, with a maximum concentration of 0.0197 milligrams per kilogram (mg/kg) detected in soil sample SB-4a,4b,4c,4d. The detected concentrations are below the residential direct exposure ESL of 1.8 mg/kg and the commercial/industrial ESL of 8.3mg/kg.
- DDT was detected in soil sample SB-4a,4b,4c,4d at a concentration of 0.0078 mg/kg. The detected concentration is below the residential direct exposure limit of 1.9 mg/kg and the commercial/industrial ESL of 8.5 mg/kg.
- The remaining OCPs did not yield concentrations above their respective laboratory method detection limits (MDLs).

5.0 SUMMARY AND CONCLUSIONS

AEI has completed a Limited Agriculture Investigation at the Site as described above. The purpose of the investigation is to assess shallow soil for potential presence of residual common pesticides and arsenic associated with historic agricultural use of the Site. Fourteen shallow soil samples were collected during the investigation. Four discrete soil samples were analyzed for arsenic and four composite soil samples were analyzed for OCPs. Results from this investigation are summarized as follows:

- With the exception of DDE and DDT, no OCPs were detected at concentration above the laboratory MDLs. DDE and DDT were detected below their respective residential and commercial/industrial ESLs.
- Arsenic was detected in each of the four samples at maximum concentration of 7.70 mg/kg. The detections of arsenic are above the applicable residential and commercial/industrial ESLs; however, all detections are below the maximum naturally existing background concentration commonly found in California.

Based on the results summarized above, no concentrations of OCPs or arsenic were detected above the appliable ESLs and/or background concentrations and AEI recommends no further assessment or remediation in the sampled area.

6.0 REFERENCES

AEI, 2024, *Phase I Environmental Site Assessment, Oka Road, Los Gatos, Santa Clara County, California 95032*, dated June 27, 2024.

California Department of Toxic Substances Control (DTSC), 2008, *Interim Guidance for Sampling Agricultural Properties (Third Revision)*, dated August 7.

San Francisco Bay Regional Water Quality Control Board (SFBRWQCB), 2019, *Environmental Screening Levels*, dated July 2019, revision 2.

Duverg□, D.J., 2011. Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region, San Francisco State University, MS Thesis. December.

G. R. Bradford, A. C. Change1, A. L. Page, D. Bakhtar, J. A. Frampton, and H. Wright, 1996. *Background Concentrations of Trace and Major Elements in California Soils, Kearney Foundation of Soil Science Division of Agricultural and Natural Resources University of California*, March.

7.0 REPORT LIMITATIONS AND RELIANCE

This report presents a summary of work completed by AEI Consultants. The completed work includes observations and descriptions of site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide the requested information, subject to scope of work for which AEI was retained and limitations inherent in this type of work, but it cannot be assumed that they are representative of areas not sampled. This report should not be regarded as a guarantee that no further contamination beyond that which could have been detected within the scope of this investigation is present beneath the Site. Undocumented, unauthorized releases of hazardous material, the remains of which are not readily identifiable by visual inspection and are of different chemical constituents, are difficult and often impossible to detect within the scope of a chemical specific investigation.

Any conclusions and/or recommendations are based on these analyses and observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document. These services were performed in accordance with generally accepted practices, in the environmental engineering and construction field, which existed at the time and location of the work. No other warranty, either expressed or implied, has been made.

This investigation was prepared for the sole use and benefit of David J. Powers & Associates. Both verbal and written, whether in draft or final, are for the benefit of David J. Powers & Associates. This report has no other purpose and may not be relied upon by any other person or entity without the written consent of AEI. Either verbally or in writing, third parties may come into possession of this report or all or part of the information generated as a result of this work. In the absence of a written agreement with AEI granting such rights, no third parties shall have rights of recourse or recovery whatsoever under any course of action against AEI, its officers, employees, vendors, successors or assigns. Reliance is provided in accordance with AEI's Proposal and Standard Terms & Conditions executed by David J. Powers & Associates. The limitation of liability defined in the Terms and Conditions is the aggregate limit of AEI's liability to the client and all relying parties.

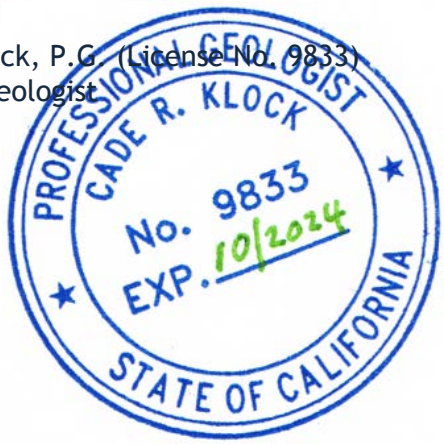
8.0 SIGNATURES

This report was prepared by, or under the direction of, the undersigned.

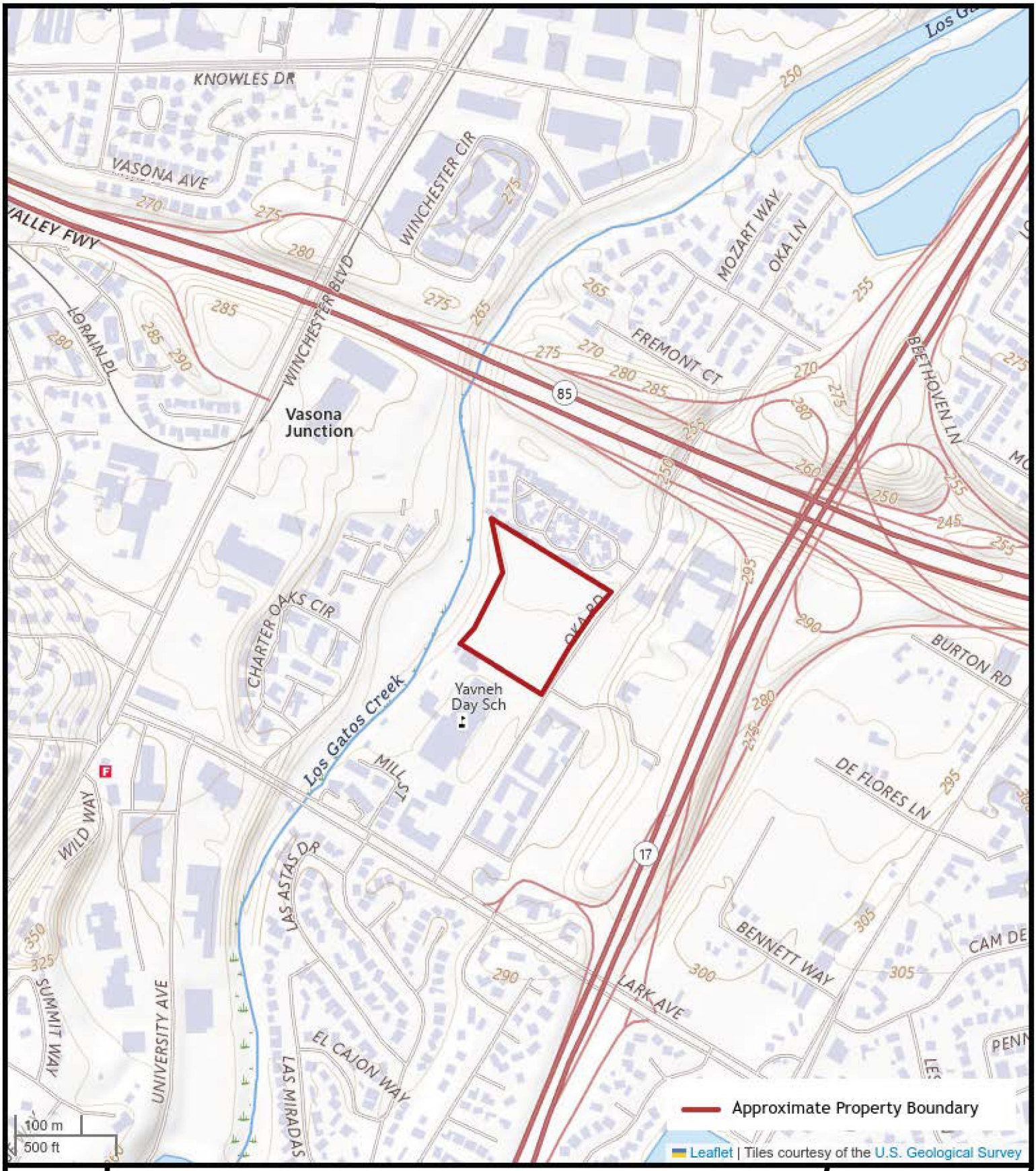
Kristina Borg

Kristina Borg
Project Geologist I

Cade Klock, P.G. (License No. 9833)
Senior Geologist



Figures



N

FIGURE 1: TOPOGRAPHIC MAP

Oka Road (Vacant Land), Los Gatos, California 95032
AEI Project Number: 494888

AEI

*Figure not OCR compatible.



LEGEND

- Approximate Site Boundary
- Soil Boring Location
  SB-4d

SITE MAP

AEI

Oka Road
Los Gatos, California 95032

FIGURE 2
Project No. 494888

Tables

TABLE 1: SOIL SAMPLE DATA SUMMARY - ORGANOCHLORINE PESTICIDES
APN: 424-08-035 and 424-08-074
Oka Road
Los Gatos, California 95032

Location ID	Composite Sample ID (SB)	Date	Depth (feet bgs)	4,4-DDE (mg/kg)	4,4-DDT (mg/kg)	Other OCPs (mg/kg)
SB-1	1a, 1b, 1c	7/16/2024	0.5	0.0147 J	ND<0.0074	ND<MDL
SB-2	2a, 2b, 2c, 2d	7/16/2024	0.5	0.00935 J	ND<0.0074	ND<MDL
SB-3	3a, 3b, 3c	7/16/2024	0.5	0.0107 J	ND<0.0074	ND<MDL
SB-4	4a, 4b, 4c, 4d	7/16/2024	0.5	0.0197 J	0.0078 J	ND<MDL
Comparison Values:						
ESLs Table S-1, Direct Exposure, Residential, Rev. 2, issued by the San Francisco Bay Regional Water Quality Control Board, July 2019				1.8	1.9	Various
ESLs Table S-1, Direct Exposure, Commercial/Industrial, Rev. 2, issued by the San Francisco Bay Regional Water Quality Control Board, July 2019				8.3	8.5	Various

Notes:

mg/kg	Milligrams per kilogram
bgs	Below ground surface
ND<	Not Detected above the method detection limit (MDL), shown
ESLs	Environmental Screening Levels
J	Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
DDE	Dichlorodiphenyldichloroethylene
DDT	Dichlorodiphenyltrichloroethane
MDL	Method Detection Limit
PQL	Practical Quantitative Limit

TABLE 2: SOIL SAMPLE DATA SUMMARY - ARSENIC
APN: 424-08-035 and 424-08-074
Oka Road
Los Gatos, California 95032

Location ID	Date	Depth (feet bgs)	Arsenic (As) (mg/kg)
SB-1a	7/16/2024	0.5	--
SB-1b	7/16/2024	0.5	--
SB-1c	7/16/2024	0.5	**7.70**
SB-2a	7/16/2024	0.5	**5.00**
SB-2b	7/16/2024	0.5	--
SB-2c	7/16/2024	0.5	--
SB-2d	7/16/2024	0.5	--
SB-3a	7/16/2024	0.5	--
SB-3b	7/16/2024	0.5	**5.15**
SB-3c	7/16/2024	0.5	--
SB-4a	7/16/2024	0.5	--
SB-4b	7/16/2024	0.5	**4.93**
SB-4c	7/16/2024	0.5	--
SB-4d	7/16/2024	0.5	--

Comparison Values:	
ESL Direct Exposure - R	0.067
ESL Direct Exposure - C/I	0.310
[1] Established Background Concentrations	11.0

Notes:

mg/kg	Milligrams per kilogram
bgs	Below ground surface
--	Not analyzed
Bold	Result exceeds a regulatory screening level
[1]	Typically ranges between 1.2 to 11 mg/kg in the San Francisco Bay area (California; see complete reference, below)

Comparison Values:

Environmental Screening Levels (ESLs)	Residential Use - Direct Exposure human health risk levels from Summary Tables (Rev. 2, July 2019), issued by the San Francisco Bay Regional Water Quality Control Board
Environmental Screening Levels (ESLs)	Commercial/Industrial Use - Direct Exposure human health risk levels from Summary Tables (Rev. 2, July 2019), issued by the San Francisco Bay Regional Water Quality Control Board
[1] Established Background Concentrations	"Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region". Dec. 2011, D.J. Duvergé and "Background Concentrations of Trace and Major Elements in California Soils". Mar. 1996, G.R. Bradford, et.al., at the Kearney Foundation of Soil Science, University of California

Appendix A

Laboratory Analytical Reports

AEI Consultants -San Jose
3880 S. Bascom Avenue, Suite 109
San Jose, CA 95124, California 95124
Tel: 408.728.2907
Fax: 408.559.7601

RE: UC OKA ROAD LLC

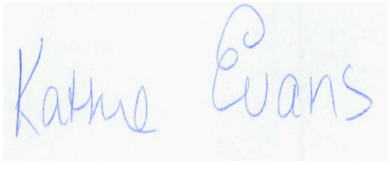
Work Order No.: 2407116

Dear Kristina Borg:

Torrent Laboratory, Inc. received 14 sample(s) on July 16, 2024 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.



Kathie Evans
Project Manager

July 19, 2024
Date

Date: 7/19/2024

Client: AEI Consultants -San Jose

Project: UC OKA ROAD LLC

Work Order: 2407116

CASE NARRATIVE

Unless otherwise indicated in the following narrative, no issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Laboratory, Inc.

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Kristina Borg
AEI Consultants -San Jose

Date Received: 07/16/24
Date Reported: 07/19/24

SB-1c 2407116-003

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.15	1.3	7.70	mg/Kg

SB-2a 2407116-004

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.15	1.3	5.00	mg/Kg

SB-3b 2407116-009

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.15	1.3	5.15	mg/Kg

SB-4b 2407116-012

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.15	1.3	4.93	mg/Kg

Composite: SB-1a, 1b, 1c 2407116-015

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
4,4'-DDE	SW8081B	10	6.1	20	14.7	ug/Kg

Composite: SB-2a, 2b, 2c, 2d 2407116-016

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
4,4'-DDE	SW8081B	10	6.1	20	9.35	ug/Kg

Composite: SB-3a, 3b, 3c 2407116-017

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
4,4'-DDE	SW8081B	10	6.1	20	10.7	ug/Kg

Composite: SB-4a, 4b, 4c, 4d 2407116-018

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
4,4'-DDE	SW8081B	10	6.1	20	19.7	ug/Kg
4,4-DDT	SW8081B	10	7.4	20	7.80	ug/Kg

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Kristina Borg
AEI Consultants -San Jose

Date/Time Received: 07/16/24, 4:08 pm
Date Reported: 07/19/24

Client Sample ID:	SB-1c	**Lab Sample ID:**	2407116-003A
Project Name/Location:	UC OKA ROAD LLC	**Sample Matrix:**	Soil
Project Number:	494888		
Date/Time Sampled:	07/16/24 / 13:25		
SDG:			

Prep Method:	3050B	**Prep Batch Date/Time:**	7/18/24 1:00:00PM
Prep Batch ID:	1162385	**Prep Analyst:**	KAURN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	SW6010B	1	0.15	1.3	**7.70**		mg/Kg	07/18/24	18:20	GS	485599

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Kristina Borg
AEI Consultants -San Jose

Date/Time Received: 07/16/24, 4:08 pm
Date Reported: 07/19/24

Client Sample ID:	SB-2a	**Lab Sample ID:**	2407116-004A
Project Name/Location:	UC OKA ROAD LLC	**Sample Matrix:**	Soil
Project Number:	494888		
Date/Time Sampled:	07/16/24 / 13:50		
SDG:			

Prep Method:	3050B	**Prep Batch Date/Time:**	7/18/24 1:00:00PM
Prep Batch ID:	1162385	**Prep Analyst:**	KAURN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	SW6010B	1	0.15	1.3	**5.00**		mg/Kg	07/18/24	18:25	GS	485599

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Kristina Borg
AEI Consultants -San Jose

Date/Time Received: 07/16/24, 4:08 pm
Date Reported: 07/19/24

Client Sample ID:	SB-3b	**Lab Sample ID:**	2407116-009A
Project Name/Location:	UC OKA ROAD LLC	**Sample Matrix:**	Soil
Project Number:	494888		
Date/Time Sampled:	07/16/24 / 14:40		
SDG:			

Prep Method:	3050B	**Prep Batch Date/Time:**	7/18/24 1:00:00PM
Prep Batch ID:	1162385	**Prep Analyst:**	KAURN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	SW6010B	1	0.15	1.3	**5.15**		mg/Kg	07/18/24	18:26	GS	485599

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Kristina Borg
AEI Consultants -San Jose

Date/Time Received: 07/16/24, 4:08 pm
Date Reported: 07/19/24

Client Sample ID:	SB-4b	**Lab Sample ID:**	2407116-012A
Project Name/Location:	UC OKA ROAD LLC	**Sample Matrix:**	Soil
Project Number:	494888		
Date/Time Sampled:	07/16/24 / 15:10		
SDG:			

Prep Method:	3050B	**Prep Batch Date/Time:**	7/18/24	1:00:00PM
Prep Batch ID:	1162385	**Prep Analyst:**	KAURN	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	SW6010B	1	0.15	1.3	**4.93**		mg/Kg	07/18/24	18:28	GS	485599

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Kristina Borg
AEI Consultants -San Jose

Date/Time Received: 07/16/24, 4:08 pm
Date Reported: 07/19/24

Client Sample ID:	Composite: SB-1a, 1b, 1c	**Lab Sample ID:**	2407116-015A
Project Name/Location:	UC OKA ROAD LLC	**Sample Matrix:**	Soil
Project Number:	494888		
Date/Time Sampled:	07/16/24 /		
SDG:			

Prep Method:	3546_OCP	**Prep Batch Date/Time:**	7/17/24 10:04:00AM
Prep Batch ID:	1162343	**Prep Analyst:**	MSAT

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
alpha-BHC	SW8081B	10	2.5	20	ND		ug/Kg	07/17/24	16:33	LA	485554
gamma-BHC (Lindane)	SW8081B	10	7.1	20	ND		ug/Kg	07/17/24	16:33	LA	485554
beta-BHC	SW8081B	10	4.4	20	ND		ug/Kg	07/17/24	16:33	LA	485554
delta-BHC	SW8081B	10	6.5	20	ND		ug/Kg	07/17/24	16:33	LA	485554
Heptachlor	SW8081B	10	2.7	20	ND		ug/Kg	07/17/24	16:33	LA	485554
Aldrin	SW8081B	10	2.9	20	ND		ug/Kg	07/17/24	16:33	LA	485554
Heptachlor Epoxide	SW8081B	10	3.1	20	ND		ug/Kg	07/17/24	16:33	LA	485554
gamma-Chlordane	SW8081B	10	15	30	ND		ug/Kg	07/17/24	16:33	LA	485554
alpha-Chlordane	SW8081B	10	3.6	20	ND		ug/Kg	07/17/24	16:33	LA	485554
4,4'-DDE	SW8081B	10	6.1	20	**14.7**	J	ug/Kg	07/17/24	16:33	LA	485554
Endosulfan I	SW8081B	10	2.9	20	ND		ug/Kg	07/17/24	16:33	LA	485554
Dieldrin	SW8081B	10	2.5	20	ND		ug/Kg	07/17/24	16:33	LA	485554
Endrin	SW8081B	10	7.9	20	ND		ug/Kg	07/17/24	16:33	LA	485554
4,4'-DDD	SW8081B	10	6.4	20	ND		ug/Kg	07/17/24	16:33	LA	485554
Endosulfan II	SW8081B	10	3.4	20	ND		ug/Kg	07/17/24	16:33	LA	485554
4,4-DDT	SW8081B	10	7.4	20	ND		ug/Kg	07/17/24	16:33	LA	485554
Endrin Aldehyde	SW8081B	10	5.1	20	ND		ug/Kg	07/17/24	16:33	LA	485554
Methoxychlor	SW8081B	10	26	60	ND		ug/Kg	07/17/24	16:33	LA	485554
Endosulfan Sulfate	SW8081B	10	5.1	20	ND		ug/Kg	07/17/24	16:33	LA	485554
Endrin Ketone	SW8081B	10	4.3	20	ND		ug/Kg	07/17/24	16:33	LA	485554
Chlordane, Technical	SW8081B	10	27	200	ND		ug/Kg	07/17/24	16:33	LA	485554
Toxaphene	SW8081B	10	220	500	ND		ug/Kg	07/17/24	16:33	LA	485554
			Acceptance Limits								
Tetrachloro-M-Xylene (S)	SW8081B		48 - 125		**72.3**		%	07/17/24	16:33	LA	485554
Decachlorobiphenyl (S)	SW8081B		38 - 135		**76.1**		%	07/17/24	16:33	LA	485554

NOTE: Sample diluted due to the nature of the sample matrix (dark colored extract)

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Kristina Borg
AEI Consultants -San Jose

Date/Time Received: 07/16/24, 4:08 pm
Date Reported: 07/19/24

Client Sample ID:	Composite: SB-2a, 2b, 2c, 2d	**Lab Sample ID:**	2407116-016A
Project Name/Location:	UC OKA ROAD LLC	**Sample Matrix:**	Soil
Project Number:	494888		
Date/Time Sampled:	07/16/24 /		
SDG:			

Prep Method:	3546_OCP	**Prep Batch Date/Time:**	7/17/24 10:04:00AM
Prep Batch ID:	1162343	**Prep Analyst:**	MSAT

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
alpha-BHC	SW8081B	10	2.5	20	ND		ug/Kg	07/17/24	16:50	LA	485554
gamma-BHC (Lindane)	SW8081B	10	7.1	20	ND		ug/Kg	07/17/24	16:50	LA	485554
beta-BHC	SW8081B	10	4.4	20	ND		ug/Kg	07/17/24	16:50	LA	485554
delta-BHC	SW8081B	10	6.5	20	ND		ug/Kg	07/17/24	16:50	LA	485554
Heptachlor	SW8081B	10	2.7	20	ND		ug/Kg	07/17/24	16:50	LA	485554
Aldrin	SW8081B	10	2.9	20	ND		ug/Kg	07/17/24	16:50	LA	485554
Heptachlor Epoxide	SW8081B	10	3.1	20	ND		ug/Kg	07/17/24	16:50	LA	485554
gamma-Chlordane	SW8081B	10	15	30	ND		ug/Kg	07/17/24	16:50	LA	485554
alpha-Chlordane	SW8081B	10	3.6	20	ND		ug/Kg	07/17/24	16:50	LA	485554
4,4'-DDE	SW8081B	10	6.1	20	**9.35**	J	ug/Kg	07/17/24	16:50	LA	485554
Endosulfan I	SW8081B	10	2.9	20	ND		ug/Kg	07/17/24	16:50	LA	485554
Dieldrin	SW8081B	10	2.5	20	ND		ug/Kg	07/17/24	16:50	LA	485554
Endrin	SW8081B	10	7.9	20	ND		ug/Kg	07/17/24	16:50	LA	485554
4,4'-DDD	SW8081B	10	6.4	20	ND		ug/Kg	07/17/24	16:50	LA	485554
Endosulfan II	SW8081B	10	3.4	20	ND		ug/Kg	07/17/24	16:50	LA	485554
4,4-DDT	SW8081B	10	7.4	20	ND		ug/Kg	07/17/24	16:50	LA	485554
Endrin Aldehyde	SW8081B	10	5.1	20	ND		ug/Kg	07/17/24	16:50	LA	485554
Methoxychlor	SW8081B	10	26	60	ND		ug/Kg	07/17/24	16:50	LA	485554
Endosulfan Sulfate	SW8081B	10	5.1	20	ND		ug/Kg	07/17/24	16:50	LA	485554
Endrin Ketone	SW8081B	10	4.3	20	ND		ug/Kg	07/17/24	16:50	LA	485554
Chlordane, Technical	SW8081B	10	27	200	ND		ug/Kg	07/17/24	16:50	LA	485554
Toxaphene	SW8081B	10	220	500	ND		ug/Kg	07/17/24	16:50	LA	485554
			Acceptance Limits								
Tetrachloro-M-Xylene (S)	SW8081B		48 - 125		**61.1**		%	07/17/24	16:50	LA	485554
Decachlorobiphenyl (S)	SW8081B		38 - 135		**64.6**		%	07/17/24	16:50	LA	485554

NOTE: Sample diluted due to the nature of the sample matrix (dark colored extract)

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Kristina Borg
AEI Consultants -San Jose

Date/Time Received: 07/16/24, 4:08 pm
Date Reported: 07/19/24

Client Sample ID:	Composite: SB-3a, 3b, 3c	**Lab Sample ID:**	2407116-017A
Project Name/Location:	UC OKA ROAD LLC	**Sample Matrix:**	Soil
Project Number:	494888		
Date/Time Sampled:	07/16/24 /		
SDG:			

Prep Method:	3546_OCP	**Prep Batch Date/Time:**	7/17/24 10:04:00AM
Prep Batch ID:	1162343	**Prep Analyst:**	MSAT

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
alpha-BHC	SW8081B	10	2.5	20	ND		ug/Kg	07/17/24	17:06	LA	485554
gamma-BHC (Lindane)	SW8081B	10	7.1	20	ND		ug/Kg	07/17/24	17:06	LA	485554
beta-BHC	SW8081B	10	4.4	20	ND		ug/Kg	07/17/24	17:06	LA	485554
delta-BHC	SW8081B	10	6.5	20	ND		ug/Kg	07/17/24	17:06	LA	485554
Heptachlor	SW8081B	10	2.7	20	ND		ug/Kg	07/17/24	17:06	LA	485554
Aldrin	SW8081B	10	2.9	20	ND		ug/Kg	07/17/24	17:06	LA	485554
Heptachlor Epoxide	SW8081B	10	3.1	20	ND		ug/Kg	07/17/24	17:06	LA	485554
gamma-Chlordane	SW8081B	10	15	30	ND		ug/Kg	07/17/24	17:06	LA	485554
alpha-Chlordane	SW8081B	10	3.6	20	ND		ug/Kg	07/17/24	17:06	LA	485554
4,4'-DDE	SW8081B	10	6.1	20	**10.7**	J	ug/Kg	07/17/24	17:06	LA	485554
Endosulfan I	SW8081B	10	2.9	20	ND		ug/Kg	07/17/24	17:06	LA	485554
Dieldrin	SW8081B	10	2.5	20	ND		ug/Kg	07/17/24	17:06	LA	485554
Endrin	SW8081B	10	7.9	20	ND		ug/Kg	07/17/24	17:06	LA	485554
4,4'-DDD	SW8081B	10	6.4	20	ND		ug/Kg	07/17/24	17:06	LA	485554
Endosulfan II	SW8081B	10	3.4	20	ND		ug/Kg	07/17/24	17:06	LA	485554
4,4-DDT	SW8081B	10	7.4	20	ND		ug/Kg	07/17/24	17:06	LA	485554
Endrin Aldehyde	SW8081B	10	5.1	20	ND		ug/Kg	07/17/24	17:06	LA	485554
Methoxychlor	SW8081B	10	26	60	ND		ug/Kg	07/17/24	17:06	LA	485554
Endosulfan Sulfate	SW8081B	10	5.1	20	ND		ug/Kg	07/17/24	17:06	LA	485554
Endrin Ketone	SW8081B	10	4.3	20	ND		ug/Kg	07/17/24	17:06	LA	485554
Chlordane, Technical	SW8081B	10	27	200	ND		ug/Kg	07/17/24	17:06	LA	485554
Toxaphene	SW8081B	10	220	500	ND		ug/Kg	07/17/24	17:06	LA	485554
			Acceptance Limits								
Tetrachloro-M-Xylene (S)	SW8081B		48 - 125		**72.8**		%	07/17/24	17:06	LA	485554
Decachlorobiphenyl (S)	SW8081B		38 - 135		**76.3**		%	07/17/24	17:06	LA	485554

NOTE: Sample diluted due to the nature of the sample matrix (dark colored extract)

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Kristina Borg
AEI Consultants -San Jose

Date/Time Received: 07/16/24, 4:08 pm
Date Reported: 07/19/24

Client Sample ID:	Composite: SB-4a, 4b, 4c, 4d	**Lab Sample ID:**	2407116-018A
Project Name/Location:	UC OKA ROAD LLC	**Sample Matrix:**	Soil
Project Number:	494888		
Date/Time Sampled:	07/16/24 /		
SDG:			

Prep Method:	3546_OCP	**Prep Batch Date/Time:**	7/17/24 10:04:00AM
Prep Batch ID:	1162343	**Prep Analyst:**	MSAT

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
alpha-BHC	SW8081B	10	2.5	20	ND		ug/Kg	07/17/24	17:22	LA	485554
gamma-BHC (Lindane)	SW8081B	10	7.1	20	ND		ug/Kg	07/17/24	17:22	LA	485554
beta-BHC	SW8081B	10	4.4	20	ND		ug/Kg	07/17/24	17:22	LA	485554
delta-BHC	SW8081B	10	6.5	20	ND		ug/Kg	07/17/24	17:22	LA	485554
Heptachlor	SW8081B	10	2.7	20	ND		ug/Kg	07/17/24	17:22	LA	485554
Aldrin	SW8081B	10	2.9	20	ND		ug/Kg	07/17/24	17:22	LA	485554
Heptachlor Epoxide	SW8081B	10	3.1	20	ND		ug/Kg	07/17/24	17:22	LA	485554
gamma-Chlordane	SW8081B	10	15	30	ND		ug/Kg	07/17/24	17:22	LA	485554
alpha-Chlordane	SW8081B	10	3.6	20	ND		ug/Kg	07/17/24	17:22	LA	485554
4,4'-DDE	SW8081B	10	6.1	20	**19.7**	J	ug/Kg	07/17/24	17:22	LA	485554
Endosulfan I	SW8081B	10	2.9	20	ND		ug/Kg	07/17/24	17:22	LA	485554
Dieldrin	SW8081B	10	2.5	20	ND		ug/Kg	07/17/24	17:22	LA	485554
Endrin	SW8081B	10	7.9	20	ND		ug/Kg	07/17/24	17:22	LA	485554
4,4'-DDD	SW8081B	10	6.4	20	ND		ug/Kg	07/17/24	17:22	LA	485554
Endosulfan II	SW8081B	10	3.4	20	ND		ug/Kg	07/17/24	17:22	LA	485554
4,4-DDT	SW8081B	10	7.4	20	**7.80**	J	ug/Kg	07/17/24	17:22	LA	485554
Endrin Aldehyde	SW8081B	10	5.1	20	ND		ug/Kg	07/17/24	17:22	LA	485554
Methoxychlor	SW8081B	10	26	60	ND		ug/Kg	07/17/24	17:22	LA	485554
Endosulfan Sulfate	SW8081B	10	5.1	20	ND		ug/Kg	07/17/24	17:22	LA	485554
Endrin Ketone	SW8081B	10	4.3	20	ND		ug/Kg	07/17/24	17:22	LA	485554
Chlordane, Technical	SW8081B	10	27	200	ND		ug/Kg	07/17/24	17:22	LA	485554
Toxaphene	SW8081B	10	220	500	ND		ug/Kg	07/17/24	17:22	LA	485554
			Acceptance Limits								
Tetrachloro-M-Xylene (S)	SW8081B		48 - 125		**75.2**		%	07/17/24	17:22	LA	485554
Decachlorobiphenyl (S)	SW8081B		38 - 135		**71.5**		%	07/17/24	17:22	LA	485554

NOTE: Sample diluted due to the nature of the sample matrix (dark colored extract)

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	2407116	**Prep Method:**	3546_OCP	**Prep Date:**	07/17/24	**Prep Batch:**	1162343
Matrix:	Soil	**Analytical Method:**	SW8081B	**Analyzed Date:**	7/17/2024	**Analytical Batch:**	485554
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
alpha-BHC	0.25	2.0	ND	
gamma-BHC (Lindane)	0.71	2.0	ND	
beta-BHC	0.44	2.0	ND	
delta-BHC	0.65	2.0	ND	
Heptachlor	0.27	2.0	ND	
Aldrin	0.29	2.0	ND	
Heptachlor Epoxide	0.31	2.0	ND	
gamma-Chlordane	1.5	3.0	ND	
alpha-Chlordane	0.36	2.0	ND	
4,4'-DDE	0.61	2.0	ND	
Endosulfan I	0.29	2.0	ND	
Dieldrin	0.25	2.0	ND	
Endrin	0.79	2.0	ND	
4,4'-DDD	0.64	2.0	ND	
Endosulfan II	0.34	2.0	ND	
4,4-DDT	0.74	2.0	ND	
Endrin Aldehyde	0.51	2.0	ND	
Methoxychlor	2.6	6.0	ND	
Endosulfan Sulfate	0.51	2.0	ND	
Endrin Ketone	0.43	2.0	ND	
Chlordane, Technical	2.7	20	ND	
Toxaphene	22	50	ND	
Tetrachloro-M-Xylene (S)			99.0	
Decachlorobiphenyl (S)			102	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	2407116	**Prep Method:**	3050B	**Prep Date:**	07/18/24	**Prep Batch:**	1162385
Matrix:	Soil	**Analytical Method:**	SW6010B	**Analyzed Date:**	7/18/2024	**Analytical Batch:**	485599
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Antimony	0.050	5.00	ND		
Arsenic	0.15	1.30	0.16		
Barium	0.055	5.00	0.15		
Beryllium	0.055	5.00	0.11		
Cadmium	0.10	0.750	0.11		
Chromium	0.075	5.00	0.14		
Cobalt	0.070	5.00	0.11		
Copper	0.20	5.00	ND		
Lead	0.10	3.00	0.12		
Molybdenum	0.050	5.00	0.13		
Nickel	0.50	5.00	ND		
Selenium	0.35	1.10	ND		
Silver	0.15	0.500	ND		
Thallium	0.55	5.00	ND		
Vanadium	0.10	5.00	0.13		
Zinc	0.30	5.00	ND		

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2407116	**Prep Method:**	3546_OCP	**Prep Date:**	07/17/24	**Prep Batch:**	1162343
Matrix:	Soil	**Analytical Method:**	SW8081B	**Analyzed Date:**	7/17/2024	**Analytical Batch:**	485554
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC (Lindane)	0.16	2.0	ND	40	88.9	91.3	2.50	25 - 135	30	
Heptachlor	0.11	2.0	ND	40	86.9	89.3	2.55	40 - 130	30	
Aldrin	0.20	2.0	ND	40	88.8	92.2	3.87	25 - 140	30	
Dieldrin	0.15	2.0	ND	40	87.2	89.1	1.99	60 - 130	30	
Heptachlor	0.19	2.0	ND	40	79.0	79.7	0.945	55 - 135	30	
4,4-DDT	0.13	2.0	ND	40	81.2	82.4	1.53	45 - 140	30	
Tetrachloro-M-Xylene (S)				100	90.1	88.8		48 - 125		
Decachlorobiphenyl (S)				100	94.5	95.0		38 - 135		

Work Order:	2407116	**Prep Method:**	3050B	**Prep Date:**	07/18/24	**Prep Batch:**	1162385
Matrix:	Soil	**Analytical Method:**	SW6010B	**Analyzed Date:**	7/18/2024	**Analytical Batch:**	485599
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.050	5.00	ND	50	96.6	97.0	0.413	80 - 120	30	
Arsenic	0.15	1.30	0.16	50	94.7	95.1	0.421	80 - 120	30	
Barium	0.055	5.00	0.15	50	103	103	0.000	80 - 120	30	
Beryllium	0.055	5.00	0.11	50	99.1	98.9	0.202	80 - 120	30	
Cadmium	0.10	0.750	0.11	50	98.4	98.3	0.000	80 - 120	30	
Chromium	0.075	5.00	0.14	50	101	101	0.000	80 - 120	30	
Cobalt	0.070	5.00	0.11	50	100	100	0.000	80 - 120	30	
Copper	0.20	5.00	ND	50	102	102	0.000	80 - 120	30	
Lead	0.10	3.00	0.12	50	101	100	0.995	80 - 120	30	
Molybdenum	0.050	5.00	0.13	50	102	102	0.000	80 - 120	30	
Nickel	0.50	5.00	ND	50	98.9	98.8	0.202	80 - 120	30	
Selenium	0.22	5.00	ND	50	89.3	90.1	0.891	80 - 120	30	
Silver	0.15	5.00	ND	50	98.4	98.3	0.000	80 - 120	30	
Thallium	0.20	5.00	ND	50	100	100	0.000	80 - 120	30	
Vanadium	0.10	5.00	0.13	50	102	102	0.000	80 - 120	30	
Zinc	0.30	5.00	ND	50	95.9	95.8	0.209	80 - 120	30	

Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - **mg/L** and ***mg/Kg*** (equivalent to PPM - parts per million in **liquid** and ***solid***), **ug/L** and ***ug/Kg*** (equivalent to PPB - parts per billion in **liquid** and ***solid***), **ug/m3**, ***mg/m3***, **ppbv** and ***ppmv*** (all units of measure for reporting concentrations in air), **%** (equivalent to 10000 ppm or 1,000,000 ppb), **ug/Wipe** (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

LABORATORY QUALIFIERS

B - Indicates when the analyte is found in the associated method or preparation blank
D - Surrogate is not recoverable due to the necessary dilution of the sample
E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
H- Indicates that the recommended holding time for the analyte or compound has been exceeded
J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
NA - Not Analyzed
N/A - Not Applicable
ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.
NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.

Sample Receipt Checklist

Client Name: AEI Consultants -San Jose

Project Name: UC OKA ROAD LLC

Work Order No.: 2407116

Date and Time Received: 7/16/2024 4:08:00PM

Received By: Claudia Moreno

Physically Logged By: Claudia Moreno

Checklist Completed By: Claudia Moreno

Carrier Name: Client Drop Off

Chain of Custody (COC) Information

Chain of custody present?	Yes
Chain of custody signed when relinquished and received?	Yes
Chain of custody agrees with sample labels?	Yes
Custody seals intact on sample bottles?	Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Not Present
Shipping Container/Cooler In Good Condition?	Yes
Samples in proper container/bottle?	Yes
Samples containers intact?	Yes
Sufficient sample volume for indicated test?	Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes			
Container/Temp Blank temperature in compliance?	Yes	Temperature:	4.0	°C
Water-VOA vials have zero headspace?	No VOA vials submitted			
Water-pH acceptable upon receipt?	N/A			

pH Checked by: N/A

pH Adjusted by: N/A

Comments:

Login Summary Report

Client ID: TL6454 AEI Consultants -San Jose
Project Name: UC OKA ROAD LLC
Project # : 494888
Report Due Date: 7/19/2024
Comments:
Work Order # : ***2407116***

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 7/16/2024
Time Received: 4:08 pm

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
2407116-001A	SB-1a	07/16/24 13:45	Soil	01/12/25			Composite	
2407116-002A	SB-1b	07/16/24 13:35	Soil	01/12/25			Composite	
2407116-003A	SB-1c	07/16/24 13:25	Soil	01/12/25			Met_S_As Pb Composite	
Sample Note:	6010 metals are for As							
2407116-004A	SB-2a	07/16/24 13:50	Soil	01/12/25			Met_S_As Pb Composite	
2407116-005A	SB-2b	07/16/24 14:00	Soil	01/12/25			Composite	
2407116-006A	SB-2c	07/16/24 14:10	Soil	01/12/25			Composite	
2407116-007A	SB-2d	07/16/24 14:20	Soil	01/12/25			Composite	
2407116-008A	SB-3a	07/16/24 14:50	Soil	01/12/25			Composite	
2407116-009A	SB-3b	07/16/24 14:40	Soil	01/12/25			Met_S_As Pb Composite	
2407116-010A	SB-3c	07/16/24 14:30	Soil	01/12/25			Composite	
2407116-011A	SB-4a	07/16/24 15:00	Soil	01/12/25			Composite	
2407116-012A	SB-4b	07/16/24 15:10	Soil	01/12/25			Met_S_As Pb Composite	
2407116-013A	SB-4c	07/16/24 15:20	Soil	01/12/25			Composite	
2407116-014A	SB-4d	07/16/24 15:30	Soil	01/12/25			Composite	
2407116-015A	Composite: SB-1a, 1b, 1c	07/16/24	Soil	01/12/25			Pest_S_8081OCP	

Login Summary Report

Client ID: TL6454 AEI Consultants -San Jose
Project Name: UC OKA ROAD LLC
Project # : 494888
Report Due Date: 7/19/2024
QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 7/16/2024
Time Received: 4:08 pm

Comments:

Work Order # : ***2407116***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
2407116-016A	Composite: SB-2a, 2b, 2c, 2d	07/16/24	Soil	01/12/25			Pest_S_8081OCP	
2407116-017A	Composite: SB-3a, 3b, 3c	07/16/24	Soil	01/12/25			Pest_S_8081OCP	
2407116-018A	Composite: SB-4a, 4b, 4c, 4d	07/16/24	Soil	01/12/25			Pest_S_8081OCP	

Torrent LABORATORY, INC.

Torrent LABORATORY, INC.
483 Sinclair Frontage Road
Milpitas, CA 95035
Phone: 408.263.5258
FAX: 408.263.8293
www.torrentlab.com

CHAIN OF CUSTODY

Reset • NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

LAB WORK ORDER NO: 2407116

Company Name: AEI ☑ Env. ☐ Non Env.			Project #: 494888 PO#: 373314
Address: 3880 South Bascom Road #104			Project Name: UC OKA ROAD LLC
City: San Jose	State: CA	Zip Code: 95124	Comments:
Telephone: 650.333.4445	Cell: 650.333.4445		SAMPLER: K. Borg
REPORT TO: Kristina Borg	BILL TO: AEI		EMAIL: kborg@aeiconsultants.com

TURNAROUND TIME: STD.
☐ 2 - 8 Hours ☐ 2 Work Days ☐ 5 Work Days
☐ Noon - Nxt Day ☒ 3 Work Days ☐ 7 Work Days
☐ 1 Work Day ☐ 4 Work Days ☐ 10 Work Days

SAMPLE TYPE:
☐ Drinking Water ☐ Storm Water ☐ Air ☐ Waste Water ☐ Wipe ☐ Ground Water ☐ Other ☒ Soil ☐ Product / Bulk

REPORT FORMAT:
☒ Level II - Std. ☐ DoD/DoE Level III ☐ DoD/DoE Level III ☐ Excel - EDD ☐ EDF ☐ Client Specific EDD

ANALYSIS REQUESTED

LAB ID	CANISTER I.D.	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	Arsenic 6010B (discrete)	OCPs (LOW LEVEL) 8081A (composite)	REMARKS
001	015	SB-1a	7/16/2024 1345	S	1	glass jar		X	Composite: SB-1a, SB-1b, SB-1c
002		SB-1b	1335						
003		SB-1c	1325				X		
004	016	SB-2a	1350				X	X	Composite: SB-2a, SB-2b, SB-2c, SB-2d
005		SB-2b	1400						
006		SB-2c	1410						
007		SB-2d	1420						
008	017	SB-3a	1450					X	Composite: SB-3a, SB-3b, SB-3c
009		SB-3b	1440				X		
010		SB-3c	1430						

	Relinquished By:	Print:	Date:	Time:	Received By:	Print:	Date:	Time:
1	Kristina Borg	Kristina Borg	7/16/2024	1608	[signature]	L. D. Imbat	7-16-24	1608
2	Relinquished By:	Print:	Date:	Time:	Received By:	Print:	Date:	Time:

Cooler Temperature 4.2 #3 °C Samples Received on ice? Yes ☑ No ☐ Method of Shipment D/O

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made.

QA-F-065, Rev 1.0, TLICD-959

Page 1 of 2

Torrent LABORATORY, INC.

Torrent LABORATORY, INC.
483 Sinclair Frontage Road
Milpitas, CA 95035
Phone: 408.263.5258
FAX: 408.263.8293
www.torrentlab.com

CHAIN OF CUSTODY

Reset

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

LAB WORK ORDER NO: 2407116

Company Name: AEI	☑ Env. ☐ Non Env.		Project #: 494888 PO#: 373314
Address: 3880 South Bascom Road #104			Project Name: UC OKA ROAD LLC
City: San Jose	State: CA	Zip Code: 95124	Comments:
Telephone: 650.333.4445	Cell: 650.333.4445		SAMPLER: K. Borg
REPORT TO: Kristina Borg	BILL TO: AEI		EMAIL: kborg@aeiconsultants.com

TURNAROUND TIME: STD,
☐ 2 - 8 Hours ☐ 2 Work Days ☐ 5 Work Days
☐ Noon - Nxt Day ☒ 3 Work Days ☐ 7 Work Days
☐ 1 Work Day ☐ 4 Work Days ☐ 10 Work Days

SAMPLE TYPE:
☐ Drinking Water
☐ Storm Water ☐ Air
☐ Waste Water ☐ Wipe
☐ Ground Water ☐ Other
☒ Soil ☐ Product / Bulk

REPORT FORMAT:
☒ Level II - Std.
☐ DoD/DoE Level III
☐ DoD/DoE Level III
☐ Excel - EDD ☐ EDF
☐ Client Specific EDD

ANALYSIS REQUESTED

LAB ID	CANISTER I.D.	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	Arsenic 6010B (discrete)	OCPs (LOW LEVEL) 8081A (composite)	REMARKS
011	018	SB-4a	7/16/2024 1500	S	1	glass jar	X	X	Composite: SB-4a, SB-4b, SB-4c, SB-4d
012		SB-4b	1510						
013		SB-4c	1520						
014		SB-4d	1530						

	Relinquished By:	Print:	Date:	Time:	Received By:	Print:	Date:	Time:
1	Kristina Borg	Kristina Borg	7/16/2024	1608	[illegible]	L.D.I	7/16/24	7/16/24
2	Relinquished By:	Print:	Date:	Time:	Received By:	Print:	Date:	Time:

Cooler Temperature 4-2 #3 °C Samples Received on ice? Yes ☐ No ☐ Method of Shipment FD

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made.

QA-F-065, Rev 1.0, TLICD-959

Page 2 of 2

APPENDIX H

STORMWATER MANAGEMENT PLAN

SUCCESS BUILT ON SERVICE, QUALITY, & COMMITMENT SINCE 1976

STORMWATER MANAGEMENT PLAN

FOR

14789 OKA ROAD
LOS GATOS, CA

APN: 424-08-035, 424-08-074
Job No.: 6843.00
Date: 08/14/2025



Submitted to:

Town of Los Gatos

Prepared by:

1570 Oakland Road
San Jose, CA 95131

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II. Setting 3

II.A Project Location and Description..... 3
II.B Existing Site Features and Conditions 3
II.C Opportunities and Constraints for Stormwater Control 3

III. Low Impact Development Design Strategies 4

IV. Certifications 5

Stormwater Management Plan

14789 Oka Road

I. Project Data

Project Name/Number	14789 Oka Road
Project Location	14789 Oka Road, Los Gatos CA
Name of Developer	Urban Catalyst
Project Phase No.	N/A
Project Type and Description	Builders Remedy project for the construction of up to 138 Townhome Style Condominium homes in 18 Building.
Project Watershed	Guadalupe Watershed
Total Project Site Area (acres)	6.93 AC
Total Area of Land Disturbed (acres)	6.93 AC
Total New Impervious Surface Area (sq. ft.)	166,578 SF
Total Replaced Impervious Surface Area	1998 SF (offsite)
Total Pre-Project Impervious Surface Area	1998 SF (offsite)
Total Post-Project Impervious Surface Area	168,576
50% Rule[*]	Applies
Project Density	20.35 DU/AC
Applicable Special Project Categories	none
Percent LID and non-LID treatment	100% LID Treatment
HM Compliance	Applies

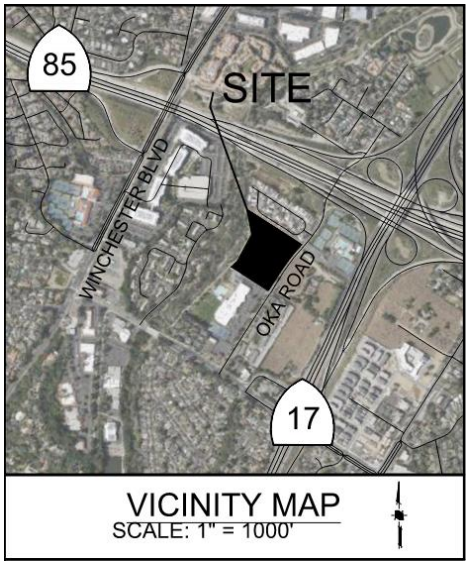
50% rule applies if: Total Replaced Impervious Surface Area > 0.5 x Pre-Project Impervious Surface Area

HM required (unless project meets one of the exemptions in *Guidebook Chapter 1 – Hydromodification Management Requirements – Exemptions*) if: Total New Impervious Surface Area + Total Replaced Impervious Surface Area) ≥ 1

II. Setting

II.A Project Location and Description

The project is located at 14789 Oka Road in Los Gatos CA. The existing 6.78 AC site is currently undeveloped farmland and is located adjacent to Los Gatos Greek, which resides within the Guadalupe Watershed. The proposed land use will be Multi-family Residential. The project proposes to construct up to 138 Townhome style condominium units on 18 buildings, each building on its own lot.



II.B Existing Site Features and Conditions

The existing 6.78 AC site fronts existing Oka Road and currently drains towards the northwest portion of the site to the existing Los Gatos Creek. The existing site is relatively flat but does drop about 2 feet in grade from the public street frontage to the back of the site. An existing public storm drain line runs along the northern portion of the site within an existing public utility easement. The site is currently used as farmland, the soils are Silt Loam (B), historical ground water is approximately 50 feet deep. The site is located within FEMA flood zone X which is categorized as areas of minimal flood hazard which is outside of the 500-year flood and protected by a levee from a 100 year flood.

II.C Opportunities and Constraints for Stormwater Control

Constraints:

The existing topography is relatively flat, which limits the ability to take advantage of the existing drainage pattern and direct runoff to a significantly lower portion of the site. An existing 42” public storm drain line runs along the northern portion of the site within an existing 20’ public storm drain easement. This portion of the site will be unavailable for use of stormwater treatment facilities.

Townhome style projects typically require a 20-26 ft wide paved roadway serving the projects ingress and egress.

The proposed face of building is typically placed within 5 feet of edge of road. This layout limits the ability to propose at grade LID facilities where runoff typically gets conveyed through the paved road, collected along the curb/gutter and directed to bioretention areas via curb opening within the paved road.

Existing Oka Road along the project frontage does not have a public storm drain line to connect to. A public storm drain line will need to be extended along the project frontage to provide a connection point to offsite treatment facilities.

Opportunities:
The proposed stormwater facilities take advantage to the maximum extent possible the ability to include both localized treatment areas combined with a larger treatment facility for areas where LID measures are either infeasible or impractical. Portion of the site was reserved for open space /outdoor amenities for the future residents. This non-buildable portion of the site will integrate stormwater treatment facilities to help alleviate other portions of the site where localized treatment is not achievable. The proposed site will also utilized areas where pervious pavement will serve both as self-treating and self-retaining areas.

III. Low Impact Development Design Strategies

Onsite Stormwater Treatment

The proposed site has been laid out in the way to maximize the number of buildable units but also has created opportunities between the buildings to integrate stormwater treatment measures. Localized treatment facilities such as raised treatment planters were chosen to treat portion of the roof water runoff. Due to the proposed roof design, it is unfeasible to collect all runoff from the roof to less than 4 treatment areas. The building roof drainage was split into 4 quadrants, half of the building roof will drain towards the garage side of the building (adjacent to roadway) while the other half of the building will drain towards the front entry (courtyard / paseo).

Due to the limited space within the courtyard / paseo between buildings, we used the available space to treat half the building via raised planters. The other half of the building that drains towards the garage side will drain to the paved roadway and will be collected via an underground storm drain line which then takes the untreated stormwater runoff to a larger bio-retention area located at the northwest corner of the site. The size of the large bioretention areas was limited to integrated landscape amenities spaces such as outdoor gathering areas and walkways.

Pervious pavement is being proposed along the north and south portions of the site. Private streets that front the garage entrance to the buildings will be standard asphalt paved roadways. In addition to the north and south paved roadways, pervious pavers are also proposed for the walkways within the court yards and the private walkways that provide access to the buildings that front Oka Road.

Offsite Stormwater Treatment

The proposed development is required to provide frontage improvements along Oka Road. The project is conditioned to provide new curb, gutter and sidewalk which will include a continuous 4’ wide landscape strip and a 5’ wide detached sidewalk.

The C.3 Handbook identifies new or replaced impervious areas to be subject to stormwater treatment. Best practices for sizing treatment areas should consider the true tributary drainage area associated with the treatment control measure. Existing Oka Road is a crown street with half the street stormwater runoff draining to either side of the road. Propose treatment areas within Oka Road will utilize the proposed

landscape strip for at grade bioretention areas. Proposed DMA limits will include both disturbed and undisturbed portions of the existing road. Although the stormwater guidelines only require the disturbed portion of the road to be treated, the treatment areas should be sized to consider the tributary drainage shed. This would include any undisturbed areas within Oka Road.

DMA 44 as shown on the stormwater control plan, includes undisturbed area and have been identified with the designator “EQ”. Because we are only required to treat areas disturbed, the overtreated portions of DMA 44 can be used to offset other portions of the site that are subject to treatment. Sheet C6.0 “Stormwater control plan” identified DMA 445 as “untreated”. These areas will be equivalently treated within DMAs 44. The drainage management area summary table quantifies the EQ areas within each DMA and confirms that the total area of “EQ” (overtreatment) is equal or greater than the impervious areas within DMA 45 that were left untreated. The goal of this approach is to minimize the amount of proposed treatment areas within the public street by taking advantage of DMAs that were overtreated.

In addition to the public street frontage improvements, the Town of Los Gatos has requested that the entire street frontage (full street width) be resurfaced via a grind and overlay. Grind and overlay pavement work fall within areas that are exempt from stormwater treatment per table 2-4 of the C.3 Manual. Areas of resurfacing will not count towards the area of disturbance. DMA 46 has been included in the stormwater control plan and represents the portions of the street that will be subject to paving surfacing but will be left as untreated.

IV. Certifications

The selection, sizing, and preliminary design of stormwater treatment and other control measures in this plan meet the requirements of Regional Water Quality Control Board Order R2-2015-0049.



By

Rafael Hernandez, P.E.

Print Name

APPENDIX I

STORMWATER QUALITY TREATMENT MODELING SUMMARY

Balance Hydrologics

800 Bancroft Way • Suite 101 • Berkeley, CA 94710 • (510) 704-1000
931 Mission Street • Santa Cruz, CA 95060 • (831) 457-9900
12020 Donner Pass Road • Unit B1 • Truckee, CA 96161 • (530) 550-9776
www.balancehydro.com • email: office@balancehydro.com

August 15, 2025

Rafael Hernandez, P.E.
HMH Engineers
1570 Oakland Road
San Jose, California 95131

via email to: rhernandez@HMHca.com

RE: **Updated Summary of Preliminary C3 Modeling for the 14789 Oka Road Project, Town of Los Gatos**

Dear Rafael Hernandez:

I would like to begin by thanking you for providing Balance Hydrologics the opportunity to assist with the modeling of water-quality and hydromodification control measures for the proposed residential housing project located at 14789 Oka Road ("Project") in the Town of Los Gatos, California. Coordinating with your office, Balance has proceeded with completing preliminary modeling of the proposed stormwater treatment measures, demonstrating that the project can comply with the required water quality treatment standards while also meeting the pertinent flow-duration frequency requirements. This letter report updates our previous summary reports dated January 13, 2025, and May 1, 2025, and reviews our technical approach and methodology, summarizes the modeling input parameters and assumptions, and discusses the results of the work in light of minor revisions in the stormwater infrastructure design.

Regulatory and Project Setting

Compliance with runoff water quality and hydromodification management criteria was assessed using the Bay Area Hydrology Model (BAHM, version 2023, updated June 2024). Per the latest version of Municipal Regional Stormwater Permit (MRP3) issued by the San Francisco Bay Regional Water Quality Control Board, treatment controls must be provided and must be capable of treating 80 percent of the mean annual runoff from the post-project site. Additionally, changes in runoff flow and duration must be mitigated to avoid hydromodification impacts per the HMP Applicability Map (Appendix E-2 of the C.3 Stormwater Handbook). The pertinent range for flow-duration control is from one-tenth of the 2-year pre-project flow rate to the 10-year pre-project flow rate.

The proposed project will construct high-density residential housing on a property that has previously been used as an orchard. The project work area (defining the drainage area modeled in this study) totals approximately 7.3 acres in the northern part of the Town. The site is located roughly a quarter mile southwest of the intersection of State Routes 17 and 85 and is bounded by Oka Road on the east, Los Gatos Creek on the west, and existing development to the north and south (see **Figure 1**). The existing site is characterized by generally flat terrain with land cover consisting of the former orchard, with remnant trees from those agricultural operations. The site is essentially completely underlain by a single soil type per soil mapping information prepared by the Natural Resources Conservation Service (see **Appendix A**). The single soil type is Elder fine sandy loam, which is classified as a Hydrologic Soil Group A soil, indicative of high infiltration soils with limited runoff potential. This is corroborated by information on the soil series published through the University of California Davis NRCS SoilWeb program, which cites a saturated hydraulic conductivity of 2.83 inches/hour for this soil below the A Horizon.



Figure 1. Site Location and Pre-Project Land Use

BAHM Modeling

Input parameters for the BAHM model were compiled from project plans provided by HMH. The BAHM model used data from the San Jose rain gauge with a factor of 1.448 to account for the difference in mean annual precipitation between the project site and the reference gauge location.

The pre- and post-project drainage areas were analyzed as follows:

- *Pre-project*. The overall site was considered as a single drainage management area (DMA) to characterize runoff in the pre-project condition, all of which currently is routed to Los Gatos Creek. The total drainage area is 7.40 acres, and this includes 0.4 acres of existing impervious area on Oka Road to account for those parts of the roadway that will drain via the project improvements (see discussion below). Therefore, the pre-project impervious cover is quite low at 6%.

- *Post-project*. As with the pre-project case, the modeling includes only one Point of Compliance ("POC") for comparing pre- to post-project flow-duration control since all project runoff will drain to Los Gatos Creek via an existing storm drain trunk line outfall at the northwest corner of the project site. The area draining to the single POC is divided into a total of 46 distinct DMAs (see the stormwater control plan sheet in **Appendix B**). These DMAs can be grouped by the treatment measures for runoff water quality that are part of the stormwater management approach. The groups include the following and are summarized in **Table 1**:

    - *Flow-through planters*. DMAs 1 through 30 consist of roof runoff from the proposed buildings that will be directed to flow-through planters, which are herein identified as Stormwater Treatment Measures (STMs) 1 to 30. The total impervious cover in this grouping is 1.22 acres, draining to a total of 2,390 square feet of planters. For the purposes of the preliminary modeling these separate facilities are aggregated in BAHM as a single planter feature as discussed below.

    - *Bioretention STM 31*. DMA 31 is the largest single area at 2.49 acres of which 2.13 acres are impervious, constituting essentially all of the conventionally paved roadways within the project. This DMA drains to a single bioretention facility (STM 31) located in the northwest corner of the site adjacent to Los Gatos Creek. The bioretention facility will have a floor area of 3,423 square feet and will include an enlarged rock underlayer to promote infiltration of runoff.

    - *Permeable pavers*. The project will make extensive use of roadway and walkway pavers where it is practical to reduce runoff and promote infiltration, and these constitute DMAs 32 to 37 with a total area of 2.92 acres. Since the paver areas will function identically, they are aggregated for purposes of the BAHM modeling as discussed below. The pedestrian and common space areas between buildings (DMAs 34, 35, 36, and 37) will feature permeable paver walkways. Site grading will direct runoff from adjacent landscaping to these paver areas, which will have a crushed rock underlayer to promote infiltration. These areas are also aggregated for modeling purposes as shown in **Table 1**.

Table 1. Summary of Post-Project Land Cover and Treatment Measures

DMA	Impervious (sq feet)	Impervious (acres)	Pervious (sq feet)	STM Area (sq feet)	Pervious less Bio (sq feet)	Pervious less Bio (acres)
1	1,854	0.0426	78	78	0	0.0000
2	1,838	0.0422	78	78	0	0.0000
3	1,855	0.0426	78	78	0	0.0000
4	1,838	0.0422	78	78	0	0.0000
5	1,395	0.0320	78	78	0	0.0000
6	1,813	0.0416	88	88	0	0.0000
7	1,855	0.0426	78	78	0	0.0000
8	1,838	0.0422	78	78	0	0.0000
9	1,855	0.0426	78	78	0	0.0000
10	1,837	0.0422	78	78	0	0.0000
11	1,395	0.0320	78	78	0	0.0000
12	1,814	0.0416	88	88	0	0.0000
13	1,855	0.0426	78	78	0	0.0000
14	1,838	0.0422	78	78	0	0.0000
15	1,855	0.0426	78	78	0	0.0000
16	1,837	0.0422	78	78	0	0.0000
17	1,395	0.0320	78	78	0	0.0000
18	1,814	0.0416	88	88	0	0.0000
19	1,855	0.0426	78	78	0	0.0000
20	1,837	0.0422	78	78	0	0.0000
21	1,855	0.0426	78	78	0	0.0000
22	1,837	0.0422	78	78	0	0.0000
23	1,395	0.0320	78	78	0	0.0000
24	1,814	0.0416	88	88	0	0.0000
25	1,855	0.0426	78	78	0	0.0000
26	1,838	0.0422	78	78	0	0.0000
27	1,855	0.0426	78	78	0	0.0000
28	1,838	0.0422	78	78	0	0.0000
29	1,395	0.0320	78	78	0	0.0000
30	1,814	0.0416	88	88	0	0.0000
Planters	52,969	1.2160	2,390	2,390	0	0.0000
31	92,872	2.1320	15,469	3,423	12,046	0.2765
STM 31	92,872	2.1320	15,469	3,423	12,046	0.2765
32	1,769	0.0406	22,887	15,556	7,331	0.1683
33	13,530	0.3106	23,302	16,059	7,243	0.1663
34	2,507	0.0576	16,088	3,996	12,092	0.2776
35	2,085	0.0479	16,744	4,299	12,445	0.2857
36	2,075	0.0476	18,708	5,204	13,504	0.3100
37	807	0.0185	6,632	628	6,004	0.1378
Pavers	22,773	0.5228	104,361	45,742	58,619	1.3457
38	2,235	0.0513	170	70	100	0.0023
39	2,273	0.0522	320	70	250	0.0057
40	2,275	0.0522	320	70	250	0.0057
41	2,304	0.0529	309	70	239	0.0055
42	2,294	0.0527	311	70	241	0.0055
43	2,294	0.0527	309	70	239	0.0055
44	2,334	0.0536	314	70	244	0.0056
Oka Road Bioretention	16,009	0.3675	2,053	490	1,563	0.0359
45	641	0.0147	49	0	49	0.0011
46	12,725	0.2921	0	0	0	0.0000
No SM	13,366	0.3068	49	0	49	0.0011
Overall Totals	197,989	4.5452	124,322	52,045	72,277	1.6593

- *Oka Road bioretention*. DMAs 38 through 44 (0.41 acres total) represent areas of improvements to Oka Road and additional existing road surface that is not being impacted but currently does not pass through any treatment measures. These DMAs will now drain to bioretention areas along the road corridor (STMs 38 to 44) that have been sized to treat the runoff from both the impacted and non-impacted roadway providing compensatory treatment for the new impervious area that cannot be routed to treatment measures. The seven STMs in this category are aggregated as a single bioretention facility in the BAHM model.

- *Untreated areas*. DMAs 45 and 46 totaling 0.31 acres include roadway improvements along Oka Road adjacent to the project that cannot be readily directed to treatment measures. Treatment for the small impervious area in DMA 45 (641 square feet) is accommodated in sizing of STM 44. DMA 46 is a grind and overlay area of Oka Road that is exempt from treatment requirements but is included in the hydromodification modeling since it flows to the same point of comparison as the rest of the project. These DMAs are aggregated in BAHM and routed to the model point of compliance without passing through a treatment measure.

The proposed flow-through planters and bioretention facilities will follow standard designs (with one exception) as summarized in the C.3 Stormwater Handbook published by the Santa Clara Valley Urban Runoff Pollution Prevention Program (October 2024). Each facility is modeled with a total surface ponding depth of 6 inches, an 18-inch-thick biosoil layer, and a bottom 12-inch-thick rock layer. The exception is the large northwest bioretention facility, which will have a crushed rock layer with a total thickness of 48 inches with the underdrain set 6 inches below the top of the rock layer to promote infiltration of runoff from the lower rock storage course. The permeable paver areas will also be configured to maximize infiltration, and these will have a total thickness of 2.93 feet, that include a stone underlayer 20 inches thick with the underdrain set 12 inches above the bottom of that layer.

As noted previously, the project proposes implementing a comprehensive Low Impact Development approach that includes a large number of distributed stormwater treatment measures. To reduce model run times using the BAHM platform, the STMs were aggregated on the basis of treatment type and drainage configuration. The aggregation process includes using "rolled up" values for impervious and pervious coverage in each DMA and developing simulation parameters for the STM outlets that are representative of the anticipated hydraulic performance of each individual planter, permeable paver, or bioretention unit.[1] For example, the underdrain and overflow controls for aggregated features use equivalent orifices or riser diameters based on the controlling hydraulic behavior (orifice flow control for underdrains and weir flow for risers) that have the same discharge capacity as the sum of the individual facilities that are combined for simulation purposes.

[1] Note that certain treatment measure types (including planters, bioretention units, and permeable pavement) automatically apply rainfall to those areas and therefore the respective areas need to be subtracted from the pervious area in the contributing DMA to avoid double counting of the precipitation.

Figure 2 shows the post-project schematic of the BAHM model.

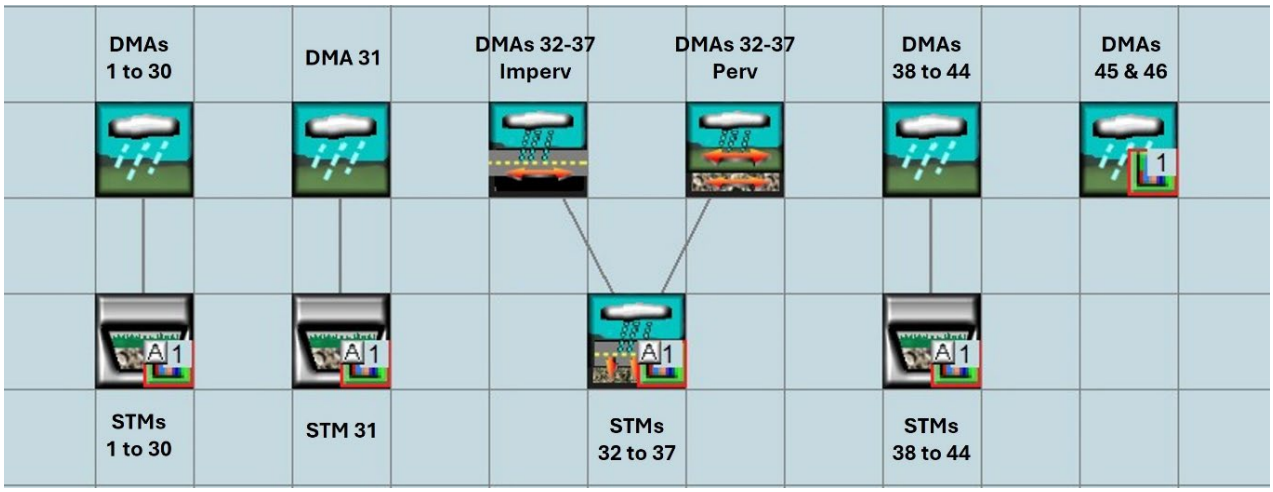


Figure 2. Post-Project BAHM Model Schematic

Model Results

Iterative BAHM model runs were completed to optimize the size and configuration of the stormwater infrastructure components. The full BAHM model output is included in **Appendix C.** The modeling shows, as anticipated, that the runoff rates from the pre-project site are quite low, consistent with the Type A soil conditions. The low range of the hydromodification threshold, one-tenth of the 2-year flow rate, is 0.2 cfs, and the upper bound, the 10-year flow rate, is 5.0 cfs. Orifices will be required on the underdrains of the various measures to achieve flow duration control at the lower end of the hydromodification control range.

The modeling shows that the site design and treatment measures will be able to control flow-duration across the required range, with compliance facilitated by the features that promote runoff infiltration. **Figure 3** illustrates the flow-duration plots for the point of compliance for the pre- and post-project (mitigated) cases.

The BAHM model also generates statistics regarding the runoff treatment performance for the various groups of treatment measures, and these are summarized in **Table 2**. Standard facility design spreadsheets are included for the planters in **Appendix D**, but it is important to note that the methodology used in the spreadsheets does not include consideration of the underdrain orifices. Therefore, it is useful that the modeling quantifies the high treatment rates that can be anticipated from the proposed facilities. In fact, the BAHM output shows that the treatment levels will be considerably above the minimum treatment criteria of 80% of mean annual runoff, and that the permeable paver DMAs are predicted to infiltrate 100% of the runoff they receive.

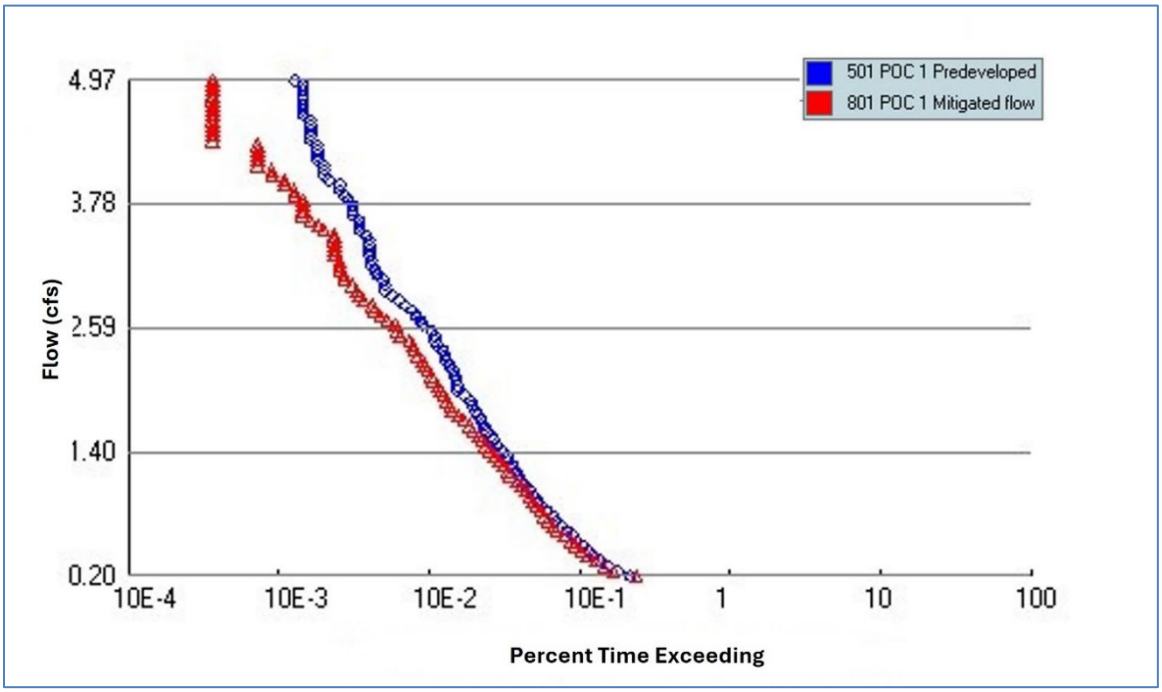


Figure 3. Flow-Duration Compliance Plot for POC 1 from the BAHM Model Output

Table 2. Modeled Runoff Treatment by Treatment Measure Type

Facility	STM Area *(sq ft)*	Treated *(%)*
Planters	2,390	90.5
STM 31 (northwest bio)	3,423	87.4
Permeable Pavers	45,742	100
Oka Road Bioretention	490	86.1

Closing

Thank you again for the opportunity to assist with these stormwater management analyses. The modeling of the proposed stormwater management facilities shows that effective water-quality treatment and flow-duration controls can be provided for the full range of flows from one-tenth of the 2-year event up to the 10-year event.

Please do not hesitate to contact us if you have questions related to the modeling work, results, or conclusions presented herein.

Sincerely,

BALANCE HYDROLOGICS, Inc.



Edward D. Ballman, PE
Principal Engineer

Enclosures:

	Appendix A:	Web Soil Survey Report
	Appendix B:	Post-Project Stormwater Control Plan
	Appendix C:	Bay Area Hydrology Model Output
	Appendix D:	Sizing Spreadsheets for STM 1 to 30 (Planters)
	Appendix E:	BAHM (*Model provided in compressed zip file format*)

APPENDICES

APPENDIX A

Web Soil Survey Report

Hydrologic Soil Group—Santa Clara Area, California, Western Part
(14789 Oka Road, Los Gatos)



Map Scale: 1:1,770 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 25 50 100 150

Feet: 0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

Soil Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Santa Clara Area, California, Western Part
Survey Area Data: Version 13, Sep 8, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 1, 2023—Sep 1, 2023

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
168	Elder fine sandy loam, protected, 0 to 2 percent slopes	A	6.8	94.3%
169	Urbanland-Elder complex, 0 to 2 percent slopes, protected		0.4	5.7%
Totals for Area of Interest			**7.3**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

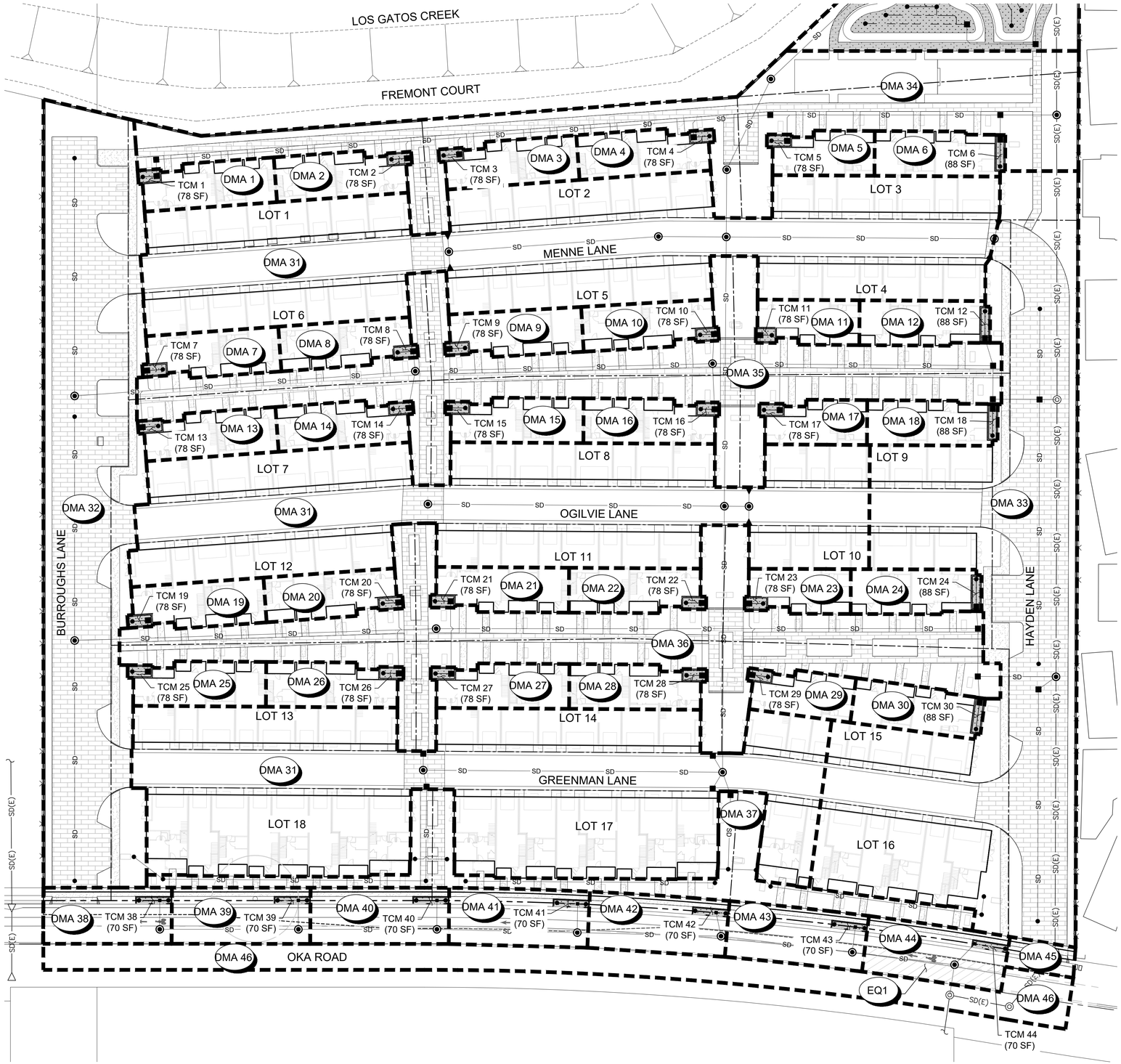
Component Percent Cutoff: None Specified

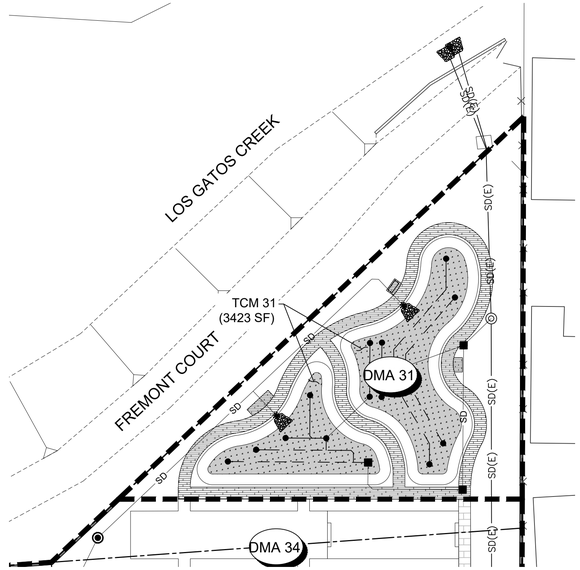
Tie-break Rule: Higher

APPENDIX B

Post-Project Stormwater Control Plan

SEE RIGHT FOR CONTINUATION





SEE LEFT FOR CONTINUATION

LEGEND

- PROJECT BOUNDARY
- STORM DRAIN PIPE
- STORM DRAIN PIPE (EXISTING)
- PERFORATED UNDERDRAIN PIPE
- STORM DRAIN MANHOLE
- STORM DRAIN MANHOLE (EXISTING)
- CURB INLET
- CURB INLET (EXISTING)
- CATCH BASIN
- CATCH BASIN (EXISTING)
- BUBBLER BOX
- DIRECTION OF SURFACE DRAINAGE
- DRAINAGE MANAGEMENT AREA (SEE SIZING CALCULATIONS, SHEET C6.3) — DMA#
- BIORETENTION AREA
- ALTERNATIVE COMPLIANCE/ EQUIVALENT AREA
- PERVIOUS PAVERS (SELF-TREATING)

PROJECT SITE INFORMATION:

1. SOILS TYPE: SILT LOAM (B)
2. GROUND WATER DEPTH: 50 FEET
3. NAME OF RECEIVING BODY: LOS GATOS CREEK
4. FLOOD ZONE: ZONE X
5. FLOOD ELEVATION (IF APPLICABLE): N/A

0 15 30 60

1 INCH = 30 FEET

HMH
Land Use Entitlements
Land Planning
Landscape Architecture
Civil Engineering
Utility Design
Land Surveying
Stormwater Compliance

1570 Oakland Road (408) 487-2200
San Jose, CA 95131 HMHca.com

14789 OKA ROAD
ARCHITECTURE & SITE REVIEW AND TENTATIVE MAP
S-24-052, U-24-016, M-24-017

NO	DATE	DESCRIPTION
3	5/2/25	PER CITY COMMENTS
2	1/15/25	PER CITY COMMENTS
1	10/25/24	PER CITY COMMENTS

PROJECT NO:	6843.00
CAD DWG FILE:	684300SW.DWG
DESIGNED BY:	RH
DRAWN BY:	AV
CHECKED BY:	RH
DATE:	SEPTEMBER 13, 2024
SCALE:	1" = 30'

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STORMWATER CONTROL PLAN

C6.0

S:\PROJECTS\6843\300\PLP\PERMIT\684300SW.DWG
PLOTTED: 8/6/2025 2:06 PM

APPENDIX C

Bay Area Hydrology Model Output

BAHM2023

PROJECT REPORT

General Model Information

BAHM2023 Project Name: 224166 Oka Road Aug 2025

Site Name:	14789 Oka Road
Site Address:	
City:	Los Gatos
Report Date:	8/15/2025
Gage:	San Jose
Data Start:	1959/10/01
Data End:	2022/09/30
Timestep:	Hourly
Precip Scale:	1.448
Version Date:	2024/06/19

POC Thresholds

Low Flow Threshold for POC1:	10 Percent of the 2 Year
High Flow Threshold for POC1:	10 Year

Landuse Basin Data

Pre-Project Land Use

Oka Pre

Bypass:	No
GroundWater:	No

Pervious Land Use	acre
A,Grass,Flat(0-5%)	6.9647
Pervious Total	6.9647

Impervious Land Use	acre
Roads,Flat(0-5%)	0.4345
Impervious Total	0.4345
Basin Total	7.3992

Element Flow Componants:

Surface	Interflow	Groundwater
Componant Flows To:		
POC 1	POC 1	

Mitigated Land Use

DMAs 45 & 46

Bypass:	Yes
GroundWater:	No

Pervious Land Use	acre
A,Grass,Flat(0-5%)	0.0011
Pervious Total	0.0011

Impervious Land Use	acre
Roads,Flat(0-5%)	0.3068
Impervious Total	0.3068
Basin Total	0.3079

Element Flow Componants:

Surface	Interflow	Groundwater

Componant Flows To:

POC 1	POC 1

DMAs 1 to 30

Bypass:	No
GroundWater:	No
Pervious Land Use	acre
Pervious Total	0
Impervious Land Use	acre
Roof Area	1.216
Impervious Total	1.216
Basin Total	1.216

Element Flow Componants:

Surface	Interflow	Groundwater

Componant Flows To:

Surface	Surface	
STMs 1 to 30	STMs 1 to 30	

DMAs 38 to 44

Bypass:	No
GroundWater:	No

Pervious Land Use	acre
A,Grass,Flat(0-5%)	0.0359
Pervious Total	0.0359

Impervious Land Use	acre
Roads,Flat(0-5%)	0.3675
Impervious Total	0.3675
Basin Total	0.4034

Element Flow Componants:

Surface	Interflow	Groundwater
Componant Flows To:		
Surface TMs 38 to 44	Surface TMs 38 to 44	

DMA 31

Bypass:	No
GroundWater:	No

Pervious Land Use	acre
A,Grass,Flat(0-5%)	0.2765
Pervious Total	0.2765

Impervious Land Use	acre
Roads,Flat(0-5%)	2.132
Impervious Total	2.132
Basin Total	2.4085

Element Flow Componants:

Surface	Interflow	Groundwater

Componant Flows To:

Surface	Interflow	Groundwater
Surface STM 31	Surface STM 31	

DMA 32 to 37 Perv

Bypass:	No
GroundWater:	No
Pervious Land Use	acre
A,Grass,Flat(0-5%)	1.3457

Element Flow Componants:

Surface	Interflow	Groundwater

Componant Flows To:

STMs 32 to 37	STMs 32 to 37

DMA 32 to 37 Imperv

Bypass:	No
Impervious Land Use	acre
Roads,Flat(0-5%)	0.5228

Element Flow Componant:
Surface
Componant Flows To:
STMs 32 to 37

Mitigated Routing

STMs 1 to 30

Bottom Length:	398.30 ft.
Bottom Width:	6.00 ft.
Material thickness of first layer:	1.5
Material type for first layer:	BAHM 5
Material thickness of second layer:	1
Material type for second layer:	GRAVEL
Material thickness of third layer:	0
Material type for third layer:	GRAVEL
Underdrain used	
Underdrain Diameter (feet):	0.333333333333333
Orifice Diameter (in.):	2.05
Offset (in.):	0
Flow Through Underdrain (ac-ft.):	110.485
Total Outflow (ac-ft.):	122.118
Percent Through Underdrain:	90.47
Discharge Structure	
Riser Height:	0.5 ft.
Riser Diameter:	180 in.
Element Outlets:	
Outlet 1	Outlet 2
Outlet Flows To:	

Bioretention Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	0.0549	0.0000	0.0000	0.0000
0.0385	0.0549	0.0008	0.0000	0.0000
0.0769	0.0549	0.0016	0.0000	0.0000
0.1154	0.0549	0.0024	0.0000	0.0000
0.1538	0.0549	0.0032	0.0000	0.0000
0.1923	0.0549	0.0040	0.0000	0.0000
0.2308	0.0549	0.0048	0.0000	0.0000
0.2692	0.0549	0.0056	0.0000	0.0000
0.3077	0.0549	0.0064	0.0000	0.0000
0.3462	0.0549	0.0072	0.0000	0.0000
0.3846	0.0549	0.0080	0.0000	0.0000
0.4231	0.0549	0.0088	0.0124	0.0000
0.4615	0.0549	0.0096	0.0146	0.0000
0.5000	0.0549	0.0104	0.0171	0.0000
0.5385	0.0549	0.0112	0.0199	0.0000
0.5769	0.0549	0.0120	0.0209	0.0000
0.6154	0.0549	0.0128	0.0265	0.0000
0.6538	0.0549	0.0136	0.0286	0.0000
0.6923	0.0549	0.0144	0.0307	0.0000
0.7308	0.0549	0.0152	0.0310	0.0000
0.7692	0.0549	0.0160	0.0350	0.0000
0.8077	0.0549	0.0168	0.0385	0.0000
0.8462	0.0549	0.0176	0.0417	0.0000
0.8846	0.0549	0.0184	0.0447	0.0000
0.9231	0.0549	0.0192	0.0475	0.0000
0.9615	0.0549	0.0200	0.0501	0.0000
1.0000	0.0549	0.0208	0.0526	0.0000
1.0385	0.0549	0.0216	0.0550	0.0000

1.0769	0.0549	0.0225	0.0572	0.0000
1.1154	0.0549	0.0233	0.0594	0.0000
1.1538	0.0549	0.0241	0.0615	0.0000
1.1923	0.0549	0.0249	0.0636	0.0000
1.2308	0.0549	0.0257	0.0655	0.0000
1.2692	0.0549	0.0265	0.0674	0.0000
1.3077	0.0549	0.0273	0.0693	0.0000
1.3462	0.0549	0.0281	0.0711	0.0000
1.3846	0.0549	0.0289	0.0729	0.0000
1.4231	0.0549	0.0297	0.0746	0.0000
1.4615	0.0549	0.0305	0.0763	0.0000
1.5000	0.0549	0.0313	0.0779	0.0000
1.5385	0.0549	0.0322	0.0795	0.0000
1.5769	0.0549	0.0331	0.0811	0.0000
1.6154	0.0549	0.0340	0.0826	0.0000
1.6538	0.0549	0.0348	0.0842	0.0000
1.6923	0.0549	0.0357	0.0857	0.0000
1.7308	0.0549	0.0366	0.0871	0.0000
1.7692	0.0549	0.0375	0.0886	0.0000
1.8077	0.0549	0.0384	0.0900	0.0000
1.8462	0.0549	0.0392	0.0914	0.0000
1.8846	0.0549	0.0401	0.0928	0.0000
1.9231	0.0549	0.0410	0.0941	0.0000
1.9615	0.0549	0.0419	0.0955	0.0000
2.0000	0.0549	0.0427	0.0968	0.0000
2.0385	0.0549	0.0436	0.0981	0.0000
2.0769	0.0549	0.0445	0.0994	0.0000
2.1154	0.0549	0.0454	0.1007	0.0000
2.1538	0.0549	0.0462	0.1019	0.0000
2.1923	0.0549	0.0471	0.1032	0.0000
2.2308	0.0549	0.0480	0.1044	0.0000
2.2692	0.0549	0.0489	0.1056	0.0000
2.3077	0.0549	0.0497	0.1068	0.0000
2.3462	0.0549	0.0506	0.1080	0.0000
2.3846	0.0549	0.0515	0.1092	0.0000
2.4231	0.0549	0.0524	0.1104	0.0000
2.4615	0.0549	0.0532	0.1116	0.0000
2.5000	0.0549	0.0541	0.1151	0.0000
2.5000	0.0549	0.0541	0.1151	0.0000

Bioretention Surface Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	To Amended(cfs)	Infilt(cfs)
2.5000	0.0549	0.0541	0.0000	0.2766	0.0000
2.5385	0.0549	0.0562	0.0000	0.2766	0.0000
2.5769	0.0549	0.0583	0.0000	0.2908	0.0000
2.6154	0.0549	0.0604	0.0000	0.2979	0.0000
2.6538	0.0549	0.0626	0.0000	0.3050	0.0000
2.6923	0.0549	0.0647	0.0000	0.3121	0.0000
2.7308	0.0549	0.0668	0.0000	0.3192	0.0000
2.7692	0.0549	0.0689	0.0000	0.3262	0.0000
2.8077	0.0549	0.0710	0.0000	0.3333	0.0000
2.8462	0.0549	0.0731	0.0000	0.3404	0.0000
2.8846	0.0549	0.0752	0.0000	0.3475	0.0000
2.9231	0.0549	0.0773	0.0000	0.3546	0.0000
2.9615	0.0549	0.0794	0.0000	0.3617	0.0000
3.0000	0.0549	0.0815	0.0000	0.3688	0.0000
3.0385	0.0549	0.0837	1.2016	0.3759	0.0000
3.0769	0.0549	0.0858	3.3981	0.3830	0.0000

3.1154	0.0549	0.0879	6.2419	0.3901	0.0000
3.1538	0.0549	0.0900	9.6086	0.3972	0.0000
3.1923	0.0549	0.0921	13.427	0.4043	0.0000
3.2308	0.0549	0.0942	17.648	0.4114	0.0000
3.2692	0.0549	0.0963	22.236	0.4184	0.0000
3.3077	0.0549	0.0984	27.164	0.4255	0.0000
3.3462	0.0549	0.1005	32.410	0.4326	0.0000
3.3846	0.0549	0.1026	37.955	0.4397	0.0000
3.4231	0.0549	0.1048	43.784	0.4468	0.0000
3.4615	0.0549	0.1069	49.884	0.4539	0.0000
3.5000	0.0549	0.1090	56.242	0.4610	0.0000

STMs 38 to 44

Bottom Length:	98.00 ft.
Bottom Width:	5.00 ft.
Material thickness of first layer:	1.5
Material type for first layer:	BAHM 5
Material thickness of second layer:	1
Material type for second layer:	GRAVEL
Material thickness of third layer:	0
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	2.83
Infiltration reduction factor:	0.33
Total Volume Infiltrated (ac-ft.):	13.475
Total Volume Through Riser (ac-ft.):	5.218
Total Volume Through Facility (ac-ft.):	37.501
Percent Infiltrated:	35.93
Total Precip Applied to Facility:	1.175
Total Evap From Facility:	0.68
Underdrain used	
Underdrain Diameter (feet):	0.333333333333333
Orifice Diameter (in.):	1
Offset (in.):	0
Flow Through Underdrain (ac-ft.):	18.808
Total Outflow (ac-ft.):	37.501
Percent Through Underdrain:	50.15
Discharge Structure	
Riser Height:	0.5 ft.
Riser Diameter:	42 in.
Element Outlets:	
Outlet 1	Outlet 2
Outlet Flows To:	

Bioretention Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	0.0112	0.0000	0.0000	0.0000
0.0385	0.0112	0.0002	0.0000	0.0000
0.0769	0.0112	0.0003	0.0000	0.0000
0.1154	0.0112	0.0005	0.0000	0.0000
0.1538	0.0112	0.0007	0.0000	0.0000
0.1923	0.0112	0.0008	0.0000	0.0000
0.2308	0.0112	0.0010	0.0000	0.0000
0.2692	0.0112	0.0012	0.0000	0.0000
0.3077	0.0112	0.0013	0.0000	0.0000
0.3462	0.0112	0.0015	0.0000	0.0000
0.3846	0.0112	0.0016	0.0000	0.0000
0.4231	0.0112	0.0018	0.0008	0.0017
0.4615	0.0112	0.0020	0.0010	0.0020
0.5000	0.0112	0.0021	0.0011	0.0024
0.5385	0.0112	0.0023	0.0013	0.0028
0.5769	0.0112	0.0025	0.0015	0.0032
0.6154	0.0112	0.0026	0.0017	0.0037
0.6538	0.0112	0.0028	0.0023	0.0039
0.6923	0.0112	0.0030	0.0025	0.0042
0.7308	0.0112	0.0031	0.0032	0.0045
0.7692	0.0112	0.0033	0.0036	0.0046

0.8077	0.0112	0.0035	0.0038	0.0049
0.8462	0.0112	0.0036	0.0046	0.0053
0.8846	0.0112	0.0038	0.0051	0.0054
0.9231	0.0112	0.0039	0.0055	0.0055
0.9615	0.0112	0.0041	0.0060	0.0057
1.0000	0.0112	0.0043	0.0066	0.0058
1.0385	0.0112	0.0044	0.0071	0.0060
1.0769	0.0112	0.0046	0.0076	0.0062
1.1154	0.0112	0.0048	0.0082	0.0064
1.1538	0.0112	0.0049	0.0088	0.0066
1.1923	0.0112	0.0051	0.0094	0.0068
1.2308	0.0112	0.0053	0.0100	0.0070
1.2692	0.0112	0.0054	0.0106	0.0072
1.3077	0.0112	0.0056	0.0113	0.0074
1.3462	0.0112	0.0058	0.0119	0.0077
1.3846	0.0112	0.0059	0.0126	0.0079
1.4231	0.0112	0.0061	0.0133	0.0082
1.4615	0.0112	0.0062	0.0141	0.0084
1.5000	0.0112	0.0064	0.0148	0.0087
1.5385	0.0112	0.0066	0.0156	0.0089
1.5769	0.0112	0.0068	0.0164	0.0092
1.6154	0.0112	0.0070	0.0173	0.0095
1.6538	0.0112	0.0071	0.0181	0.0098
1.6923	0.0112	0.0073	0.0190	0.0100
1.7308	0.0112	0.0075	0.0199	0.0103
1.7692	0.0112	0.0077	0.0207	0.0106
1.8077	0.0112	0.0079	0.0211	0.0106
1.8462	0.0112	0.0080	0.0214	0.0106
1.8846	0.0112	0.0082	0.0217	0.0106
1.9231	0.0112	0.0084	0.0221	0.0106
1.9615	0.0112	0.0086	0.0224	0.0106
2.0000	0.0112	0.0088	0.0227	0.0106
2.0385	0.0112	0.0089	0.0230	0.0106
2.0769	0.0112	0.0091	0.0233	0.0106
2.1154	0.0112	0.0093	0.0236	0.0106
2.1538	0.0112	0.0095	0.0240	0.0106
2.1923	0.0112	0.0097	0.0242	0.0106
2.2308	0.0112	0.0098	0.0245	0.0106
2.2692	0.0112	0.0100	0.0248	0.0106
2.3077	0.0112	0.0102	0.0251	0.0106
2.3462	0.0112	0.0104	0.0254	0.0106
2.3846	0.0112	0.0106	0.0257	0.0106
2.4231	0.0112	0.0107	0.0260	0.0106
2.4615	0.0112	0.0109	0.0266	0.0106
2.5000	0.0112	0.0111	0.0274	0.0106
2.5000	0.0112	0.0111	0.0274	0.0106

Bioretention Surface Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	To Amended(cfs)	Infilt(cfs)
2.5000	0.0112	0.0111	0.0000	0.0567	0.0000
2.5385	0.0112	0.0115	0.0000	0.0567	0.0000
2.5769	0.0112	0.0120	0.0000	0.0596	0.0000
2.6154	0.0112	0.0124	0.0000	0.0611	0.0000
2.6538	0.0112	0.0128	0.0000	0.0625	0.0000
2.6923	0.0112	0.0133	0.0000	0.0640	0.0000
2.7308	0.0112	0.0137	0.0000	0.0654	0.0000
2.7692	0.0112	0.0141	0.0000	0.0669	0.0000
2.8077	0.0112	0.0146	0.0000	0.0683	0.0000

2.8462	0.0112	0.0150	0.0000	0.0698	0.0000
2.8846	0.0112	0.0154	0.0000	0.0713	0.0000
2.9231	0.0112	0.0159	0.0000	0.0727	0.0000
2.9615	0.0112	0.0163	0.0000	0.0742	0.0000
3.0000	0.0112	0.0167	0.0000	0.0756	0.0000
3.0385	0.0112	0.0172	0.2802	0.0771	0.0000
3.0769	0.0112	0.0176	0.7922	0.0785	0.0000
3.1154	0.0112	0.0180	1.4548	0.0800	0.0000
3.1538	0.0112	0.0185	2.2388	0.0814	0.0000
3.1923	0.0112	0.0189	3.1272	0.0829	0.0000
3.2308	0.0112	0.0193	4.1079	0.0843	0.0000
3.2692	0.0112	0.0197	5.1719	0.0858	0.0000
3.3077	0.0112	0.0202	6.3112	0.0873	0.0000
3.3462	0.0112	0.0206	7.5192	0.0887	0.0000
3.3846	0.0112	0.0210	8.7895	0.0902	0.0000
3.4231	0.0112	0.0215	10.116	0.0916	0.0000
3.4615	0.0112	0.0219	11.493	0.0931	0.0000
3.5000	0.0112	0.0223	12.915	0.0945	0.0000

STM 31

Bottom Length:	100.00 ft.
Bottom Width:	34.23 ft.
Material thickness of first layer:	1.5
Material type for first layer:	BAHM 5
Material thickness of second layer:	4
Material type for second layer:	GRAVEL
Material thickness of third layer:	0
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	2.83
Infiltration reduction factor:	0.33
Total Volume Infiltrated (ac-ft.):	187.614
Total Volume Through Riser (ac-ft.):	27.691
Total Volume Through Facility (ac-ft.):	219.74
Percent Infiltrated:	85.38
Total Precip Applied to Facility:	8.298
Total Evap From Facility:	4.76
Underdrain used	
Underdrain Diameter (feet):	0.333333333333333
Orifice Diameter (in.):	1
Offset (in.):	42
Flow Through Underdrain (ac-ft.):	4.435
Total Outflow (ac-ft.):	219.74
Percent Through Underdrain:	2.02
Discharge Structure	
Riser Height:	0.5 ft.
Riser Diameter:	38.2 in.
Element Outlets:	
Outlet 1	Outlet 2
Outlet Flows To:	

Bioretention Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	0.0786	0.0000	0.0000	0.0000
0.0736	0.0786	0.0022	0.0000	0.0000
0.1473	0.0786	0.0044	0.0000	0.0000
0.2209	0.0786	0.0066	0.0000	0.0000
0.2945	0.0786	0.0088	0.0000	0.0000
0.3681	0.0786	0.0110	0.0000	0.0000
0.4418	0.0786	0.0132	0.0000	0.0031
0.5154	0.0786	0.0154	0.0000	0.0195
0.5890	0.0786	0.0176	0.0000	0.0227
0.6626	0.0786	0.0198	0.0000	0.0263
0.7363	0.0786	0.0220	0.0000	0.0305
0.8099	0.0786	0.0242	0.0000	0.0351
0.8835	0.0786	0.0264	0.0000	0.0402
0.9571	0.0786	0.0286	0.0000	0.0459
1.0308	0.0786	0.0308	0.0000	0.0521
1.1044	0.0786	0.0330	0.0000	0.0589
1.1780	0.0786	0.0352	0.0000	0.0662
1.2516	0.0786	0.0374	0.0000	0.0740
1.3253	0.0786	0.0396	0.0000	0.0740
1.3989	0.0786	0.0418	0.0000	0.0740
1.4725	0.0786	0.0440	0.0000	0.0740

1.5462	0.0786	0.0464	0.0000	0.0740
1.6198	0.0786	0.0488	0.0000	0.0740
1.6934	0.0786	0.0512	0.0000	0.0740
1.7670	0.0786	0.0536	0.0000	0.0740
1.8407	0.0786	0.0560	0.0000	0.0740
1.9143	0.0786	0.0584	0.0000	0.0740
1.9879	0.0786	0.0608	0.0000	0.0740
2.0615	0.0786	0.0632	0.0000	0.0740
2.1352	0.0786	0.0656	0.0000	0.0740
2.2088	0.0786	0.0680	0.0000	0.0740
2.2824	0.0786	0.0704	0.0000	0.0740
2.3560	0.0786	0.0728	0.0000	0.0740
2.4297	0.0786	0.0752	0.0000	0.0740
2.5033	0.0786	0.0776	0.0000	0.0740
2.5769	0.0786	0.0800	0.0000	0.0740
2.6505	0.0786	0.0824	0.0000	0.0740
2.7242	0.0786	0.0848	0.0000	0.0740
2.7978	0.0786	0.0872	0.0000	0.0740
2.8714	0.0786	0.0896	0.0000	0.0740
2.9451	0.0786	0.0920	0.0000	0.0740
3.0187	0.0786	0.0944	0.0000	0.0740
3.0923	0.0786	0.0968	0.0000	0.0740
3.1659	0.0786	0.0992	0.0000	0.0740
3.2396	0.0786	0.1016	0.0000	0.0740
3.3132	0.0786	0.1040	0.0000	0.0740
3.3868	0.0786	0.1064	0.0000	0.0740
3.4604	0.0786	0.1088	0.0000	0.0740
3.5341	0.0786	0.1112	0.0000	0.0740
3.6077	0.0786	0.1136	0.0000	0.0740
3.6813	0.0786	0.1160	0.0000	0.0740
3.7549	0.0786	0.1184	0.0000	0.0740
3.8286	0.0786	0.1208	0.0000	0.0740
3.9022	0.0786	0.1232	0.0000	0.0740
3.9758	0.0786	0.1256	0.0000	0.0740
4.0495	0.0786	0.1280	0.0000	0.0740
4.1231	0.0786	0.1304	0.0000	0.0740
4.1967	0.0786	0.1328	0.0000	0.0740
4.2703	0.0786	0.1352	0.0000	0.0740
4.3440	0.0786	0.1376	0.0000	0.0740
4.4176	0.0786	0.1400	0.0000	0.0740
4.4912	0.0786	0.1424	0.0000	0.0740
4.5648	0.0786	0.1448	0.0000	0.0740
4.6385	0.0786	0.1472	0.0000	0.0740
4.7121	0.0786	0.1496	0.0000	0.0740
4.7857	0.0786	0.1520	0.0000	0.0740
4.8593	0.0786	0.1544	0.0000	0.0740
4.9330	0.0786	0.1568	0.0000	0.0740
5.0066	0.0786	0.1592	0.0035	0.0740
5.0802	0.0786	0.1616	0.0082	0.0740
5.1538	0.0786	0.1640	0.0110	0.0740
5.2275	0.0786	0.1664	0.0133	0.0740
5.3011	0.0786	0.1688	0.0152	0.0740
5.3747	0.0786	0.1712	0.0169	0.0740
5.4484	0.0786	0.1736	0.0185	0.0740
5.5000	0.0786	0.1753	0.0197	0.0740

Bioretention Surface Hydraulic Table

Stage(feet)Area(ac.)Volume(ac-ft.)Discharge(cfs)To Amended(cfs)Infilt(cfs)

5.5000	0.0786	0.1753	0.0000	0.3962	0.0000
5.5736	0.0786	0.1811	0.0000	0.3962	0.0000
5.6473	0.0786	0.1869	0.0000	0.4351	0.0000
5.7209	0.0786	0.1927	0.0000	0.4545	0.0000
5.7945	0.0786	0.1985	0.0000	0.4740	0.0000
5.8681	0.0786	0.2042	0.0000	0.4934	0.0000
5.9418	0.0786	0.2100	0.0000	0.5129	0.0000
6.0154	0.0786	0.2158	0.0645	0.5323	0.0000
6.0890	0.0786	0.2216	0.8967	0.5518	0.0000
6.1626	0.0786	0.2274	2.2125	0.5712	0.0000
6.2363	0.0786	0.2332	3.8679	0.5906	0.0000
6.3099	0.0786	0.2390	5.7943	0.6101	0.0000
6.3835	0.0786	0.2447	7.9417	0.6295	0.0000
6.4571	0.0786	0.2505	10.266	0.6490	0.0000
6.5308	0.0786	0.2563	12.726	0.6684	0.0000
6.6044	0.0786	0.2621	15.276	0.6879	0.0000
6.6780	0.0786	0.2679	17.873	0.7073	0.0000
6.7000	0.0786	0.2696	20.472	0.7131	0.0000

STMs 32 to 37

Pavement Area:1.0501 acre.Pavement Length:1829.70 ft.
Pavement Width: 25.00 ft.
Pavement slope 1:0 To 1
Pavement thickness: 1.26
Pour Space of Pavement: 0.3
Material thickness of second layer: 1.67
Pour Space of material for second layer: 0.4
Material thickness of third layer: 0
Pour Space of material for third layer: 0
Infiltration On
Infiltration rate: 2.83
Infiltration reduction factor: 0.33
Total Volume Infiltrated (ac-ft.): 177.483
Total Volume Through Riser (ac-ft.): 0
Total Volume Through Facility (ac-ft.): 177.483
Percent Infiltrated: 100
Total Precip Applied to Facility: 0
Total Evap From Facility: 4.307
Discharge Structure
Riser Height: 3.43 ft.
Riser Diameter: 300 in.
Notch Type: Rectangular
Notch Width: 5.000 ft.
Notch Height: 0.250 ft.
Orifice 1 Diameter: 4.000 in. Elevation:1 ft.
Element Outlets:
Outlet 1 Outlet 2
Outlet Flows To:

Permeable Pavement Hydraulic Table

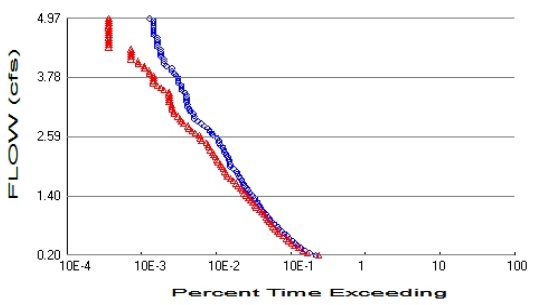
Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	1.050	0.000	0.000	0.000
0.0381	1.050	0.016	0.000	0.988
0.0762	1.050	0.032	0.000	0.988
0.1143	1.050	0.048	0.000	0.988
0.1524	1.050	0.064	0.000	0.988
0.1906	1.050	0.080	0.000	0.988
0.2287	1.050	0.096	0.000	0.988
0.2668	1.050	0.112	0.000	0.988
0.3049	1.050	0.128	0.000	0.988
0.3430	1.050	0.144	0.000	0.988
0.3811	1.050	0.160	0.000	0.988
0.4192	1.050	0.176	0.000	0.988
0.4573	1.050	0.192	0.000	0.988
0.4954	1.050	0.208	0.000	0.988
0.5336	1.050	0.224	0.000	0.988
0.5717	1.050	0.240	0.000	0.988
0.6098	1.050	0.256	0.000	0.988
0.6479	1.050	0.272	0.000	0.988
0.6860	1.050	0.288	0.000	0.988
0.7241	1.050	0.304	0.000	0.988
0.7622	1.050	0.320	0.000	0.988
0.8003	1.050	0.336	0.000	0.988
0.8384	1.050	0.352	0.000	0.988

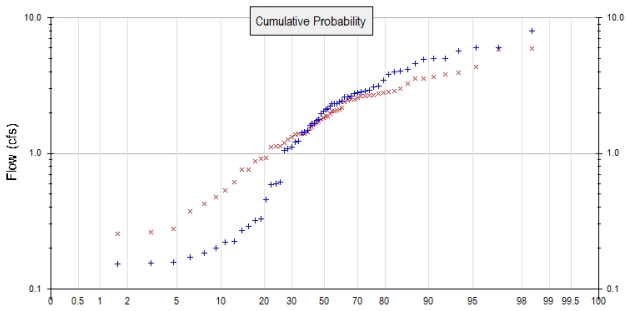
0.8766	1.050	0.368	0.000	0.988
0.9147	1.050	0.384	0.000	0.988
0.9528	1.050	0.400	0.000	0.988
0.9909	1.050	0.416	0.000	0.988
1.0290	1.050	0.432	0.073	0.988
1.0671	1.050	0.448	0.112	0.988
1.1052	1.050	0.464	0.140	0.988
1.1433	1.050	0.480	0.164	0.988
1.1814	1.050	0.496	0.184	0.988
1.2196	1.050	0.512	0.203	0.988
1.2577	1.050	0.528	0.220	0.988
1.2958	1.050	0.544	0.236	0.988
1.3339	1.050	0.560	0.250	0.988
1.3720	1.050	0.576	0.264	0.988
1.4101	1.050	0.592	0.278	0.988
1.4482	1.050	0.608	0.290	0.988
1.4863	1.050	0.624	0.302	0.988
1.5244	1.050	0.640	0.314	0.988
1.5626	1.050	0.656	0.325	0.988
1.6007	1.050	0.672	0.336	0.988
1.6388	1.050	0.688	0.347	0.988
1.6769	1.050	0.700	0.357	0.988
1.7150	1.050	0.712	0.367	0.988
1.7531	1.050	0.724	0.376	0.988
1.7912	1.050	0.736	0.386	0.988
1.8293	1.050	0.748	0.395	0.988
1.8674	1.050	0.760	0.404	0.988
1.9056	1.050	0.772	0.413	0.988
1.9437	1.050	0.784	0.421	0.988
1.9818	1.050	0.796	0.430	0.988
2.0199	1.050	0.808	0.438	0.988
2.0580	1.050	0.820	0.446	0.988
2.0961	1.050	0.832	0.454	0.988
2.1342	1.050	0.844	0.462	0.988
2.1723	1.050	0.856	0.470	0.988
2.2104	1.050	0.868	0.477	0.988
2.2486	1.050	0.880	0.485	0.988
2.2867	1.050	0.892	0.492	0.988
2.3248	1.050	0.904	0.499	0.988
2.3629	1.050	0.916	0.506	0.988
2.4010	1.050	0.928	0.513	0.988
2.4391	1.050	0.940	0.520	0.988
2.4772	1.050	0.952	0.527	0.988
2.5153	1.050	0.964	0.534	0.988
2.5534	1.050	0.976	0.541	0.988
2.5916	1.050	0.988	0.547	0.988
2.6297	1.050	1.000	0.554	0.988
2.6678	1.050	1.012	0.560	0.988
2.7059	1.050	1.024	0.567	0.988
2.7440	1.050	1.036	0.573	0.988
2.7821	1.050	1.048	0.579	0.988
2.8202	1.050	1.060	0.585	0.988
2.8583	1.050	1.072	0.591	0.988
2.8964	1.050	1.084	0.597	0.988
2.9346	1.050	1.124	0.603	0.988
2.9727	1.050	1.164	0.609	0.988
3.0108	1.050	1.204	0.615	0.988
3.0489	1.050	1.244	0.621	0.988

3.0870	1.050	1.284	0.627	0.988
3.1251	1.050	1.324	0.633	0.988
3.1632	1.050	1.364	0.638	0.988
3.2013	1.050	1.404	0.696	0.988
3.2394	1.050	1.444	0.891	0.988
3.2776	1.050	1.484	1.162	0.988
3.3157	1.050	1.524	1.492	0.988
3.3538	1.050	1.564	1.872	0.988
3.3919	1.050	1.604	2.295	0.988

Analysis Results

POC 1





\+ Pre-Project x Mitigated

Pre-Project Landuse Totals for POC #1
Total Pervious Area: 6.9647
Total Impervious Area: 0.4345

Mitigated Landuse Totals for POC #1
Total Pervious Area: 1.6592
Total Impervious Area: 5.595203

Flow Frequency Method: Weibull

Flow Frequency Return Periods for Pre-Project. POC #1

Return Period	**Flow(cfs)**
2 year	2.0444
5 year	3.544216
10 year	4.967914
25 year	6.000141

Flow Frequency Return Periods for Mitigated. POC #1

Return Period	**Flow(cfs)**
2 year	1.83979
5 year	2.792732
10 year	3.618349
25 year	4.870001

Annual Peaks

Annual Peaks for Pre-Project and Mitigated. POC #1

Year	**Pre-Project**	**Mitigated**
1960	0.457	0.426
1961	0.157	0.756
1962	1.965	1.960
1963	2.927	2.666
1964	2.782	2.984
1965	1.109	0.872
1966	0.135	0.611
1967	2.602	2.654
1968	4.612	3.537
1969	2.341	1.558
1970	2.637	1.649
1971	2.044	2.175
1972	0.185	0.254
1973	2.337	2.054

1974	2.119	1.369
1975	1.773	1.199
1976	0.225	0.373
1977	0.219	0.477
1978	1.761	1.271
1979	1.489	1.739
1980	3.815	2.878
1981	0.155	0.759
1982	3.988	2.083
1983	3.482	2.670
1984	1.236	1.773
1985	1.414	2.562
1986	3.077	2.632
1987	0.152	0.918
1988	1.439	0.535
1989	0.201	0.279
1990	0.291	1.397
1991	1.081	1.115
1992	2.870	2.512
1993	2.602	1.388
1994	0.327	1.433
1995	2.858	2.102
1996	4.950	2.822
1997	2.402	1.874
1998	2.245	1.324
1999	0.594	0.261
2000	1.613	1.523
2001	0.170	0.201
2002	0.271	0.922
2003	4.174	2.753
2004	7.973	5.908
2005	2.758	2.396
2006	1.217	1.397
2007	0.589	1.124
2008	2.437	2.472
2009	4.028	3.249
2010	5.690	3.577
2011	3.134	1.681
2012	2.144	1.893
2013	5.980	5.822
2014	1.649	3.651
2015	5.011	3.818
2016	4.982	3.934
2017	6.038	4.371
2018	0.321	1.123
2019	2.311	2.786
2020	1.056	2.486
2021	0.610	2.059
2022	1.646	1.840

Ranked Annual Peaks

Ranked Annual Peaks for Pre-Project and Mitigated. POC #1

Rank	Pre-Project	Mitigated
1	7.9731	5.9076
2	6.0380	5.8222
3	5.9803	4.3712
4	5.6904	3.9336
5	5.0109	3.8182

6	4.9819	3.6505
7	4.9499	3.5770
8	4.6120	3.5371
9	4.1744	3.2489
10	4.0283	2.9836
11	3.9883	2.8781
12	3.8152	2.8222
13	3.4817	2.7859
14	3.1343	2.7528
15	3.0768	2.6699
16	2.9273	2.6662
17	2.8702	2.6540
18	2.8575	2.6319
19	2.7821	2.5619
20	2.7578	2.5116
21	2.6371	2.4859
22	2.6021	2.4721
23	2.6016	2.3962
24	2.4370	2.1753
25	2.4024	2.1015
26	2.3413	2.0831
27	2.3368	2.0586
28	2.3114	2.0539
29	2.2448	1.9597
30	2.1445	1.8935
31	2.1187	1.8744
32	2.0444	1.8398
33	1.9654	1.7727
34	1.7730	1.7392
35	1.7615	1.6811
36	1.6487	1.6490
37	1.6457	1.5585
38	1.6126	1.5227
39	1.4886	1.4330
40	1.4393	1.3974
41	1.4144	1.3973
42	1.2359	1.3879
43	1.2173	1.3692
44	1.1092	1.3244
45	1.0808	1.2713
46	1.0564	1.1986
47	0.6099	1.1242
48	0.5939	1.1226
49	0.5893	1.1153
50	0.4566	0.9224
51	0.3274	0.9185
52	0.3212	0.8722
53	0.2906	0.7592
54	0.2709	0.7560
55	0.2251	0.6111
56	0.2193	0.5350
57	0.2012	0.4772
58	0.1850	0.4261
59	0.1704	0.3732
60	0.1569	0.2786
61	0.1554	0.2614
62	0.1520	0.2545
63	0.1349	0.2007

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.2044	1194	1313	109	Pass
0.2526	984	928	94	Pass
0.3007	865	795	91	Pass
0.3488	754	703	93	Pass
0.3969	677	622	91	Pass
0.4450	625	566	90	Pass
0.4931	577	520	90	Pass
0.5413	530	484	91	Pass
0.5894	492	441	89	Pass
0.6375	453	388	85	Pass
0.6856	418	366	87	Pass
0.7337	385	346	89	Pass
0.7818	370	317	85	Pass
0.8299	333	304	91	Pass
0.8781	303	284	93	Pass
0.9262	289	266	92	Pass
0.9743	274	255	93	Pass
1.0224	254	245	96	Pass
1.0705	240	225	93	Pass
1.1186	226	209	92	Pass
1.1668	216	190	87	Pass
1.2149	207	183	88	Pass
1.2630	199	170	85	Pass
1.3111	186	159	85	Pass
1.3592	180	149	82	Pass
1.4073	171	139	81	Pass
1.4555	160	131	81	Pass
1.5036	148	124	83	Pass
1.5517	143	117	81	Pass
1.5998	134	108	80	Pass
1.6479	128	102	79	Pass
1.6960	122	94	77	Pass
1.7441	117	86	73	Pass
1.7923	111	78	70	Pass
1.8404	107	76	71	Pass
1.8885	104	72	69	Pass
1.9366	95	69	72	Pass
1.9847	86	66	76	Pass
2.0328	85	63	74	Pass
2.0810	84	59	70	Pass
2.1291	83	57	68	Pass
2.1772	79	54	68	Pass
2.2253	75	51	68	Pass
2.2734	71	50	70	Pass
2.3215	70	46	65	Pass
2.3697	68	44	64	Pass
2.4178	63	43	68	Pass
2.4659	60	41	68	Pass
2.5140	60	35	58	Pass
2.5621	57	34	59	Pass
2.6102	50	33	66	Pass
2.6584	48	29	60	Pass
2.7065	45	26	57	Pass

2.7546	43	24	55	Pass
2.8027	38	23	60	Pass
2.8508	35	20	57	Pass
2.8989	31	19	61	Pass
2.9470	28	18	64	Pass
2.9952	28	17	60	Pass
3.0433	27	15	55	Pass
3.0914	25	15	60	Pass
3.1395	24	14	58	Pass
3.1876	23	14	60	Pass
3.2357	23	14	60	Pass
3.2839	22	13	59	Pass
3.3320	22	13	59	Pass
3.3801	22	13	59	Pass
3.4282	22	13	59	Pass
3.4763	21	13	61	Pass
3.5244	19	11	57	Pass
3.5726	19	10	52	Pass
3.6207	19	9	47	Pass
3.6688	17	8	47	Pass
3.7169	17	8	47	Pass
3.7650	17	8	47	Pass
3.8131	16	8	50	Pass
3.8612	15	7	46	Pass
3.9094	14	7	50	Pass
3.9575	14	6	42	Pass
4.0056	12	6	50	Pass
4.0537	11	5	45	Pass
4.1018	11	5	45	Pass
4.1499	11	4	36	Pass
4.1981	10	4	40	Pass
4.2462	10	4	40	Pass
4.2943	10	4	40	Pass
4.3424	10	4	40	Pass
4.3905	9	2	22	Pass
4.4386	9	2	22	Pass
4.4868	9	2	22	Pass
4.5349	9	2	22	Pass
4.5830	9	2	22	Pass
4.6311	8	2	25	Pass
4.6792	8	2	25	Pass
4.7273	8	2	25	Pass
4.7755	8	2	25	Pass
4.8236	8	2	25	Pass
4.8717	8	2	25	Pass
4.9198	8	2	25	Pass
4.9679	7	2	28	Pass

Water Quality

Model Default Modifications

Total of 0 changes have been made.

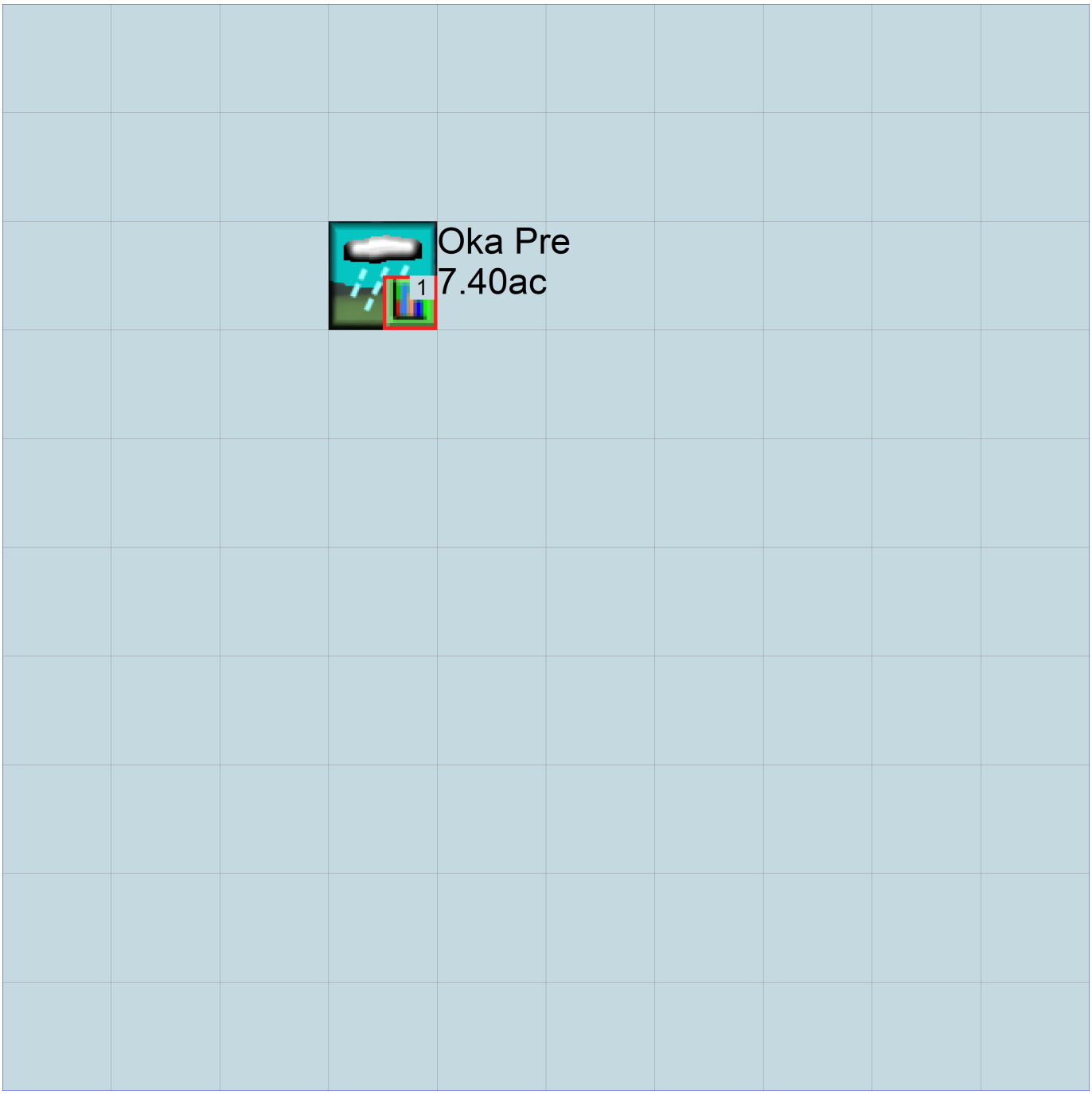
PERLND Changes

No PERLND changes have been made.

IMPLND Changes

No IMPLND changes have been made.

Appendix
Pre-Project Schematic



Mitigated Schematic

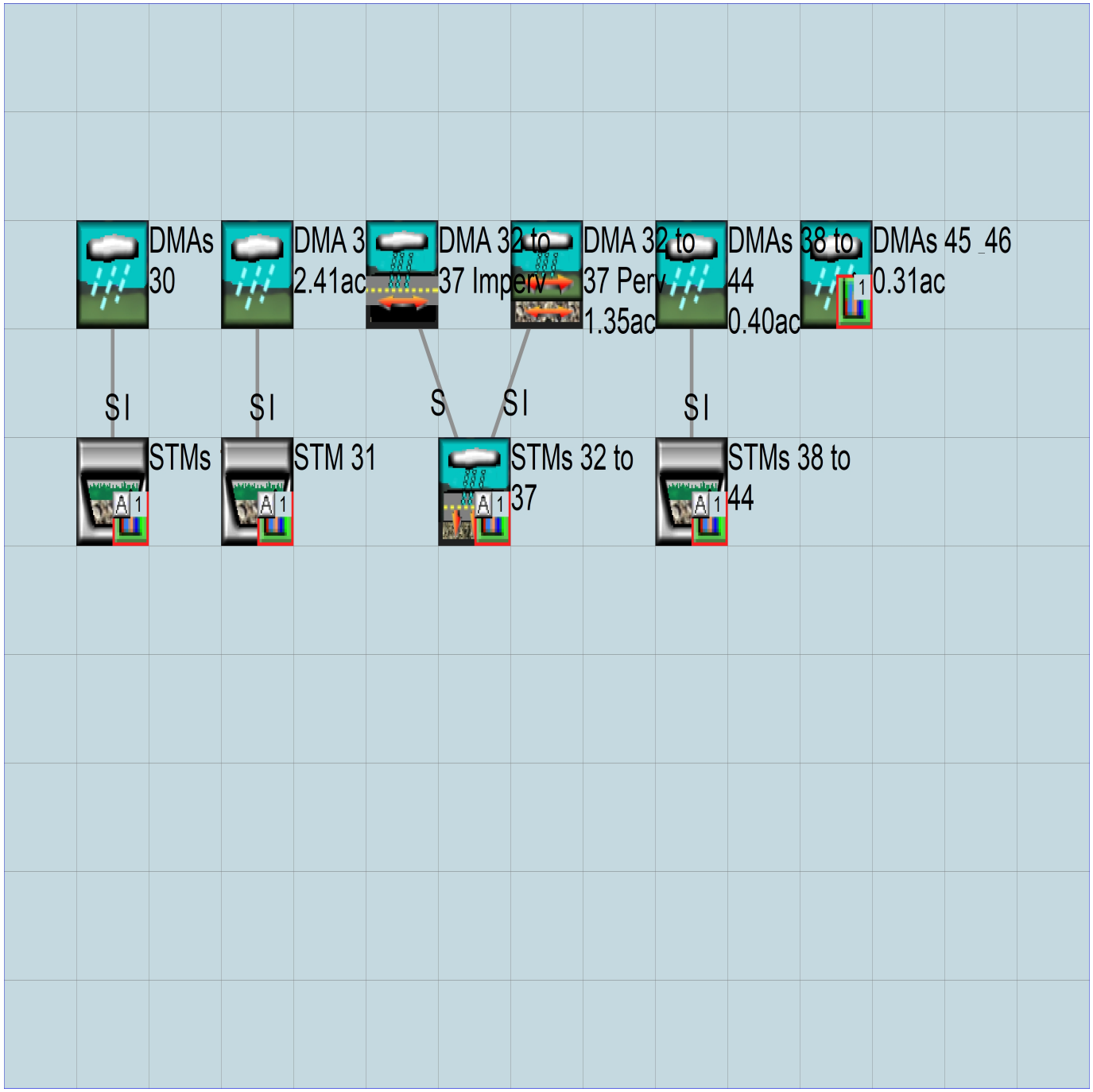


*Figure not OCR compatible.

Disclaimer

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APPENDIX D

Sizing Spreadsheets for STM 1 to 30 (Planters)

Instructions: Complete this worksheet for each Drainage Management Area of the project that has a combination flow- and volume-based treatment measure. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

Worksheet for Sizing Flow- and Volume-Based Treatment Measures (Combination Flow and Volume Approach)

Santa Clara Valley *Urban Runoff* Pollution Prevention Program

Stormwater Treament Measure: **Flow-through planter box** STMs 1, 19, 21, 25, and 27

For bioretention areas and flow-through planters, the following approach may be used to take into consideration both the flow of stormwater through the planting media and the volume of stormwater in the surface ponding area.

Step 1 Determine the contributing drainage area to the treatment measure:

Drainage Area = **1854** **square feet**

Step 2 Determine the Percent Imperviousness of the drainage area.
Enter the amount of **surface** area draining to the BMP:

a **Impervious Area =** **1854** **square feet** *Includes rooftops, hardscape, streets, and sidewalks, etc.*

b **Pervious Area =** **0** **square feet**

% Impervious = **100** **%**

Step 3 Determine the required treatment volume (using Adapted CASQA Stormwater BMP Handbook Approach).

a Find the mean annual precipitation at the site (MAPsite).
Estimate where the site is on Figure B-1 and estimate the mean annual precipitation in inches from the rain line (isopleth) nearest to the project site.
Interpolate between isopleths if necessary. Click here for map (Figure B-1)

MAP_{site} = **22** *Site Mean Annual Precipitation*

b Identify the reference rain gage closest to the project site (San Jose Airport, Palo Alto, or Morgan Hill).

Closest Reference Rain Gage: **San Jose Airport**

MAP_{gage} = **13.9** **inches** *Reference Gage Mean Annual Precipitation*

c Determine the rain gage correction factor for the precipitation at the site from Step 3 and Step 4.

MAP correction factor = **1.58** *Correction factor = MAP site/MAPgage*

d Identify the representative soil type for the drainage area.
Identify from Figure B-1 or from site soils data, the soil type that is representative of the pervious portion of the project (see dropdown menu).

Click here for map (Figure B-1)

Site Soil Type = **Loam (B)** *(if soil will be compacted during site preparation and grading, the soil's infiltration rate will be decreased. Modify your answer to a soil with a lower infiltration rate)*

Does the site planning allow for protection of natural areas, vegetation, and soils so that the soils outside the building footprint are not graded/compacted?

No

If your answer is no, and the soil will be compacted during site preparation and grading, the soil's infiltration ability will be decreased. Modify your answer to a soil with a lower infiltration rate (e.g., Silt Loam to Clay Loam or Clay).

e Determine the average slope for the drainage area:

Average Slope (%) = **1**

f Determine the unit basin storage volume from sizing curves:

Unit Basin Storage (UBS) = **0.58** **Inches** *Unit basin storage volume from Figure B-2, B-3, or B-4, based on slope*

g Determine the Adjusted Unit Basin Storage Volume for the site:

Adjusted UBS = **0.92** **Inches** *Adjusted UBS = Rain Gage Correction Factor x Unit Basin Storage Volume*

h Determine the Design Volume:

Design Volume = **142** **cubic feet** *Design Volume = Adj. Unit Basin Storage Volume x Total Drainage Area*

Step 4 Determine the Design Rainfall Intensity (Uniform Intensity Approach, Section III.C, Step 3) which is 0.2 in/hr:

Design Rainfall Intensity = **0.20** **in/hr**

Step 5 Assume that the rain event that generates the Adjusted Unit Basin Storage Volume of runoff occurs at the Design Rainfall Intensity for the entire length of the storm. Calculate the duration of the storm by dividing the Adjusted Unit Basin Storage Volume by the Design Rainfall Intensity. In other words, determine the amount of time required for the Adjusted Unit Basin Storage Volume to be achieved at the design intensity rate.

Duration = **4.59** **hours** *Adjusted UBS ÷ Design Rainfall Intensity*

Step 6 Make a preliminary estimate of the surface area of the treatment measure:

Try a preliminary surface area estimate = 55.62 Square feet *3% of total drainage area*

BMP Surface Area = **58** **Square feet** Actual facility size is 78 sf, this shows oversized for proposed 6 inches of ponding as per BAHM

Step 7 Calculate the volume of runoff that filters through the biotreatment soil at a rate of 5 inches per hour (the design surface loading rate for bioretention facilities), for the duration of the storm calculated in Step 5.

Volume of Treated Runoff = **111** **cubic feet** *Surface Area x Duration*

Step 8 Calculate the portion of the water quality design (WQD) volume remaining after treatment is accomplished by filtering through the biotreatment soil.
The result is the amount that must be stored in the ponding area above the bioretention surface area estimated in Step 6.

Volume in Ponding Area = **31**

Step 9 Calculate the depth of the volume in the ponding area by dividing this volume by the estimated surface area in Step 6.

Depth of Ponding = **6** **Inches**

The average ponding depth is acceptable
The range of allowable ponding depths in a bioretention facility or flow-through planter is between 0.5 and 1.0 feet (6 and 12 inches)
0.5 feet is recommended

Instructions: Complete this worksheet for each Drainage Management Area of the project that has a combination flow- and volume-based treatment measure. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

Worksheet for Sizing Flow- and Volume-Based Treatment Measures (Combination Flow and Volume Approach)

Santa Clara Valley *Urban Runoff* Pollution Prevention Program

Stormwater Treament Measure: **Flow-through planter box** STMs 2, 4, 8, 10, 14, 16, 20, 22, 26, 28,

For bioretention areas and flow-through planters, the following approach may be used to take into consideration both the flow of stormwater through the planting media and the volume of stormwater in the surface ponding area.

Step 1 Determine the contributing drainage area to the treatment measure:

Drainage Area = **1838** **square feet**

Step 2 Determine the Percent Imperviousness of the drainage area.
Enter the amount of **surface** area draining to the BMP:

a **Impervious Area =** **1838** **square feet** *Includes rooftops, hardscape, streets, and sidewalks, etc.*

b **Pervious Area =** **0** **square feet**

% Impervious = **100** **%**

Step 3 Determine the required treatment volume (using Adapted CASQA Stormwater BMP Handbook Approach).

a Find the mean annual precipitation at the site (MAPsite).
Estimate where the site is on Figure B-1 and estimate the mean annual precipitation in inches from the rain line (isopleth) nearest to the project site.
Interpolate between isopleths if necessary. Click here for map (Figure B-1)

MAP_{site} = **22** *Site Mean Annual Precipitation*

b Identify the reference rain gage closest to the project site (San Jose Airport, Palo Alto, or Morgan Hill).

Closest Reference Rain Gage: **San Jose Airport**

MAP_{gage} = **13.9** **inches** *Reference Gage Mean Annual Precipitation*

c Determine the rain gage correction factor for the precipitation at the site from Step 3 and Step 4.

MAP correction factor = **1.58** *Correction factor = MAP site/MAPgage*

d Identify the representative soil type for the drainage area.
Identify from Figure B-1 or from site soils data, the soil type that is representative of the pervious portion of the project (see dropdown menu).

Click here for map (Figure B-1)

Site Soil Type = **Loam (B)** *(if soil will be compacted during site preparation and grading, the soil's infiltration rate will be decreased. Modify your answer to a soil with a lower infiltration rate)*

Does the site planning allow for protection of natural areas, vegetation, and soils so that the soils outside the building footprint are not graded/compacted?

No

If your answer is no, and the soil will be compacted during site preparation and grading, the soil's infiltration ability will be decreased. Modify your answer to a soil with a lower infiltration rate (e.g., Silt Loam to Clay Loam or Clay).

e Determine the average slope for the drainage area:

Average Slope (%) = **1**

f Determine the unit basin storage volume from sizing curves:

Unit Basin Storage (UBS) = **0.58** **Inches** *Unit basin storage volume from Figure B-2, B-3, or B-4, based on slope*

g Determine the Adjusted Unit Basin Storage Volume for the site:

Adjusted UBS = **0.92** **Inches** *Adjusted UBS = Rain Gage Correction Factor x Unit Basin Storage Volume*

h Determine the Design Volume:

Design Volume = **141** **cubic feet** *Design Volume = Adj. Unit Basin Storage Volume x Total Drainage Area*

Step 4 Determine the Design Rainfall Intensity (Uniform Intensity Approach, Section III.C, Step 3) which is 0.2 in/hr:

Design Rainfall Intensity = **0.20** **in/hr**

Step 5 Assume that the rain event that generates the Adjusted Unit Basin Storage Volume of runoff occurs at the Design Rainfall Intensity for the entire length of the storm. Calculate the duration of the storm by dividing the Adjusted Unit Basin Storage Volume by the Design Rainfall Intensity. In other words, determine the amount of time required for the Adjusted Unit Basin Storage Volume to be achieved at the design intensity rate.

Duration = **4.59** **hours** *Adjusted UBS ÷ Design Rainfall Intensity*

Step 6 Make a preliminary estimate of the surface area of the treatment measure:

Try a preliminary surface area estimate = 55.14 Square feet *3% of total drainage area*

BMP Surface Area = **58** **Square feet** Acutal STM size is 78 sf, this shows oversized for 6 inch ponding as per BAHM

Step 7 Calculate the volume of runoff that filters through the biotreatment soil at a rate of 5 inches per hour (the design surface loading rate for bioretention facilities), for the duration of the storm calculated in Step 5.

Volume of Treated Runoff = **111** **cubic feet** *Surface Area x Duration*

Step 8 Calculate the portion of the water quality design (WQD) volume remaining after treatment is accomplished by filtering through the biotreatment soil.
The result is the amount that must be stored in the ponding area above the bioretention surface area estimated in Step 6.

Volume in Ponding Area = **30**

Step 9 Calculate the depth of the volume in the ponding area by dividing this volume by the estimated surface area in Step 6.

Depth of Ponding = **6** **Inches**

The average ponding depth is acceptable
The range of allowable ponding depths in a bioretention facility or flow-through planter is between 0.5 and 1.0 feet (6 and 12 inches)
0.5 feet is recommended

Instructions: Complete this worksheet for each Drainage Management Area of the project that has a combination flow- and volume-based treatment measure. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

Worksheet for Sizing Flow- and Volume-Based Treatment Measures (Combination Flow and Volume Approach)

Santa Clara Valley *Urban Runoff* Pollution Prevention Program

Stormwater Treament Measure: Flow-through planter box STMs 6, 12, 18, 24, 30

For bioretention areas and flow-through planters, the following approach may be used to take into consideration both the flow of stormwater through the planting media and the volume of stormwater in the surface ponding area.

Step 1 Determine the contributing drainage area to the treatment measure:

Drainage Area = 1814 **square feet**

Step 2 Determine the Percent Imperviousness of the drainage area.
Enter the amount of **surface** area draining to the BMP:

a **Impervious Area =** 1814 **square feet** *Includes rooftops, hardscape, streets, and sidewalks, etc.*

b **Pervious Area =** 0 **square feet**

% Impervious = 100 **%**

Step 3 Determine the required treatment volume (using Adapted CASQA Stormwater BMP Handbook Approach).

a Find the mean annual precipitation at the site (MAPsite).
Estimate where the site is on Figure B-1 and estimate the mean annual precipitation in inches from the rain line (isopleth) nearest to the project site.
Interpolate between isopleths if necessary. Click here for map (Figure B-1)

MAP_{site} = 22 *Site Mean Annual Precipitation*

b Identify the reference rain gage closest to the project site (San Jose Airport, Palo Alto, or Morgan Hill).

Closest Reference Rain Gage: San Jose Airport

MAP_{gage} = 13.9 **inches** *Reference Gage Mean Annual Precipitation*

c Determine the rain gage correction factor for the precipitation at the site from Step 3 and Step 4.

MAP correction factor = 1.58 *Correction factor = MAP site/MAPgage*

d Identify the representative soil type for the drainage area.
Identify from Figure B-1 or from site soils data, the soil type that is representative of the pervious portion of the project (see dropdown menu).

Click here for map (Figure B-1)

Site Soil Type = Loam (B) *(if soil will be compacted during site preparation and grading, the soil's infiltration rate will be decreased. Modify your answer to a soil with a lower infiltration rate)*

Does the site planning allow for protection of natural areas, vegetation, and soils so that the soils outside the building footprint are not graded/compacted?

No

If your answer is no, and the soil will be compacted during site preparation and grading, the soil's infiltration ability will be decreased. Modify your answer to a soil with a lower infiltration rate (e.g., Silt Loam to Clay Loam or Clay).

e Determine the average slope for the drainage area:

Average Slope (%) = 1

f Determine the unit basin storage volume from sizing curves:

Unit Basin Storage (UBS) = 0.58 **Inches** *Unit basin storage volume from Figure B-2, B-3, or B-4, based on slope*

g Determine the Adjusted Unit Basin Storage Volume for the site:

Adjusted UBS = 0.92 **Inches** *Adjusted UBS = Rain Gage Correction Factor x Unit Basin Storage Volume*

h Determine the Design Volume:

Design Volume = 139 **cubic feet** *Design Volume = Adj. Unit Basin Storage Volume x Total Drainage Area*

Step 4 Determine the Design Rainfall Intensity (Uniform Intensity Approach, Section III.C, Step 3) which is 0.2 in/hr:

Design Rainfall Intensity = 0.20 **in/hr**

Step 5 Assume that the rain event that generates the Adjusted Unit Basin Storage Volume of runoff occurs at the Design Rainfall Intensity for the entire length of the storm. Calculate the duration of the storm by dividing the Adjusted Unit Basin Storage Volume by the Design Rainfall Intensity. In other words, determine the amount of time required for the Adjusted Unit Basin Storage Volume to be achieved at the design intensity rate.

Duration = 4.59 **hours** *Adjusted UBS ÷ Design Rainfall Intensity*

Step 6 Make a preliminary estimate of the surface area of the treatment measure:

Try a preliminary surface area estimate = 54.42 Square feet *3% of total drainage area*

BMP Surface Area = 58 **Square feet** Actual STM size is 88 sf, this shows oversized for 6 inch ponding as per BAHM

Step 7 Calculate the volume of runoff that filters through the biotreatment soil at a rate of 5 inches per hour (the design surface loading rate for bioretention facilities), for the duration of the storm calculated in Step 5.

Volume of Treated Runoff = 111 **cubic feet** *Surface Area x Duration*

Step 8 Calculate the portion of the water quality design (WQD) volume remaining after treatment is accomplished by filtering through the biotreatment soil.
The result is the amount that must be stored in the ponding area above the bioretention surface area estimated in Step 6.

Volume in Ponding Area = 28

Step 9 Calculate the depth of the volume in the ponding area by dividing this volume by the estimated surface area in Step 6.

Depth of Ponding = 6 **Inches**

The ponding depth is less than 0.5 feet. The design can be optimized with a smaller surface area. Try a smaller surface area in Step 6.
The range of allowable ponding depths in a bioretention facility or flow-through planter is between 0.5 and 1.0 feet (6 and 12 inches)
0.5 feet is recommended

Instructions: Complete this worksheet for each Drainage Management Area of the project that has a combination flow- and volume-based treatment measure. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

Worksheet for Sizing Flow- and Volume-Based Treatment Measures (Combination Flow and Volume Approach)

Santa Clara Valley *Urban Runoff* Pollution Prevention Program

Stormwater Treament Measure: **Flow-through planter box** STMs 5, 11, 17, 23, 29

For bioretention areas and flow-through planters, the following approach may be used to take into consideration both the flow of stormwater through the planting media and the volume of stormwater in the surface ponding area.

Step 1 Determine the contributing drainage area to the treatment measure:

Drainage Area = 1395 **square feet**

Step 2 Determine the Percent Imperviousness of the drainage area.
Enter the amount of **surface** area draining to the BMP:

a **Impervious Area =** 1395 **square feet** *Includes rooftops, hardscape, streets, and sidewalks, etc.*

b **Pervious Area =** 0 **square feet**

% Impervious = 100 **%**

Step 3 Determine the required treatment volume (using Adapted CASQA Stormwater BMP Handbook Approach).

a Find the mean annual precipitation at the site (MAPsite).
Estimate where the site is on Figure B-1 and estimate the mean annual precipitation in inches from the rain line (isopleth) nearest to the project site.
Interpolate between isopleths if necessary. Click here for map (Figure B-1)

MAP_{site} = 22 *Site Mean Annual Precipitation*

b Identify the reference rain gage closest to the project site (San Jose Airport, Palo Alto, or Morgan Hill).

Closest Reference Rain Gage: San Jose Airport

MAP_{gage} = 13.9 **inches** *Reference Gage Mean Annual Precipitation*

c Determine the rain gage correction factor for the precipitation at the site from Step 3 and Step 4.

MAP correction factor = 1.58 *Correction factor = MAP site/MAPgage*

d Identify the representative soil type for the drainage area.
Identify from Figure B-1 or from site soils data, the soil type that is representative of the pervious portion of the project (see dropdown menu).

Click here for map (Figure B-1)

Site Soil Type = Loam (B) *(if soil will be compacted during site preparation and grading, the soil's infiltration rate will be decreased. Modify your answer to a soil with a lower infiltration rate)*

Does the site planning allow for protection of natural areas, vegetation, and soils so that the soils outside the building footprint are not graded/compacted?

No

If your answer is no, and the soil will be compacted during site preparation and grading, the soil's infiltration ability will be decreased. Modify your answer to a soil with a lower infiltration rate (e.g., Silt Loam to Clay Loam or Clay).

e Determine the average slope for the drainage area:

Average Slope (%) = 1

f Determine the unit basin storage volume from sizing curves:

Unit Basin Storage (UBS) = 0.58 **Inches** *Unit basin storage volume from Figure B-2, B-3, or B-4, based on slope*

g Determine the Adjusted Unit Basin Storage Volume for the site:

Adjusted UBS = 0.92 **Inches** *Adjusted UBS = Rain Gage Correction Factor x Unit Basin Storage Volume*

h Determine the Design Volume:

Design Volume = 107 **cubic feet** *Design Volume = Adj. Unit Basin Storage Volume x Total Drainage Area*

Step 4 Determine the Design Rainfall Intensity (Uniform Intensity Approach, Section III.C, Step 3) which is 0.2 in/hr:

Design Rainfall Intensity = 0.20 **in/hr**

Step 5 Assume that the rain event that generates the Adjusted Unit Basin Storage Volume of runoff occurs at the Design Rainfall Intensity for the entire length of the storm. Calculate the duration of the storm by dividing the Adjusted Unit Basin Storage Volume by the Design Rainfall Intensity. In other words, determine the amount of time required for the Adjusted Unit Basin Storage Volume to be achieved at the design intensity rate.

Duration = 4.59 **hours** *Adjusted UBS ÷ Design Rainfall Intensity*

Step 6 Make a preliminary estimate of the surface area of the treatment measure:

Try a preliminary surface area estimate = 41.85 Square feet *3% of total drainage area*

BMP Surface Area = 44 **Square feet** Actual facility size is 78 sf, this shows oversized for 6 inch ponding as per BAHM

Step 7 Calculate the volume of runoff that filters through the biotreatment soil at a rate of 5 inches per hour (the design surface loading rate for bioretention facilities), for the duration of the storm calculated in Step 5.

Volume of Treated Runoff = 84 **cubic feet** *Surface Area x Duration*

Step 8 Calculate the portion of the water quality design (WQD) volume remaining after treatment is accomplished by filtering through the biotreatment soil.
The result is the amount that must be stored in the ponding area above the bioretention surface area estimated in Step 6.

Volume in Ponding Area = 23

Step 9 Calculate the depth of the volume in the ponding area by dividing this volume by the estimated surface area in Step 6.

Depth of Ponding = 6 **Inches**

The average ponding depth is acceptable
The range of allowable ponding depths in a bioretention facility or flow-through planter is between 0.5 and 1.0 feet (6 and 12 inches)
0.5 feet is recommended

APPENDIX D

BAHM Zip File

(Attached to email)

APPENDIX J

FLOODING MEMORANDUM

MEMO

To: Erik Hayden (Urban Catalyst)
From: Edward Ballman, P.E.
Cc: Rafael Hernandez, P.E. (HMH Engineers)
Date: October 14, 2025

Subject: Review of Flood Hazards Related to Los Gatos Creek, 14789 Oka Road Project, Town of Los Gatos

Thank you again for the opportunity to assist with a review of information related to flood elevations along Los Gatos Creek as they pertain to the proposed 14789 Oka Road Project in the Town of Los Gatos. This memo is intended to summarize the respective findings pertinent to design of the project.

Summary

We have reviewed hydraulic modeling available from Valley Water and have also obtained archived information through a data request to the Federal Emergency Management Agency's (FEMA) Engineering Library. Additionally, we requested information from the Town pertinent to the 42-inch diameter trunk storm drain line that runs through the northern portion of the site. The information reviewed is useful in identifying appropriate flood elevations in Los Gatos Creek as they pertain to proposed grade elevations at the site and tailwater assumptions for the modeling of the trunk storm drain line. The project proposes several measures to address potential flooding conditions, such as filling the site to elevations above FEMA's effective 100-year water surface elevation (WSE) and providing stormwater detention to reduce post-project runoff to below pre-project conditions. Filling the site to elevations above the 100-year WSE identified by FEMA will provide enhanced protection for the site and adjacent properties in the event of failure of the existing uncertified levee along the creek and will serve to confine flood flows to the creek corridor, and, since FEMA did not include the overbank area as active flow area, hydraulic modeling shows the proposed fill will not alter base flood elevations in the creek. Additionally, with the enhanced containment of flood flows in the creek, on-site floodplain storage would no longer be a consideration. We can conclude that filling the site will not affect WSEs in Los Gatos Creek as modeled by FEMA, and there will be no adverse impacts related to the base flood elevations or storm drain discharge on-site or at adjacent properties.

Overview of Currently Effective Flood Hazard Mapping

Figure 1 below shows an excerpt from FEMA's National Flood Hazard Layer (NFHL) Viewer for the reach of Los Gatos creek in the vicinity of the project site. The shading over the site indicates a Zone X Flood Area defined as areas subject to flooding in the 500-year event or in the 100-year event with flood depths less than one foot. The mapping also shows a Special Flood

Hazard Area Zone AE (blue shading) confined to the main channel and defined as areas subject to flooding in the 1-percent chance flood (100-year) event where base flood elevations have been determined. Additionally, the cross-hatched area shows the limits of the jurisdictional floodway within the creek channel. The floodway is the portion of the channel and any adjacent floodplain that must be kept free from encroachments to avoid substantial increases in flood heights.

The excerpt from Table 12, Floodway Data shown on **Figure 1** was taken from Volume 2 of the Flood Insurance Study for Santa Clara County (FEMA, February 19, 2014) and shows that the regulatory base flood elevation at Cross Section D, near the mid-point of the project creek frontage is 265.8 feet in the NAVD88 elevation datum. This corresponds to 263.24 feet in the Town of Los Gatos datum used for the project plans. The proposed project will not encroach on either the mapped Zone AE or floodway.

Los Gatos Creek Hydraulic Models

Valley Water maintains an archive of hydraulic models for many of the major streams in the northern portion of Santa Clara County. The model file for Los Gatos Creek available at the Valley Water website (File ID 3020008) is a U.S. Army Corps of Engineers HEC-2 format .dat file and is described as "From FIS – Modified Edit2 – Modified 3/93". The reference to "FIS" would be indicative that the file is associated with the FEMA Flood Insurance Study.

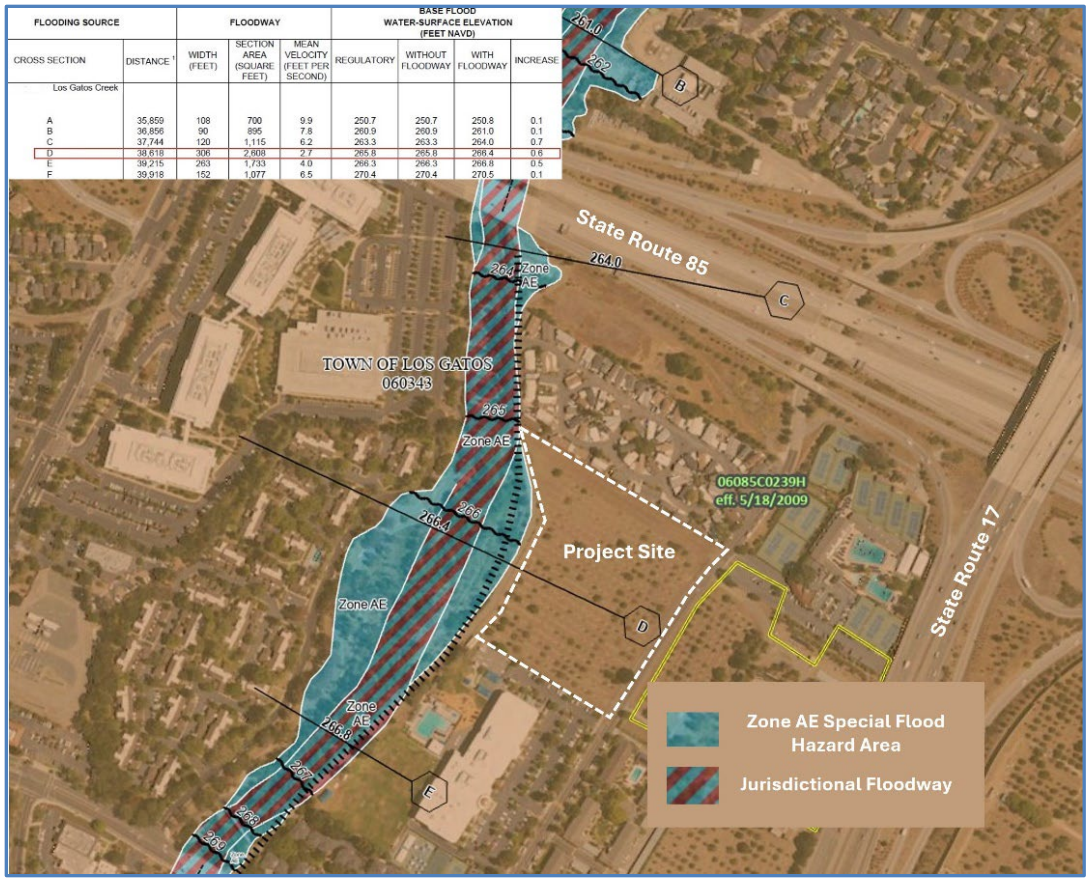


Figure 1 Currently effective flood hazard mapping along Los Gatos Creek

*Figure not OCR compatible.

The HEC-2 model was converted to run on the U.S. Army Corps of Engineers HEC-RAS platform (the successor to HEC-2). The converted model contains cross-sections that match the channel stationing listed in Table 12, Floodway Data of the FIS for the lettered cross-sections. Additionally, the flood flow rates used in the converted model match the published FIS 10-year, 50-year, 100-year, and 500-year flow rates exactly. Finally, the base flood elevation (1-percent chance flood, aka 100-year flood) output from the HEC-RAS model closely corresponds to the values published in Table 12 of the FIS, generally running approximately 0.2 to 0.3 feet lower than the tabulated flood elevations. The lower values are possibly due to differences between the HEC-2 and HEC-RAS software and/or to the use of additional interpolated cross-sections in the Valley Water HEC-2 file versus the original FEMA modeling. In any case, the higher published FIS values will still apply to the site unless changes are formally approved by FEMA.

As noted above, a request was also made to the FEMA Engineering Library for archived modeling files related to Los Gatos Creek. The information returned was photocopies of micro-fiche files showing HEC-2 modeling information that was not clearly dated but appears to correspond to hydrologic modeling files that were also returned as copies of microfiche, with the latter generally dated in the early part of 1977. The HEC-2 files in this case do not correspond to channel stationing referenced in the FIS and, since they are photocopies, cannot be readily opened using HEC-RAS. Given the lack of correspondence to data referenced in the FIS and the age of the files, it is reasonable to assume that the information returned from the FEMA Library represents earlier floodplain mapping work and not the currently effective modeling.

Implications for Site Design

Figure 2 below shows the model output for Cross Section D from the Valley Water HEC-2 files after conversion to the HEC-RAS platform.

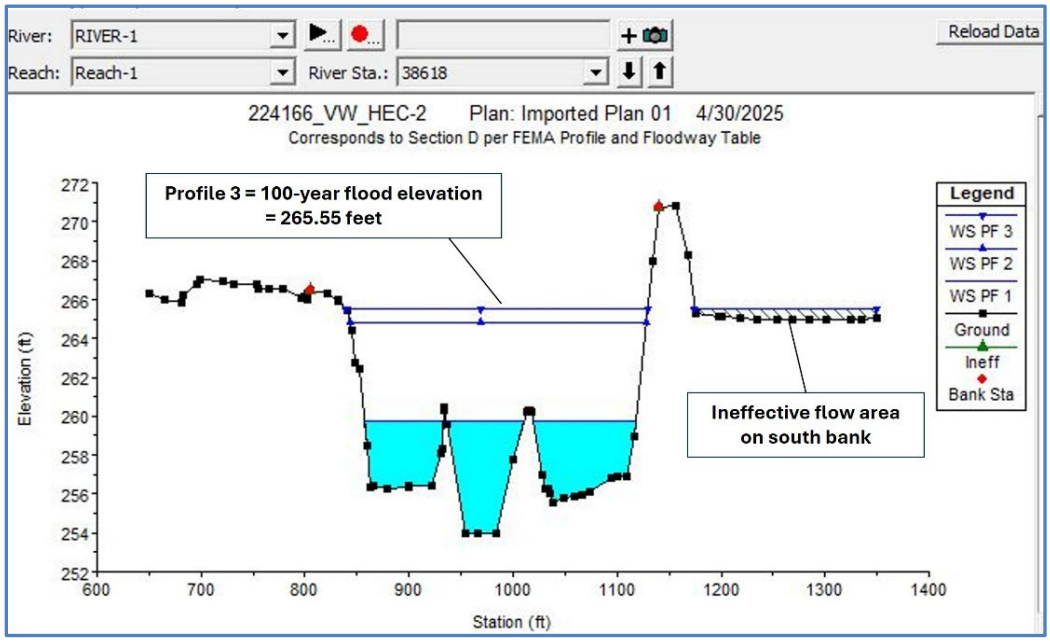


Figure 2 Hydraulic model cross-section view for lettered cross-section D at the site

Pertinent observations related to **Figure 2** include:

- *Base flood elevations*. The base flood elevation is shown as 265.55 feet NAVD and adjusted upward by 0.25 feet (see earlier discussion) gives a value of 265.8 feet NAVD as cited in the FIS. This is equivalent to 263.24 feet in the Town datum. Though not shown in **Figure 2** the model output gives an adjusted base flood elevation of 264.83 feet NAVD (262.27 feet Town datum) at the downstream property boundary, and 265.96 feet NAVD (263.40 feet Town datum) at the upstream property boundary.[1]

- *Existing south bank levee.* **Figure 2** also shows that the model includes the existing south bank levee with a top elevation of 270.7 feet NAVD. This indicates that the existing levee has almost four feet of freeboard compared to the base flood elevation. That said, the levee does not appear to have been accredited by FEMA. Therefore, it would be prudent to set project grades to take into account the above referenced base flood elevations.

- *Ineffective flow area.* Another notable aspect of the modeling is that the area outboard of the existing levee was modeled as ineffective flow area. Ineffective flow areas do not provide flood flow conveyance in the modeling, and only the flow area inboard of the levee is used by the model to calculate base flood elevations. Since the ineffective areas are discounted in the modeling, the overbank areas can be filled to elevations above the base flood elevations without impacting the base flood elevations in the main channel above those already modeled. This was confirmed by adding blocked obstructions in the overbank area representing the post-project condition and comparing pre- to post-project water surface elevations. The model results confirm that filling the ineffective area does not impact the water surface in the creek along the entire modeled reach including at neighboring parcels. **Appendix A** provides a cross-sectional view of the blocked obstruction and water surface elevation comparison tables.

Coincident Discharge for the 42-inch Trunk Storm Drain

The project survey information as well as Town record drawings for the 42-inch trunk storm drain line included as **Appendix B** (Los Gatos North 40 Phase 1 Offsite Storm and Sanitary Sewers, prepared by MacKay & Somps and dated September 13, 2017) show relatively low manhole rim elevations compared to base flood elevations in Los Gatos Creek, particularly along Oka Road. The outfall structure for the 42-inch line has a flap gate installed to prevent backflow from the creek, but the Town has requested clarification on the impacts of high tailwater on the project storm drain system that will be tied into the 42-inch line.

Guidance with respect to design tailwater values for a tributary entering a much larger stream can be found in the Hydraulic Engineering Circular No. 19 (HEC-19, March 2023) published by the Federal Highway Administration. Although the guidance is typically applied to unregulated streams, it offers recommendations for the coincident design events that should be considered. In this case Los Gatos Creek has a large drainage area (44.1 square miles per the FIS) compared

[1] The FEMA NFHL Viewer, FIS profile, and the model all show only a gradual increase in base flood elevation in the upstream direction from Cross-Section D.

to a drainage area of approximately 0.11 square miles for the trunk storm drain line. Based on the ratio of those drainage areas, the suggested design designation is "LS". This would indicate that a conservative approach would route the 10-year design event runoff in the 42-inch line against the 5-year tailwater elevation in the creek. Since FEMA does not publish values for the 5-year event, it would be additionally conservative to use the 10-year elevation in the creek at the outfall location, which is estimated to be 256.8 feet in the Town datum. For any design involving the 100-year design storm for the site, the same guidance recommends using the 20-year tailwater in the creek. Since FEMA does not publish a value for the 20-year flood event, it would be conservative to use the published 50-year flood elevation, which is 261.5 feet in the Town datum. Again, per the same technical guidance, the reverse conditions would apply, namely that the 50-year trunk line discharge would be routed against the 100-year tailwater in the creek.

Potential Overflow from the 42-inch Trunk Storm Drain

The original plans for the 42-inch trunk drain line included as **Appendix B** show that the line was installed with a flap gate to prevent backflow from Los Gatos Creek and also utilizes bolt down manhole covers. A request was made via the Town for additional documentation related to the design, but no other reports were located. That said, the design plans include hydraulic grade line (HGL) elevation call-outs for the 100-year event indicating surcharging of the line was anticipated during periods of high stage in Los Gatos Creek, and it is reasonable to assume that is the reason for including bolt down manhole covers.

To assess the potential for localized flooding per the coincident discharge analysis above, a hydraulic model of the trunk line from Oka Road to the outfall structure in Los Gatos Creek was compiled using the XPSWMM modeling platform. The model was run iteratively using the creek tailwater and system geometry shown on the 2017 plans to identify the 100-year design storm discharge that was used for the trunk line design, and a modeled discharge of 60 cfs showed a good match with the indicated HGL call-outs. The model was then modified to include the proposed additional manhole structures and was run against the 50-year tailwater elevation of 261.5 feet in the Los Gatos Creek previously noted from the coincident discharge analysis. Since the proposed drainage configuration will include bioretention areas and storm drain inlets that cannot be sealed, the modeling assumed that all trunk line manholes (including the two new proposed structures) will have bolt-down covers as per the original trunk line plans and backflow preventers will be included on any lateral lines that have predicted hydraulic grade line elevations higher than ground level. Additional inflow was added at the proposed connection points and conservatively taken as the post-project 100-year rational method discharge without detention equivalent to a total additional 8.2 cfs of inflow to the trunk line.

The results of the post-project model run for the 100-year event against the 50-year water surface elevation in Los Gatos Creek are summarized in **Table 1** below and the XPSWMM profile is included as **Appendix C**. Similar to the original trunk line design plans, the modeling predicts that the trunk line capacity would be exceeded during the 100-year event at SDMH 15, 16, 17, and 17B, confirming the prudence of using bolt-down manhole covers along the trunk line. Proposed new lateral connections to the trunk line are proposed at SDMH 15 and 17B, and, as previously noted, backflow preventers will be included for the lateral lines at these locations to preclude backflow from the trunk line. The detention capacity within the proposed bioretention units and permeable paver sections located on those lateral lines is large (915 and

23,560 cubic feet) compared to the predicted peak lateral line flowrates (1.1 cfs and 1.8 cfs at SDMH 15 and 17B respectively) and overflow of local runoff to adjacent properties would not be expected.

Table 1 XPSWMM Model Output for the 42-inch Trunk Line, 100-year event

Structure	Invert (feet)	Spill Elevation (feet)	100-year HGL (feet) Existing	100-year HGL (feet) Proposed	Freeboard (Proposed, feet)	Notes
Existing Outfall	251.80	262.6	261.90	261.50	1.10	Existing outfall structure
Existing Junction	252.62	262.4	262.10	262.20	0.20	Existing junction box, no connections
SDMH 19	252.82	263.8	263.33	262.46	1.34	Existing MH, STM 31 inflow
SDMH 18B	253.42	263.2	---	262.86	0.34	New manhole, STM inflow
SDMH 18	254.31	263.6	263.29	263.42	0.18	Existing MH, STM inflow
SDMH 17B	255.07	263.4	---	263.95	-0.55	New manhole, STM inflow
SDMH 17	255.81	263.8	264.39	264.44	-0.64	Existing MH, no connections
SDMH 16	256.01	263.3	264.53	264.58	-1.28	Existing MH in Oka Road, no connections
SDMH 15	256.15	263.6	264.66	264.67	-1.07	Existing MH in Oka Road, STM inflow

Notes: existing structure nomenclature used is from the original trunk drain plans (see Attachment A), except for SDMH 17B and 18B, which are new. All manholes are assumed to have bolt down covers as per the original design plans, and all elevations are in the Town datum. Backflow preventers will be provided for the lateral connections to SDMH 17 and SDMH 15 to eliminate the potential for backflow from the trunk line at those locations. "STM inflow" refers to inflow to the trunk line from stormwater treatment measures within the proposed project.

Conclusion

Review of available information and the plans for the proposed project, augmented by additional hydraulic modeling, show that the project site can be raised above the currently-effective FEMA based flood elevation through fill without impacting the mapped flood elevations in Los Gatos Creek. The proposed fill will provide added protection for the site and adjacent properties against overflow from the creek should there be a failure of the existing uncertified levee. The project also includes a large number of stormwater treatment measures that will provide detention volume to mitigate increases in peak flow rates and allow connection to the existing trunk storm drain line without adverse impacts to local drainage as long as bolt-down manhold covers are used and backflow preventers are installed in the identified lateral lines.

Sincerely,

BALANCE HYDROLOGICS, Inc.



Edward D. Ballman, PE
Principal Engineer



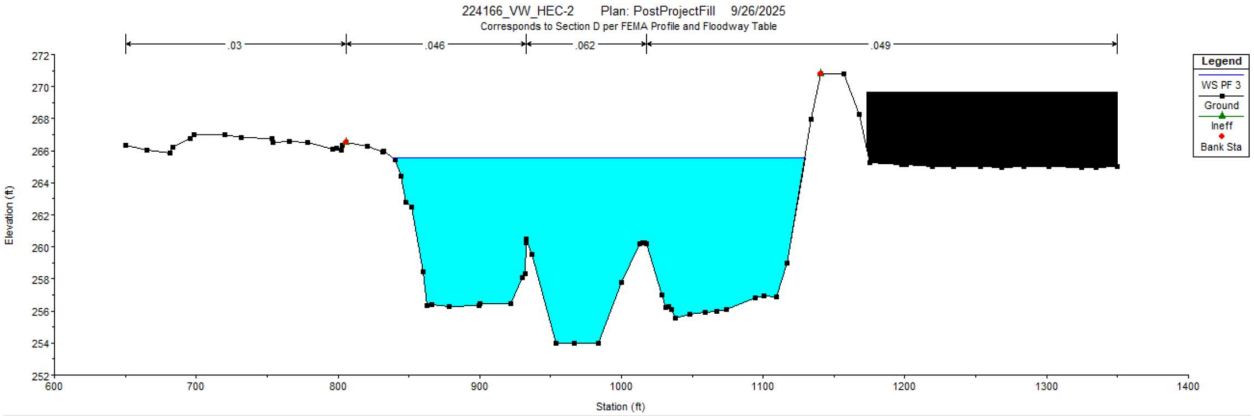
Enclosures:
Appendix A Blocked Obstruction Modeling
Appendix B 42-inch Trunk Line Plan
Appendix C XPSWMM 100-year HGL Profile

APPENDICES

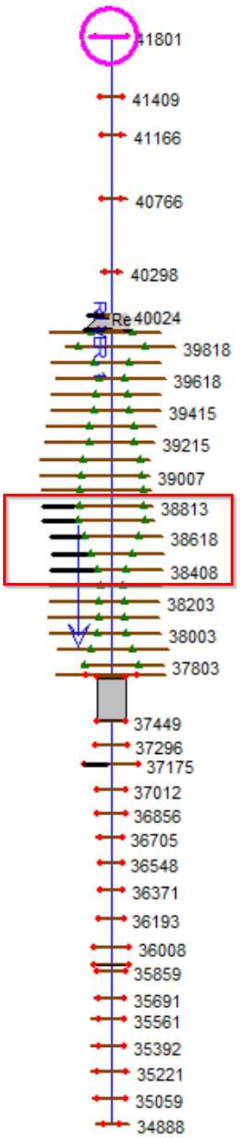
APPENDIX A

Blocked Obstruction Modeling

Blocked obstructions were added to represent fill:



These were added to the five sections spanning the length of the project:

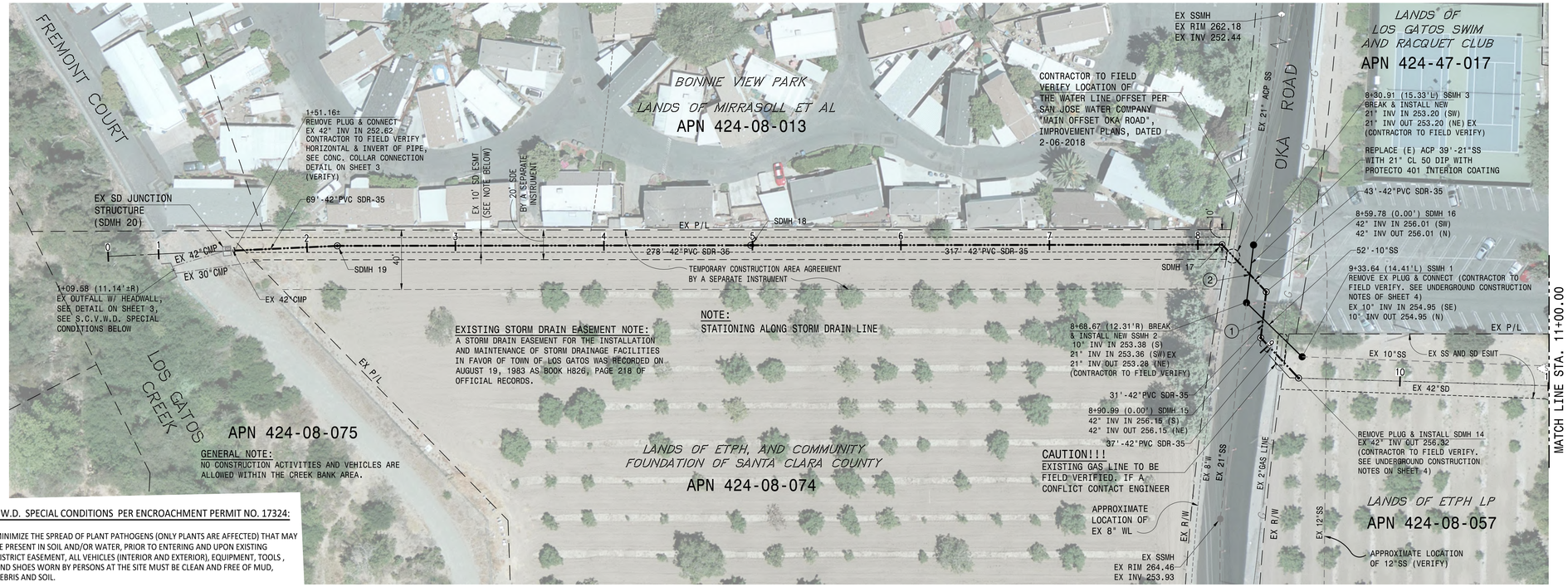


Comparison of existing and proposed conditions during 100- and 500-year events:

	River Station	100-year Pre-Project (ft, NAVD88)	100-year Post-Project (ft, NAVD88)	Difference	500-year Pre-Project (ft, NAVD88)	500-year Post-Project (ft, NAVD88)	Difference
	41801	279.45	279.45	0.00	282.24	282.24	0.00
	41409	277.71	277.71	0.00	280.42	280.42	0.00
	41166	276.51	276.51	0.00	279.17	279.17	0.00
	40766	274.5	274.5	0.00	277.22	277.22	0.00
	40298	270.51	270.51	0.00	272.67	272.67	0.00
	40024	270.51	270.51	0.00	272.81	272.81	0.00
	40018	270.56	270.56	0.00	272.9	272.9	0.00
	Lark Ave Bridge						
	39930	270.02	270.02	0.00	272.26	272.26	0.00
	39918	270.12	270.12	0.00	272.46	272.46	0.00
	39818	269.59	269.59	0.00	271.85	271.85	0.00
	39718	269.16	269.16	0.00	271.47	271.47	0.00
	39618	268.3	268.3	0.00	270.42	270.42	0.00
	39517	267.33	267.33	0.00	269.41	269.41	0.00
Addison-Penzak JCC	39415	266.75	266.75	0.00	269.04	269.04	0.00
Addison-Penzak JCC	39315	266.23	266.23	0.00	268.66	268.66	0.00
Addison-Penzak JCC	39215	265.99	265.99	0.00	268.5	268.5	0.00
Addison-Penzak JCC	39106	265.88	265.88	0.00	268.44	268.44	0.00
	39007	265.8	265.8	0.00	268.38	268.38	0.00
	38908	265.76	265.76	0.00	268.35	268.35	0.00
Bonnie View Park Project	38813	265.71	265.71	0.00	268.3	268.3	0.00
Bonnie View Park Project	38719	265.64	265.64	0.00	268.24	268.24	0.00
Bonnie View Park Project	38618	265.55	265.55	0.00	268.16	268.16	0.00
Bonnie View Park Project	38511	265.41	265.41	0.00	268.04	268.04	0.00
Bonnie View Park Project	38408	265.15	265.15	0.00	267.68	267.68	0.00
Bonnie View Park	38305	264.8	264.8	0.00	267.24	267.24	0.00
Bonnie View Park	38203	264.47	264.47	0.00	266.9	266.9	0.00
Bonnie View Park	38103	264.16	264.16	0.00	266.54	266.54	0.00
Bonnie View Park	38003	263.67	263.67	0.00	265.96	265.96	0.00
	37903	263.28	263.28	0.00	265.8	265.8	0.00
	37803	262.95	262.95	0.00	265.49	265.49	0.00
	37744	263.08	263.08	0.00	265.51	265.51	0.00
	37726	263.09	263.09	0.00	265.49	265.49	0.00
	HWY 85 Bridge						
	37449	262.57	262.57	0.00	264.92	264.92	0.00
	37296	262.33	262.33	0.00	264.63	264.63	0.00
	37175	262.23	262.23	0.00	264.53	264.53	0.00
	37012	261.51	261.51	0.00	263.62	263.62	0.00
	36856	260.7	260.7	0.00	262.8	262.8	0.00
	36705	259.84	259.84	0.00	261.95	261.95	0.00
	36548	258.89	258.89	0.00	260.82	260.82	0.00
	36371	257.49	257.49	0.00	259.61	259.61	0.00
	36193	255.01	255.01	0.00	256.42	256.42	0.00
	36008	251.01	251.01	0.00	253.52	253.52	0.00
	35906	251.22	251.22	0.00	253.67	253.67	0.00
	Kirk Dam						
	35904	250.39	250.39	0.00	252.42	252.42	0.00
	35859	250.47	250.47	0.00	252.56	252.56	0.00
	35691	249.3	249.3	0.00	251.53	251.53	0.00
	35561	247.86	247.86	0.00	250.16	250.16	0.00
	35392	247.21	247.21	0.00	249.58	249.58	0.00
	35221	246.91	246.91	0.00	249.3	249.3	0.00
	35059	246.69	246.69	0.00	249.07	249.07	0.00
	34888	244.15	244.15	0.00	245.9	245.9	0.00

APPENDIX B

42-inch Trunk Line Plan



S.C.V.W.D. SPECIAL CONDITIONS PER ENCROACHMENT PERMIT NO. 17324:

9. MINIMIZE THE SPREAD OF PLANT PATHOGENS (ONLY PLANTS ARE AFFECTED) THAT MAY BE PRESENT IN SOIL AND/OR WATER, PRIOR TO ENTERING AND UPON EXISTING DISTRICT EASEMENT, ALL VEHICLES (INTERIOR AND EXTERIOR), EQUIPMENT, TOOLS , AND SHOES WORN BY PERSONS AT THE SITE MUST BE CLEAN AND FREE OF MUD, DEBRIS AND SOIL.

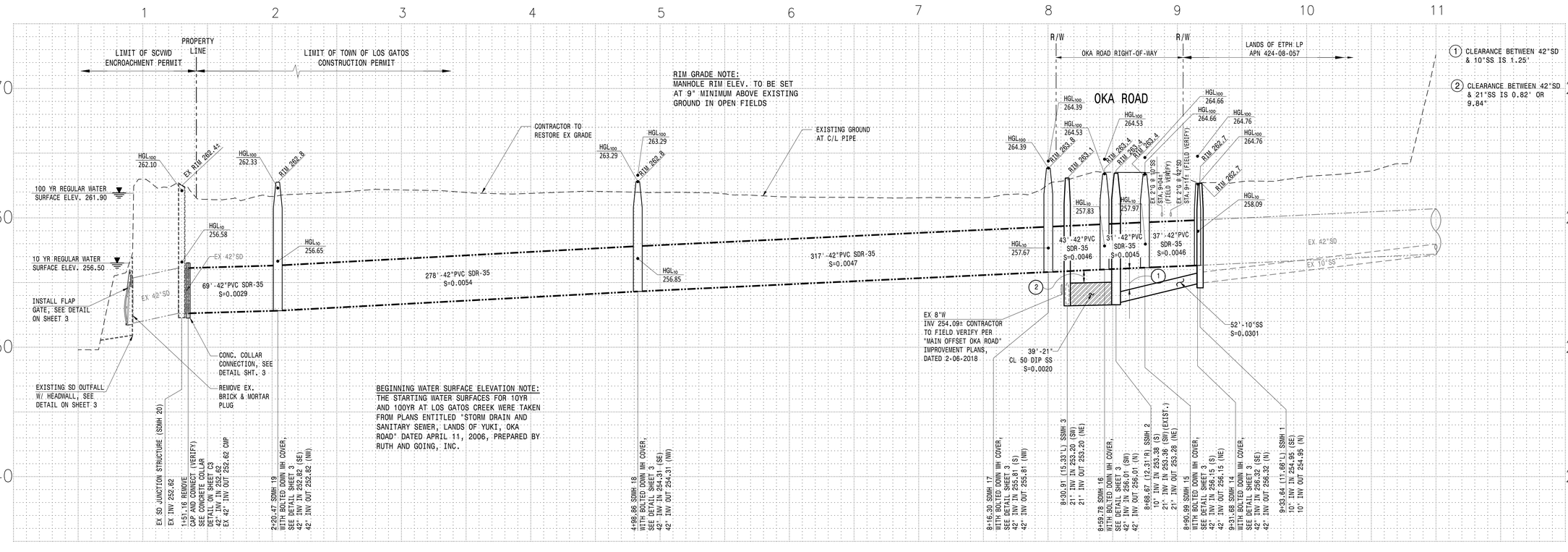
10. VEHICLES ARE TO USE AND STAY ON MAINTENANCE ROAD WHENEVER POSSIBLE.

REFER TO THE ENCROACHMENT PERMIT FOR ALL THE SPECIAL CONDITIONS.

WARNING • CAUTION
EXISTING UNDERGROUND UTILITIES
CONTACT: UNDERGROUND SERVICE ALERT
PHONE: (800) 227-2600
FOR MARKING PRIOR TO DIGGING

0 20 40 80
SCALE: 1"=40'
0' 2' 4' 8'
VERT. SCALE: 1"=4'

SANITARY SEWER AND STORM DRAIN PIPES



BEGINNING WATER SURFACE ELEVATION NOTE: THE STARTING WATER SURFACES FOR 10YR AND 100YR AT LOS GATOS CREEK WERE TAKEN FROM PLANS ENTITLED "STORM DRAIN AND SANITARY SEWER, LANDS OF YUKI, OKA ROAD" DATED APRIL 11, 2006, PREPARED BY RUTH AND GOING, INC.

REVISIONS	BY	DATE
N.T.S.		

DATE: SEPT. 13, 2017
SCALE: AS SHOWN ON PLAN
DESIGN: GCC
DRAWN: FR
CHECK: JB
ENGR: JB
PROJECT NO.: 19890-OKA

REGISTERED PROFESSIONAL ENGINEER JAMES F. TEMPLETON JR. No.43061 CIVIL STATE OF CALIFORNIA

MacKAY & SOMPS
ENGINEERS PLANNERS SURVEYORS
ESTABLISHED IN FRANKLIN DR., PLEASANTON, CA 94588 (925)225-0690

PLANS PREPARED UNDER THE DIRECTION OF:
BY: JAMES F. TEMPLETON JR.
RCE No. 43061

PLAN FOR THE IMPROVEMENT OF
LOS GATOS NORTH 40 PHASE 1
OFFSITE STORM AND SANITARY SEWERS
SANITARY SEWER AND STORM DRAIN PIPES
PLAN AND PROFILE - STA 01+51.16 TO STA. 11+00.00
LOS GATOS CALIFORNIA

SHEET 5
PAGE 5 OF 7

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

05-11-2018 12:22pm Nicholas Brown P:\19890\DES\IP\IP - OFFSITE - SD SS\05-PP2.DWG

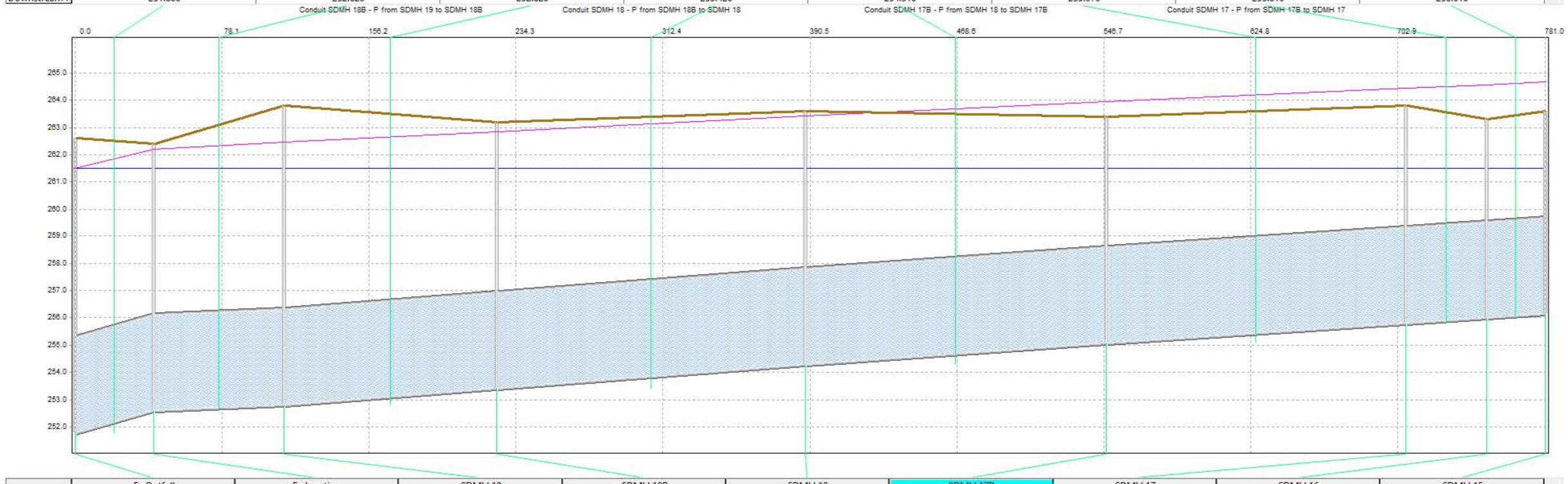
*Figure not OCR compatible.

APPENDIX C

XPSWMM 100-year HGL Profile

Link Input

	Ex Junction - P	SDMH 19 - P	SDMH 18B - P	SDMH 18 - P	SDMH 17B - P	SDMH 17 - P	SDMH 16 - P	SDMH 15 - P
Link Name	Ex Junction - P	SDMH 19 - P	SDMH 18B - P	SDMH 18 - P	SDMH 17B - P	SDMH 17 - P	SDMH 16 - P	SDMH 15 - P
Link Descripti	OR-10	OR-20	OR-25	OR-30	OR-35	OR-40	OR-50	OR-60
Diameter (Hei	3.500	3.500	3.500	3.500	3.500	3.500	3.500	3.500
Length	42.000	69.000	113.000	164.000	160.000	159.000	43.000	31.000
Upstream Inve	252.620	252.820	253.420	254.310	255.070	255.810	256.010	256.150
Downstream I	251.800	252.620	252.820	253.420	254.310	255.070	255.810	256.010



	Ex Outfall	Ex Junction	SDMH 19	SDMH 18B	SDMH 18	SDMH 17B	SDMH 17	SDMH 16	SDMH 15
Node Name	Ex Outfall	Ex Junction	SDMH 19	SDMH 18B	SDMH 18	SDMH 17B	SDMH 17	SDMH 16	SDMH 15
Node Descript	OR-00	OR-10	OR-20	OR-25	OR-30	OR-35	OR-40	OR-50	OR-60
Node X	6136354.000	6136394.000	6136456.000	6136551.000	6136690.000	6136824.000	6136958.000	6136971.000	6136947.000
Node Y	1918876.000	1918864.000	1918828.000	1918767.000	1918679.000	1918593.000	1918507.000	1918468.000	1918443.000
Ground Elevati	262.600	262.400	263.800	263.200	263.600	263.400	263.800	263.300	263.600
Invert Elevatio	251.800	252.620	252.820	253.420	254.310	255.070	255.810	256.010	256.150

Node Input | Node Hydraulic Output

APPENDIX K

NOISE AND VIBRATION ASSESSMENT

14789 OKA ROAD RESIDENTIAL DEVELOPMENT NOISE AND VIBRATION ASSESSMENT

Los Gatos, California

January 14, 2025

Prepared for:

Mallory Menne
Project Manager
Urban Catalyst
99 South Almaden Blvd, Suite 500
San Jose, CA 95113

Prepared by:

Adwait Ambaskar and
Michael S. Thill

ILLINGWORTH & RODKIN, INC.
Acoustics • Air Quality
429 East Cotati Avenue
Cotati, CA 94931
(707) 794-0400

Project: 24-134

INTRODUCTION

The project site spans approximately 6.71 acres and located at 14789 Oka Road in Los Gatos, California. The proposed development aims to construct up to 138 townhome-style condominiums across 18 three-story buildings, with a total area of 325,770 square feet. Each townhome will be equipped with a two-car garage. In addition, there will be 20 on-site guest parking spaces.

This report evaluates the project's potential to result in significant impacts with respect to applicable California Environmental Quality Act (CEQA) guidelines. The report is divided into three sections: 1) the Setting Section provides a brief description of the fundamentals of environmental noise and groundborne vibration, summarizes applicable regulatory criteria, and discusses ambient noise conditions in the project vicinity; 2) the Plan Consistency Analysis section discusses noise and land use compatibility utilizing policies in the City's General Plan; and, 3) the Impacts and Recommended Conditions Section describes the significance criteria used to evaluate project impacts, provides a discussion of each project impact, and presents recommendations to reduce, where necessary, to address project impacts to a less-than-significant level.

SETTING

Fundamentals of Environmental Noise

Noise may be defined as unwanted sound. Noise is usually objectionable because it is disturbing or annoying. The objectionable nature of sound could be caused by its *pitch* or its *loudness*. *Pitch* is the height or depth of a tone or sound, depending on the relative rapidity (frequency) of the vibrations by which it is produced. Higher pitched signals sound louder to humans than sounds with a lower pitch. *Loudness* is intensity of sound waves combined with the reception characteristics of the ear. Intensity may be compared with the height of an ocean wave in that it is a measure of the amplitude of the sound wave.

In addition to the concepts of pitch and loudness, there are several noise measurement scales which are used to describe noise in a particular location. A *decibel (dB)* is a unit of measurement which indicates the relative amplitude of a sound. The zero on the decibel scale is based on the lowest sound level that the healthy, unimpaired human ear can detect. Sound levels in decibels are calculated on a logarithmic basis. An increase of 10 decibels represents a ten-fold increase in acoustic energy, while 20 decibels is 100 times more intense, 30 decibels is 1,000 times more intense, etc. There is a relationship between the subjective noisiness or loudness of a sound and its intensity. Each 10 decibel increase in sound level is perceived as approximately a doubling of loudness over a fairly wide range of intensities. Technical terms are defined in Table 1.

TABLE 1 Definition of Acoustical Terms Used in this Report

Term	Definition
Decibel, dB	A unit describing the amplitude of sound, equal to 20 times the logarithm to the base 10 of the ratio of the pressure of the sound measured to the reference pressure. The reference pressure for air is 20 micro Pascals.
Sound Pressure Level	Sound pressure is the sound force per unit area, usually expressed in micro Pascals (or 20 micro Newtons per square meter), where 1 Pascal is the pressure resulting from a force of 1 Newton exerted over an area of 1 square meter. The sound pressure level is expressed in decibels as 20 times the logarithm to the base 10 of the ratio between the pressures exerted by the sound to a reference sound pressure (e. g., 20 micro Pascals). Sound pressure level is the quantity that is directly measured by a sound level meter.
Frequency, Hz	The number of complete pressure fluctuations per second above and below atmospheric pressure. Normal human hearing is between 20 Hz and 20,000 Hz. Infrasonic sound are below 20 Hz and Ultrasonic sounds are above 20,000 Hz.
A-Weighted Sound Level, dBA	The sound pressure level in decibels as measured on a sound level meter using the A-weighting filter network. The A-weighting filter de-emphasizes the very low and very high frequency components of the sound in a manner similar to the frequency response of the human ear and correlates well with subjective reactions to noise.
Equivalent Noise Level, L_{eq}	The average A-weighted noise level during the measurement period.
L_{max}, L_{min}	The maximum and minimum A-weighted noise level during the measurement period.
L_{01}, L_{10}, L_{50}, L_{90}	The A-weighted noise levels that are exceeded 1%, 10%, 50%, and 90% of the time during the measurement period.
Day/Night Noise Level, L_{dn} or DNL	The average A-weighted noise level during a 24-hour day, obtained after addition of 10 decibels to levels measured in the night between 10:00 pm and 7:00 am.
Community Noise Equivalent Level, CNEL	The average A-weighted noise level during a 24-hour day, obtained after addition of 5 decibels in the evening from 7:00 pm to 10:00 pm and after addition of 10 decibels to sound levels measured in the night between 10:00 pm and 7:00 am.
Ambient Noise Level	The composite of noise from all sources near and far. The normal or existing level of environmental noise at a given location.
Intrusive	That noise which intrudes over and above the existing ambient noise at a given location. The relative intrusiveness of a sound depends upon its amplitude, duration, frequency, and time of occurrence and tonal or informational content as well as the prevailing ambient noise level.

Source: Handbook of Acoustical Measurements and Noise Control, Harris, 1998.

There are several methods of characterizing sound. The most common in California is the *A-weighted sound level (dBA).* This scale gives greater weight to the frequencies of sound to which the human ear is most sensitive. Representative outdoor and indoor noise levels in units of dBA are shown in Table 2. Because sound levels can vary markedly over a short period of time, a method for describing either the average character of the sound or the statistical behavior of the variations must be utilized. Most commonly, environmental sounds are described in terms of an average level that has the same acoustical energy as the summation of all the time-varying events.

This *energy-equivalent sound/noise descriptor* is called L_{eq}. The most common averaging period is hourly, but L_{eq} can describe any series of noise events of arbitrary duration.

The scientific instrument used to measure noise is the sound level meter. Sound level meters can accurately measure environmental noise levels to within plus or minus 1 dBA. Various computer models are used to predict environmental noise levels from sources, such as roadways and airports. The accuracy of the predicted models depends upon the distance the receptor is from the noise source. Close to the noise source, the models are accurate to within about plus or minus 1 to 2 dBA.

Since the sensitivity to noise increases during the evening and at night -- because excessive noise interferes with the ability to sleep -- 24-hour descriptors have been developed that incorporate artificial noise penalties added to quiet-time noise events. The *Community Noise Equivalent Level* (*CNEL*) is a measure of the cumulative noise exposure in a community, with a 5 dB penalty added to evening (7:00 pm - 10:00 pm) and a 10 dB addition to nocturnal (10:00 pm - 7:00 am) noise levels. The *Day/Night Average Sound Level* (L_{dn} or *DNL*) is essentially the same as CNEL, with the exception that the evening time period is dropped and all occurrences during this three-hour period are grouped into the daytime period.

TABLE 2 Typical Noise Levels in the Environment

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
	110 dBA	Rock band
Jet fly-over at 1,000 feet		
	100 dBA	
Gas lawn mower at 3 feet		
	90 dBA	
Diesel truck at 50 feet at 50 mph		Food blender at 3 feet
	80 dBA	Garbage disposal at 3 feet
Noisy urban area, daytime		
Gas lawn mower, 100 feet	70 dBA	Vacuum cleaner at 10 feet
Commercial area		Normal speech at 3 feet
Heavy traffic at 300 feet	60 dBA	
		Large business office
Quiet urban daytime	50 dBA	Dishwasher in next room
Quiet urban nighttime	40 dBA	Theater, large conference room
Quiet suburban nighttime		
	30 dBA	Library
Quiet rural nighttime		Bedroom at night, concert hall (background)
	20 dBA	
		Broadcast/recording studio
	10 dBA	
	0 dBA	

Source: Technical Noise Supplement (TeNS), California Department of Transportation, September 2013.

Effects of Noise

Sleep and Speech Interference

The thresholds for speech interference indoors are about 45 dBA if the noise is steady and above 55 dBA if the noise is fluctuating. Outdoors the thresholds are about 15 dBA higher. Steady noises of sufficient intensity (above 35 dBA) and fluctuating noise levels above about 45 dBA have been shown to affect sleep. Interior residential standards for multi-family dwellings are set by the State of California at 45 dBA CNEL. Typically, the highest steady traffic noise level during the daytime is about equal to the CNEL and nighttime levels are 10 dBA lower. The standard is designed for sleep and speech protection and most jurisdictions apply the same criterion for all residential uses. Typical structural attenuation is 12 to 17 dBA with open windows. With closed windows in good condition, the noise attenuation factor is around 20 dBA for an older structure and 25 dBA for a newer dwelling.[1] Sleep and speech interference is therefore possible when exterior noise levels are about 57 to 62 dBA CNEL with open windows and 65 to 70 dBA CNEL if the windows are closed. Levels of 55 to 60 dBA are common along collector streets and secondary arterials, while 65 to 70 dBA is a typical value for a primary/major arterial. Levels of 75 to 80 dBA are normal noise levels at the first row of development outside a freeway right-of-way. In order to achieve an acceptable interior noise environment, bedrooms facing secondary roadways need to be able to have their windows closed; those facing major roadways and freeways typically need special glass windows.

Annoyance

Attitude surveys are used for measuring the annoyance felt in a community for noises intruding into homes or affecting outdoor activity areas. In these surveys, it was determined that the causes for annoyance include interference with speech, radio and television, house vibrations, and interference with sleep and rest. The CNEL as a measure of noise has been found to provide a valid correlation of noise level and the percentage of people annoyed. People have been asked to judge the annoyance caused by aircraft noise and ground transportation noise. There continues to be disagreement about the relative annoyance of these different sources. When measuring the percentage of the population highly annoyed, the threshold for ground vehicle noise is about 50 dBA CNEL. At a CNEL of about 60 dBA, approximately 12 percent of the population is highly annoyed. When the CNEL increases to 70 dBA, the percentage of the population highly annoyed increases to about 25 to 30 percent of the population. There is, therefore, an increase of about 2 percent per dBA between a CNEL of 60 to 70 dBA. Between a CNEL of 70 to 80 dBA, each decibel increase increases by about 3 percent the percentage of the population highly annoyed. People appear to respond more adversely to aircraft noise. When the CNEL is 60 dBA, approximately 30 to 35 percent of the population is believed to be highly annoyed. Each decibel increase to 70 dBA adds about 3 percentage points to the number of people highly annoyed. Above 70 dBA, each decibel increase results in about a 4 percent increase in the percentage of the population highly annoyed.[2]

[1] Based on the U.S. Department of Transportation Federal Highway Administration document "Highway Traffic Noise: Analysis and Abatement Guidance" (2010) and data from Illingworth & Rodkin, Inc. noise monitoring projects.

[2] Kryter, Karl D. The Effects of Noise on Man. Menlo Park, Academic Press, Inc., 1985.

Fundamentals of Groundborne Vibration

Ground vibration consists of rapidly fluctuating motions or waves with an average motion of zero. Several different methods are typically used to quantify vibration amplitude. One method is the Peak Particle Velocity (PPV). The PPV is defined as the maximum instantaneous positive or negative peak of the vibration wave. In this report, a PPV descriptor with units of mm/sec or in/sec is used to evaluate construction generated vibration for building damage and human complaints. Table 3 displays the reactions of people and the effects on buildings that continuous or frequent intermittent vibration levels produce. The guidelines in Table 3 represent syntheses of vibration criteria for human response and potential damage to buildings resulting from construction vibration.

TABLE 3 Reaction of People and Damage to Buildings from Continuous or Frequent Intermittent Vibration Levels

Velocity Level, PPV (in/sec)	Human Reaction	Effect on Buildings
0.01	Barely perceptible	No effect
0.04	Distinctly perceptible	Vibration unlikely to cause damage of any type to any structure
0.08	Distinctly perceptible to strongly perceptible	Recommended upper level of the vibration to which ruins and ancient monuments should be subjected
0.1	Strongly perceptible	Threshold at which there is a risk of damage to fragile buildings with no risk of damage to most buildings
0.25	Strongly perceptible to severe	Threshold at which there is a risk of damage to historic and some old buildings.
0.3	Strongly perceptible to severe	Threshold at which there is a risk of damage to older residential structures
0.5	Severe - Vibrations considered unpleasant	Threshold at which there is a risk of damage to new residential and modern commercial/industrial structures

Source: Transportation and Construction Vibration Guidance Manual, California Department of Transportation, April 2020.

Construction activities can cause vibration that varies in intensity depending on several factors. The use of pile driving and vibratory compaction equipment typically generates the highest construction related groundborne vibration levels. Because of the impulsive nature of such activities, the use of the PPV descriptor has been routinely used to measure and assess groundborne vibration and almost exclusively to assess the potential of vibration to cause damage and the degree of annoyance for humans.

The two primary concerns with construction-induced vibration, the potential to damage a structure and the potential to interfere with the enjoyment of life, are evaluated against different vibration limits. Human perception to vibration varies with the individual and is a function of physical setting and the type of vibration. Persons exposed to elevated ambient vibration levels, such as people in an urban environment, may tolerate a higher vibration level.

Structural damage can be classified as cosmetic only, such as paint flaking or minimal extension of cracks in building surfaces; minor, including limited surface cracking; or major, that may threaten the structural integrity of the building. Safe vibration limits that can be applied to assess the potential for damaging a structure vary by researcher. The damage criteria presented in Table 3 include several categories for ancient, fragile, and historic structures, the types of structures most at risk to damage. Most buildings are included within the categories ranging from "Historic and some old buildings" to "Modern industrial/commercial buildings". Construction-induced vibration that can be detrimental to the building is very rare and has only been observed in instances where the structure is at a high state of disrepair and the construction activity occurs immediately adjacent to the structure.

The annoyance levels shown in Table 3 should be interpreted with care since vibration may be found to be annoying at lower levels than those shown, depending on the level of activity or the sensitivity of the individual. To sensitive individuals, vibrations approaching the threshold of perception can be annoying. Low-level vibrations frequently cause irritating secondary vibration, such as a slight rattling of windows, doors, or stacked dishes. The rattling sound can give rise to exaggerated vibration complaints, even though there is very little risk of actual structural damage.

Regulatory Background - Noise

The State of California Environmental Quality Act (CEQA) Guidelines, Appendix G, are used to assess the potential significance of impacts pursuant to local General Plan policies, Municipal Code standards, or the applicable standards of other agencies. A summary of the applicable regulatory criteria is provided below.

State of California

State CEQA Guidelines. CEQA contains guidelines to evaluate the significance of effects of environmental noise attributable to a proposed project. Under CEQA, noise impacts would be considered significant if the project would result in:

(a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local General Plan or Noise Ordinance, or applicable standards of other agencies;

(b) Generation of excessive groundborne vibration or groundborne noise levels; or

(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, if the project would expose people residing or working in the project area to excessive noise levels.

2022 California Building Code, Title 24, Part 2. The current version of the California Building Code (CBC) requires interior noise levels in multi-family residential units attributable to exterior environmental noise sources to be limited to a level not exceeding 45 dBA L_{dn}/CNEL in any habitable room.

Santa Clara County

Santa Clara County Airport Land Use Commission Comprehensive Land Use Plan. The Comprehensive Land Use Plan (CLUP) adopted by the Santa Clara County Airport Land Use Commission contains standards for projects within the vicinity of San José International Airport which are relevant to this project:

4.3.2.1 Noise Compatibility Policies

N-1 The Community Noise Equivalent Level (CNEL) method of representing noise levels shall be used to determine if a specific land use is consistent with the CLUP.

N-2 In addition to the other policies herein, the Noise Compatibility Policies presented in Table 4-1 shall be used to determine if a specific land use is consistent with this CLUP.

N-3 Noise impacts shall be evaluated according to the Aircraft Noise Contours presented on Figure 5 (not shown in this report).

N-4 No residential construction shall be permitted within the 65 dB CNEL contour boundary unless it can be demonstrated that the resulting interior sound levels will be less than 45 dB CNEL and there are no outdoor patios or outdoor activity areas associated with the residential project. All property owners within the 65 dB CNEL contour boundary who rent or lease their property for residential use shall include in their rental/lease agreement with the tenant, a statement advising that they (the tenants) are living within a high noise area and the exterior noise level is predicted to be greater than 65 dB CNEL.

N-5 Residential construction will not be permitted in the area between the 60 dB CNEL contour boundary and the 65 dB CNEL contour boundary unless it can be demonstrated that the resulting interior sound level will be no greater than 45 dB CNEL.

N-6 Noise level compatibility standards for other types of land uses shall be applied in the same manner as the above residential noise level criteria. Table 4-1 presents acceptable noise levels for other land uses in the vicinity of the Airport.

Table 4 - 1

NOISE COMPATIBILITY POLICIES

LAND USE CATEGORY	CNEL					
	55-60	60-65	65-70	70-75	75-80	80-85
Residential – low density Single-family, duplex, mobile homes	*	**	***	****	****	****
Residential – multi-family, condominiums, townhouses	*	**	***	****	****	****
Transient lodging - motels, hotels	*	*	**	****	****	****
Schools, libraries, indoor religious assemblies, hospitals, nursing homes	*	***	****	****	****	****
Auditoriums, concert halls, amphitheaters	*	***	***	****	****	****
Sports arena, outdoor spectator sports, parking	*	*	*	**	***	****
Playgrounds, neighborhood parks	*	*	***	****	****	****
Golf courses, riding stables, water recreation, cemeteries	*	*	*	**	***	****
Office buildings, business commercial and professional, retail	*	*	**	***	****	****
Industrial, manufacturing, utilities, agriculture	*	*	*	***	***	****
* Generally Acceptable	Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal conventional construction, without any special noise insulation requirements. Mobile homes may not be acceptable in these areas. Some outdoor activities might be adversely affected.					
** Conditionally Acceptable	New construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made and needed noise insulation features included in the design. Outdoor activities may be adversely affected. Residential: Conventional construction, but with closed windows and fresh air supply systems or air conditioning will normally suffice.					
*** Generally Unacceptable	New construction or development should be discouraged. If new construction or development does proceed, a detailed analysis of the noise reduction requirements must be made and needed noise insulation features included in the design. Outdoor activities are likely to be adversely affected.					
**** Unacceptable	New construction or development shall not be undertaken.					

Source: Based on General Plan Guidelines, Appendix C (2003), Figure 2 and Santa Clara County ALUC 1992 Land Use Plan, Table 1

Source: Comprehensive Land Use Plan Santa Clara County, Norman Y Mineta San José International Airport, May 25, 2011, Amended May 23, 2019.

Town of Los Gatos

Town of Los Gatos 2040 General Plan. The Town of Los Gatos identifies the following policies applicable to the proposed development:

ENV 18 - *Consider existing and future noise levels when making land use decisions in order to protect people from exposure to excessive noise levels, as defined for each land use type. Particular attention will be given to protecting noise sensitive land uses*.

ENV 18.2 Indoor Noise Level Standards
Require all interior residential noise levels to be 45 dB or less, as specified in the Town's Noise Ordinance.

ENV 18.3 Exterior Noise Levels
Require all exterior noise levels to be based on the compatibility criteria shown on Figure 8-6.

ENV 18.4 Residential and Noise-Sensitive Site Design Noise Consideration
Protect existing and proposed residential areas from noise by requiring appropriate site and building design, sound walls, a minimum landscape buffer of five feet, and/or the use of noise attenuating construction techniques and materials.

ENV 18.7 Noise Limit Enforcement
Enforce noise limits and monitor compliance with noise standards.

ENV 19 - *Ensure proposed new development is not located in areas with existing higher than-acceptable noise levels.*

ENV 19.1 Noise-sensitive Developments
Require all new noise-sensitive developments, and sound- or noise-generating uses near open space, to provide a noise study prepared by a licensed acoustician with recommendations for reducing noise impacts to the maximum allowed level in the Noise Ordinance.

ENV 19.2 Locating Development
Locate new development in areas where noise levels are appropriate for the proposed use. Use Town standards, including Figure 8-6 as a part of development review.

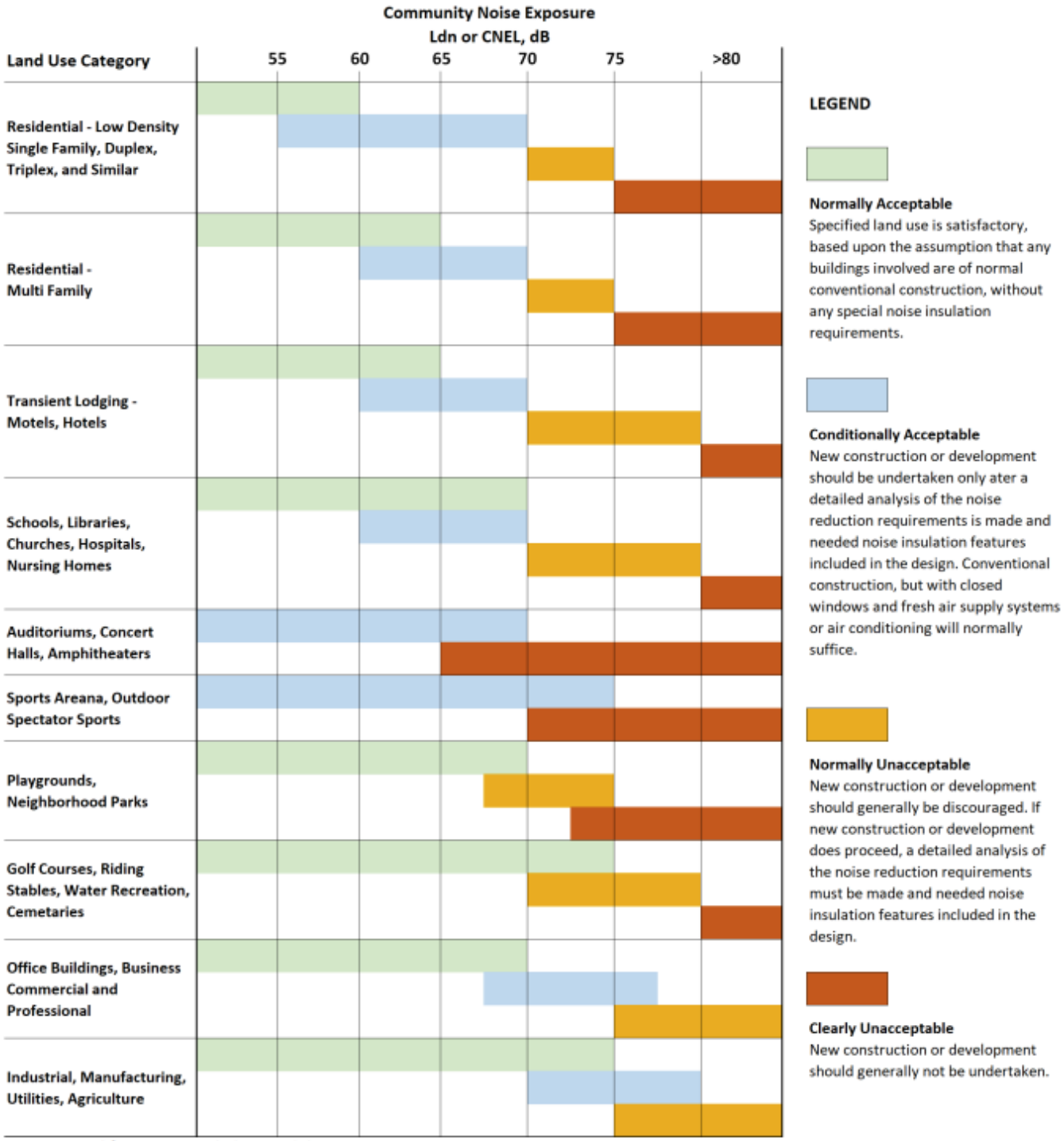
ENV 21 - *Ensure that construction and maintenance equipment noise does not adversely affect land uses.*

ENV 21.1 Noise Attenuation, Town Equipment
All Town-owned and operated construction and maintenance equipment, and equipment for these activities operated under contract with the Town, shall contain state-of-the-art noise attenuation equipment.

ENV 21.2 Noise Attenuation, Private Equipment

Monitor and modify Town ordinances, as appropriate, to control nuisance noise from maintenance equipment used in the community.

Figure 8-6 Land Use Noise Compatibility Criteria



Source: California General Plan Guidelines, 2017

Town of Los Gatos Code of Ordinances The Town Noise Ordinance (Chapter 16 of the Town Municipal Code) specifies noise limits to protect the peace, health, and safety of its citizens from such noise and vibration. The following policies would be applicable to the project.

Sec. 16.20.015. - Exterior noise levels for residential zones. No person shall cause, make, suffer, or allow to be made by any machine, animal, device or any combination of same in a residential zone, a noise level more than six (6) dB above the noise level specified for that particular noise zone, as shown on the Noise Zone Map, during that particular time frame, at any point outside of the property plane.

- The project site is located in an orange zone on the Town of Los Gatos Noise Zone Map, which indicates an ambient noise level of 48 dBA between the hours of 10:00 p.m. and 6:00 a.m., 55 dBA between the hours of 6:00 a.m. and 1:00 p.m., and 59 dBA between the hours of 1:00 p.m. and 10:00 p.m.

Sec. 16.20.035. - Construction

(a) Notwithstanding any other provision of this chapter, between the hours of 8:00 a.m. to 6:00 p.m. weekdays, and 9:00 a.m. to 4:00 p.m. Saturdays, construction, alteration or repair activities which are authorized by a valid Town permit or as otherwise allowed by Town permit, shall be allowed if they meet at least one of the following noise limitations:

(1) No individual piece of equipment shall produce a noise level exceeding eighty-five (85) dBA at twenty-five (25) feet. If the device is located within a structure on the property, the measurement shall be made at distances as close to twenty-five (25) feet from the device as possible.

(2) The noise level at any point outside of the property plane shall not exceed eighty-five (85) dBA.

Regulatory Background – Vibration

California Department of Transportation. The California Department of Transportation recommends a vibration limit of 0.5 in/sec PPV for buildings structurally sound and designed to modern engineering standards, which typically consist of buildings constructed since the 1990s. Conservative vibration limits of 0.3 in/sec PPV is used for buildings that are found to be structurally sound but where structural damage is a major concern (see Table 3 above for further explanation). For historical buildings or some older buildings, a vibration limit of 0.25 in/sec PPV would apply.

Existing Noise Environment

The project site is bound by a mobile home park to the north; Oka Road to the east; Los Gatos Creek to the west; and a community center to the south. The noise environment at the site and in the surrounding area results primarily from vehicular traffic along Oka Road and nearby State Route 85 and State Route 17.

A noise monitoring survey consisting of one long-term (LT-1) and two short-term (ST-1 and ST-2) noise measurements was conducted between Tuesday, December 17, 2024, and Friday, December 20, 2024. All measurement locations are shown in Figure 1.

Long-term noise measurement LT-1 was made along the northeastern edge of the project site, approximately 25 feet away from the centerline of Oka Road. Hourly average noise levels at LT-1 typically ranged from 57 to 65 dBA L_{eq} during the day (between 7:00 a.m. and 10:00 p.m.) and from 48 to 62 dBA L_{eq} at night (between 10:00 p.m. and 7:00 a.m.). The day-night average noise level on Wednesday, December 18, 2024, and on Thursday, December 19, 2024, was 64 dBA L_{dn}. The daily trend in noise levels at LT-1 is shown in Figure A1 through A4 of Appendix A.

Short-term noise measurements were made over 10-minute measurement periods, concurrent with the long-term noise data, on Friday, December 20, 2024, between 9:00 a.m. and 9:30 a.m. All short-term measurements are summarized in Table 4.

TABLE 4 Summary of Short-Term Noise Measurements (dBA)

Noise Measurement Location	Date, Time	Measured Noise Level, dBA					
		L_{max}	$L_{(1)}$	$L_{(10)}$	$L_{(50)}$	$L_{(90)}$	L_{eq}
ST-1: made along the southwestern boundary of site	12/20/2024, 9:00-9:10	60	56	50	47	46	48
ST-2: made along the northwestern boundary of site	12/20/2024, 9:20-9:30	52	52	51	50	49	50

FIGURE 1 Aerial Image of the Project Site and Surrounding Area with the Noise Measurement Locations Identified



Source: Google Earth 2024.

*Figure not OCR compatible.

PLAN CONSISTENCY ANALYSIS

Noise and Land Use Compatibility

Noise levels at outdoor use areas are required to be maintained at or below 65 dBA L_{dn} to be considered normally acceptable for multifamily residential land uses, according to the Town's General Plan. Additionally, residential interior noise levels are required to meet the performance standard of 45 dBA L_{dn}.

The future noise environment at the project site would continue to result primarily from vehicular traffic along Oka Road and nearby State Route 85 and State Route 17.

According to the traffic study[3] prepared for this project, 66 peak hour trips would be expected during the AM peak hour and 79 peak hour trips would be expected during the PM peak hour as a result of the project on Oka Road. Comparing these trips to the existing peak hour traffic volumes along Oka Road, these peak hour trips would result in a less than 1 dBA L_{dn} noise level increase.

To estimate the future permanent noise level increase, a 1% to 2% traffic increase per year through 2045 was estimated along State Route 85 and State Route 17. This increase is typical for a built-out area. The noise level increase by the year 2045 was calculated to be 2 dBA L_{dn}. This increase was applied throughout the project site to represent worst-case conditions.

Based on the existing noise measurement survey in the previous section, existing noise levels at the eastern edge of the site near Oka Road are 64 dBA L_{dn}. Noise levels along the western edge near Los Gatos Creek, based on the short-term measurement data, are calculated to be 57 dBA L_{dn}. Adding 2 dBA $L_{dn,}$ future worst-case noise levels along the eastern boundary of the site would be 66 dBA L_{dn} while future worst-case noise levels along the western boundary of the site would be 59 dBA L_{dn}.

Future Exterior Noise Environment

The site plan indicates a common open space located towards the northwestern end of the site. The site plan also shows common open space areas between housing unit rows.

The future noise exposure at the northwestern common open space would be about 59 dBA L_{dn}. This is below the Town's 65 dBA L_{dn} exterior noise threshold for multifamily land uses.

The future noise exposure at the between housing unit rows would range from 59 to 64 dBA L_{dn} assuming no shielding from the new homes. Additional shielding expected from the first rows of homes closest to Oka Road would ensure future noise levels would be well below the Town's 65 dBA L_{dn} exterior noise threshold for multifamily homes.

For the private decks and porches at each townhome, future noise levels would be up to 65 dBA L_{dn} for townhomes located closest to Oka Road. The other proposed townhomes would benefit

[3] Oka Road Townhomes Draft Transportation Analysis dated Dec 3, 2024 prepared by Hexagon Transportation Consultants Inc.

from shielding effects provided by the first row of townhomes to ensure that future noise exposures at the porch and decks would be well below 65 dBA L_{dn}.

No additional noise control measures would be required to meet the 65 dBA L_{dn} exterior noise threshold for the proposed multifamily townhomes.

Future Interior Noise Environment

Standard residential construction provides approximately 15 dBA of exterior-to-interior noise reduction, assuming the windows are partially open for ventilation. Standard construction with the windows closed provides approximately 20 to 25 dBA of noise reduction in interior spaces. Where exterior noise levels range from 60 to 65 dBA L_{dn}, the inclusion of adequate forced-air mechanical ventilation is often the method selected to reduce interior noise levels to acceptable levels by closing the windows to control noise. Where noise levels exceed 65 dBA L_{dn}, forced-air mechanical ventilation systems and sound-rated construction methods are normally required. Such methods or materials may include a combination of smaller window and door sizes as a percentage of the total building façade facing the noise source, sound-rated windows and doors, sound rated exterior wall assemblies, and mechanical ventilation so windows may be kept closed at the occupant's discretion.

Residential units located along the north and northeastern boundaries of the project site would be directly exposed to traffic along Oka Road, with a setback from the centerline of about 45 feet. At this distance, the ground level facades of these residences would be exposed to a future exterior noise level of 65 dBA L_{dn}. Facades for the second and third floors of these residences would be exposed to a future noise level of up to 67 dBA $L_{dn.}$ Assuming windows to be partially open, future interior noise levels in the residential units would be up to 52 dBA L_{dn}. Inclusion of adequate forced-air mechanical ventilation would provide approximately 20 to 25 dBA of noise reduction that would help achieve future interior noise levels at or below the Town's 45 dBA L_{dn} threshold for residences.

For all other residences located towards the interior of the site that benefit from shielding effects provided by the first row of townhomes along Oka Road, standard residential construction would be sufficient to meet the Town's 45 dBA L_{dn} future interior noise threshold.

Recommended Noise Insulation Features to Reduce Future Interior Noise Levels

The following noise insulation features shall be incorporated into the proposed project to reduce interior noise levels to 45 dBA L_{dn} or less at residential interiors:

- Provide a suitable form of forced-air mechanical ventilation, as determined by the local building official, for all residential units, so that windows can be kept closed at the occupant's discretion to control interior noise and achieve the interior noise standards. Standard construction materials (i.e., minimum STC 28 windows and doors) and methods would be sufficient to control noise levels indoors. No other special noise insulation features would be required.

NOISE IMPACTS AND MITIGATION MEASURES

Significance Criteria

The following criteria were used to evaluate the significance of noise and vibration resulting from the project:

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

(b) Generation of excessive groundborne vibration or groundborne noise levels;

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

Impact 1a: **Temporary Construction Noise.** Existing receptors may temporarily be exposed to construction noise levels exceeding the Town of Los Gatos thresholds. Temporary noise increase from construction would be reduced to a **less-than-significant** level with the incorporation of mitigation measures.

The project would be completed between January 2026 and March 2027 (approximate 15-month period). Construction phases would include demolition, site preparation, excavation/grading, trenching/foundation, building exterior, architectural coating, and paving. During each phase of construction, there would be a different mix of equipment operating, and noise levels would vary by phase and vary within phases, based on the amount of equipment in operation and the location at which the equipment is operating.

Noise impacts resulting from construction depend upon the noise generated by various pieces of construction equipment, the timing and duration of noise-generating activities, and the distance between construction noise sources and noise-sensitive areas. Construction noise impacts primarily result when construction activities occur during noise-sensitive times of the day (e.g., early morning, evening, or nighttime hours), the construction occurs in areas immediately adjoining noise-sensitive land uses, or when construction lasts over extended periods of time.

The Town's Code of Ordinances Section 16.20.035 limits construction activities to the hours of 8:00 a.m. to 6:00 p.m. on weekdays and between the hours of 9:00 a.m. and 4:00 p.m. on Saturdays. No construction is permitted on Sundays or holidays. Section 16.20.035 also states that at least one of the following conditions should be met; (1) construction noise limits of 85 dBA at a distance of 25 feet for any single piece of equipment and (2) noise level at any point outside of the property plane of the project site is limited to 85 dBA.

Construction activities generate considerable amounts of noise, especially during earth-moving activities when heavy equipment is used. The hauling of excavated materials and construction materials would generate truck trips on local roadways, as well. For the proposed development,

pile driving is not anticipated. The typical range of maximum instantaneous noise levels for the proposed project would be 70 to 90 dBA L_{max} at a distance of 50 feet (see Table 5) from the equipment.

Table 6 shows the hourly average noise level ranges, by construction phase, typical for various types of projects. Hourly average noise levels generated by construction are about 72 to 88 dBA L_{eq} for residential buildings, measured at a distance of 50 feet from the center of a busy construction site. Construction-generated noise levels drop off at a rate of about 6 dBA per doubling of the distance between the source and receptor. Shielding by buildings or terrain often results in lower construction noise levels at distant receptors.

Equipment expected to be used in each construction stage are summarized in Table 7, along with the quantity of each type of equipment and the reference noise level at 25 feet, assuming the operation of the two loudest pieces of construction equipment for each construction phase.

Federal Highway Administration's (FHWA's) Roadway Construction Noise Model (RCNM) was used to calculate the hourly average noise levels for each phase of construction, assuming the two loudest pieces of equipment would operate simultaneously, as recommended by the FTA for construction noise evaluations. This construction noise model includes representative sound levels for the most common types of construction equipment and the approximate usage factors of such equipment that were developed based on an extensive database of information gathered during the construction of the Central Artery/Tunnel Project in Boston, Massachusetts (CA/T Project or "Big Dig"). The usage factors represent the percentage of time that the equipment would be operating at full power.

To assess construction noise impacts at the receiving property lines of existing noise-sensitive receptors, the worst-case hourly average noise level, which is calculated by combining all pieces of equipment per phase, was propagated from the geometrical center of the project site to the nearest property lines of the surrounding land uses. These noise level estimates are shown in Table 8. Noise levels in Table 8 do not assume reductions due to intervening buildings or existing barriers.

TABLE 5 Construction Equipment 50-foot Noise Emission Limits

Equipment Category	L_{max} Level (dBA)[1,2]	Impact/Continuous
Arc Welder	73	Continuous
Auger Drill Rig	85	Continuous
Backhoe	80	Continuous
Bar Bender	80	Continuous
Boring Jack Power Unit	80	Continuous
Chain Saw	85	Continuous
Compressor[3]	70	Continuous
Compressor (other)	80	Continuous
Concrete Mixer	85	Continuous
Concrete Pump	82	Continuous
Concrete Saw	90	Continuous
Concrete Vibrator	80	Continuous
Crane	85	Continuous
Dozer	85	Continuous
Excavator	85	Continuous
Front End Loader	80	Continuous
Generator	82	Continuous
Generator (25 KVA or less)	70	Continuous
Gradall	85	Continuous
Grader	85	Continuous
Grinder Saw	85	Continuous
Horizontal Boring Hydro Jack	80	Continuous
Hydra Break Ram	90	Impact
Impact Pile Driver	105	Impact
Insitu Soil Sampling Rig	84	Continuous
Jackhammer	85	Impact
Mounted Impact Hammer (hoe ram)	90	Impact
Paver	85	Continuous
Pneumatic Tools	85	Continuous
Pumps	77	Continuous
Rock Drill	85	Continuous
Scraper	85	Continuous
Slurry Trenching Machine	82	Continuous
Soil Mix Drill Rig	80	Continuous
Street Sweeper	80	Continuous
Tractor	84	Continuous
Truck (dump, delivery)	84	Continuous
Vacuum Excavator Truck (vac-truck)	85	Continuous
Vibratory Compactor	80	Continuous
Vibratory Pile Driver	95	Continuous
All other equipment with engines larger than 5 HP	85	Continuous

Notes:

[1] Measured at 50 feet from the construction equipment, with a "slow" (1 sec.) time constant.

[2] Noise limits apply to total noise emitted from equipment and associated components operating at full power while engaged in its intended operation.

[3] Portable Air Compressor rated at 75 cfm or greater and that operates at greater than 50 psi.

TABLE 6 Typical Ranges of Construction Noise Levels at 50 feet, L_{eq} (dBA)

	Domestic Housing		Office Building, Hotel, Hospital, School, Public Works		Industrial Parking Garage, Religious Amusement & Recreations, Store, Service Station		Public Works Roads & Highways, Sewers, and Trenches	
	I	II	I	II	I	II	I	II
Ground Clearing	83	83	84	84	84	83	84	84
Excavation	88	75	89	79	89	71	88	78
Foundations	81	81	78	78	77	77	88	88
Erection	81	65	87	75	84	72	79	78
Finishing	88	72	89	75	89	74	84	84

I - All pertinent equipment present at site.
II - Minimum required equipment present at site.

Source: U.S.E.P.A., Legal Compilation on Noise, Vol. 1, p. 2-104, 1973.

TABLE 7 Estimated Construction Noise Levels for the Proposed Project at a Distance of 25 feet

Phase of Construction	Total Number of Workdays	Construction Equipment (Quantity)	Estimated Construction Noise Level at 25 feet, dBA L_{eq}
Demolition	20	Concrete/Industrial Saw (1)[a] Excavator (3) Rubber-Tired Dozer (2)[a]	90
Site Preparation	10	Rubber-Tired Dozer (3)[a] Tractor/Loader/Backhoe (4)[a]	88
Grading/Excavation	20	Excavator (1) Grader (1)[a] Rubber-Tired Dozer (1) Tractor/Loader/Backhoe (3) [a]	90
Trenching/Foundation	20	Tractor/Loader/Backhoe (1)[a] Excavator (1)[a]	88
Building – Exterior	230	Crane (1) Forklift (3) Generator Set (1) [a] Tractor/Loader/Backhoe (3)[a] Welder (1)	88
Building – Interior	20	Air Compressor (1)[a]	80
Paving	20	Paver (2)[a] Paving Equipment (2)[a] Roller (2)	89

[a] Denotes two loudest pieces of construction equipment per phase.

TABLE 8 Estimated Construction Noise Levels for the Proposed Project at the Property Lines of Receptors Surrounding the Project Site

Phase	Calculated Hourly Average L_{eq}, dBA	
	North Mobile Homes Residential (290 ft)	South Community Center (300 ft)
Demolition	71	71
Site Preparation	72	72
Grading/Excavation	72	72
Trenching	66	66
Building-Exterior	71	71
Building-Interior/ Architectural Coating	58	58
Paving	71	71

As shown in Table 7, construction noise levels would intermittently range from 74 to 84 dBA L_{eq} when activities occur 50 feet from nearby receptors. When focused near the center of the project buildings, construction noise levels would typically range from 58 to 72 dBA L_{eq} at the surrounding residential and commercial buildings (see Table 8).

Based on the construction noise levels expected at the nearby receptors from Tables 7 and 8, noise levels from individual pieces of equipment exceed the 85 dBA limit at 25 feet. However, construction noise levels at any point outside of the property plane do not exceed 85 dBA for all phases of construction.

While the Town's Code of Ordinances permits construction if at least one of the above conditions is met, temporary construction noise for the closest residences located to the north (mobile homes) is potentially significant. The following construction best management practices are recommended to reduce construction noise levels emanating from the site and minimize disruption and annoyance at existing noise-sensitive receptors in the project vicinity. The incorporation of construction best management practices would reduce temporary construction noise levels as much as possible.

Mitigation Measure 1a: Implement the following construction noise controls at all times:

- Ensure that construction activities are limited to the hours of 8:00 a.m. to 6:00 p.m. on weekdays and between the hours of 9:00 a.m. and 4:00 p.m. on Saturdays. No construction is permitted on Sundays or holidays.

- A temporary 8-foot noise barrier shall be constructed along the north property line of the project site to shield adjacent residential land uses from ground-level construction equipment and activities. The noise barrier shall be solid over the face and at the base of the barrier to provide a 5 dBA noise reduction.

- Equip all internal combustion engine-driven equipment with intake and exhaust mufflers that are in good condition and appropriate for the equipment.

- Unnecessary idling of internal combustion engines should be strictly prohibited.

- Locate stationary noise-generating equipment, such as air compressors or portable power generators, as far as possible from sensitive receptors as feasible. If they must be located near receptors, adequate muffling (with enclosures where feasible and appropriate) shall be used to reduce noise levels at the adjacent sensitive receptors. Any enclosure openings or venting shall face away from sensitive receptors.

- Construction staging areas shall be established at locations that will create the greatest distance between the construction-related noise sources and noise-sensitive receptors nearest the project site during all project construction.

- Locate material stockpiles, as well as maintenance/equipment staging and parking areas, as far as feasible from residential receptors.

- Control noise from construction workers' radios to a point where they are not audible at existing residences bordering the project site.

- Designate a "disturbance coordinator" who would be responsible for responding to any complaints about construction noise. The disturbance coordinator will determine the cause of the noise complaint (e.g., bad muffler, etc.) and will require that reasonable measures be implemented to correct the problem. Conspicuously post a telephone number for the disturbance coordinator at the construction site and include in it the notice sent to neighbors regarding the construction schedule.

The implementation of these measures will reduce construction noise levels below 85 dBA resulting in a less-than-significant impact.

Impact 1b: **Permanent Noise Level Increase/Exceed Applicable Standards.** The proposed project would not result in a substantial permanent noise level increase at receptors in the project vicinity. Operational noise levels generated by the proposed project would not exceed the City's Municipal Code thresholds. This is a **less-than-significant** impact.

A significant impact would occur if the permanent noise level increase due to project-generated traffic was 3 dBA L_{dn} or greater for future ambient noise levels exceeding 60 dBA L_{dn} or was 5 dBA L_{dn} or greater for future ambient noise levels at or below 60 dBA L_{dn}. Existing ambient measurements made in the project site vicinity indicate that existing and future ambient noise levels at the noise-sensitive receptors in the project site vicinity would result in noise levels over 60 dBA L_{dn}. Therefore, a significant impact would occur if project-generated traffic and mechanical equipment increased levels by 3 dBA L_{dn} or more.

Project Traffic Increase

According to the traffic study[4] prepared for this project, 66 peak hour trips would be expected during the AM peak hour and 79 peak hour trips would be expected during the PM peak hour as a result of the project on Oka Road. Comparing these additional trips to the existing peak hour traffic volumes along Oka Road, these peak hour trips would result in a less than 1 dBA L_{dn} noise level increase. This is a less-than-significant impact.

Mechanical Equipment

The project site is located in an orange zone on the Town of Los Gatos Noise Zone Map, which indicates an ambient noise level of 48 dBA between the hours of 10:00 p.m. and 6:00 a.m., 55 dBA between the hours of 6:00 a.m. and 1:00 p.m., and 59 dBA between the hours of 1:00 p.m. and 10:00 p.m. New operational noise sources, including mechanical equipment are limited to a noise level of 6 dBA or less above these specified ambient levels. Five decibels is subtracted from these levels on weekends and holidays; therefore, the most restrictive noise limit for the assessment, assuming operation of the on-site equipment at night and on weekends, would be 49 dBA between the hours of 10:00 p.m. and 6:00 a.m.

The site plan does not show air conditioning condenser units; however, these mechanical equipment units are typically proposed for this type of project. The location of these units is likely to be either the ground level along the exterior façades of the townhomes or on the roof of the units. Assuming worst-case conditions, two to three air conditioning condensers are assumed to be clustered along the end units of each building. These clusters would be approximately 55 feet from the closest noise-sensitive residential receptors along the north property line.

Residential air conditioning condenser units typically cycle on and off continuously throughout a 24-hour period. Thus, at any given time, multiple units could be operating simultaneously in a relatively small vicinity. Typical air conditioning condenser units for residential buildings of this size typically generate noise levels of 53 to 63 dBA at a distance of 3 feet. Assuming up to three units in a cluster would operate simultaneously at any given time, combined noise levels generated at each proposed building would be up to 68 dBA L_{eq} at 3 feet, and the combined day-night average noise level would be 74 dBA L_{dn} at 3 feet.

Along the north property line located about 55 feet away from the HVAC units, noise from mechanical equipment is expected to reach up to 49 dBA L_{eq}, and up to a day-night average noise level of 55 dBA L_{dn}. Future noise levels along the north property line range from 59 to 66 dBA L_{dn}. Therefore, noise from mechanical equipment would result in a 1 dBA L_{dn} or less increase at the nearest noise-sensitive receptors to the north. Additionally, noise from mechanical equipment would not exceed the most restrictive 49 dBA orange zone limit for on-site equipment at night or weekends. This is a less-than-significant impact.

[4] Oka Road Townhomes Draft Transportation Analysis dated Dec 3, 2024 prepared by Hexagon Transportation Consultants Inc.

Total Combined Project-Generated Noise

The operational noise levels produced by the proposed project combined (i.e., traffic, mechanical equipment,) would not result in a measurable noise level increase (i.e., 0 to 1 dBA L_{dn}) at all existing noise-sensitive receptors in the project vicinity. Therefore, the proposed project would not result in a substantial increase over ambient noise levels in the project vicinity.

Mitigation Measure 1b: None required.

Impact 2: Exposure to Excessive Groundborne Vibration. Construction of the project would potentially generate vibration levels exceeding the Caltrans threshold of 0.5 in/sec PPV at mobile homes adjoining the project site. This would be a potentially significant impact. The implementation of these mitigation measures would reduce a potential impact to a less-than-significant level.

The construction of the project may generate perceptible vibration when heavy equipment or impact tools (e.g. jackhammers, hoe rams) are used. Construction activities would include site preparation work, foundation work, and new building framing and finishing. Pile driving equipment, which can cause excessive vibration, is not expected to be required for the proposed project.

The California Department of Transportation (Caltrans) recommends a vibration limit of 0.5 in/sec PPV for new residential and modern commercial/industrial structures, which typically consist of buildings constructed since the 1990s. A vibration limit of 0.3 in/sec PPV is used for older residential structures, which would apply to most structures built since the 1940s. For historical buildings or some older buildings, a vibration limit of 0.25 in/sec PPV would apply. These vibration limits are conservative and designed to provide protection for existing buildings in California. Vibration levels exceeding these thresholds would be capable of cosmetically damaging adjacent buildings. Cosmetic damage (also known as threshold damage) is defined as hairline cracking in plaster, the opening of old cracks, the loosening of paint, or the dislodging of loose objects. Minor damage is defined as hairline cracking in masonry or the loosening of plaster. Major structural damage is defined as wide cracking or the shifting of foundation or bearing walls.

Each of the nearby receptor buildings surrounding the site are considered structures built to modern construction standards, and the 0.5 in/sec PPV threshold would apply to vibration generated by project construction. According to the City's website,[5] no historical buildings are located within 200 feet of the project site.

Table 11 presents typical vibration levels that could be expected from construction equipment at a distance of 25 feet. Project construction activities, such as drilling, the use of jackhammers, rock drills and other high-power or vibratory tools, and rolling stock equipment (tracked vehicles, compactors, etc.), may generate substantial vibration in the immediate vicinity. Drilling typically generates vibration levels of 0.09 in/sec PPV at a distance of 25 feet.

[5] https://www.losgatosca.gov/1999/Historic-Districts

Vibration levels would vary depending on soil conditions, construction methods, and equipment used. Table 11 also summarizes the distances to the 0.3 in/sec PPV threshold for older conventional buildings and to the 0.5 in/sec PPV threshold for newer buildings constructed to modern standards.

TABLE 11 Vibration Source Levels for Construction Equipment

Equipment		PPV at 25 ft. (in/sec)	Minimum Distance to Meet 0.5 in/sec PPV (feet)
Clam shovel drop		0.202	11
Hydromill (slurry wall)	in soil	0.008	<1
	in rock	0.017	2
Vibratory Roller		0.210	12
Hoe Ram		0.089	6
Large bulldozer		0.089	6
Caisson drilling		0.089	6
Loaded trucks		0.076	5
Jackhammer		0.035	4
Small bulldozer		0.003	<1

Source: Transit Noise and Vibration Impact Assessment Manual, United States Department of Transportation, Office of Planning and Environment, Federal Transit Administration, September 2018, as modified by Illingworth & Rodkin, Inc., January, 2025.

Vibration levels are highest close to the source and then attenuate with increasing distance at the rate $\left({}^{D_{ref}}/_{D}\right)^{1.1}$, where D is the distance from the source in feet and D_{ref} is the reference distance of 25 feet. While construction noise levels increase based on the cumulative equipment in use simultaneously, construction vibration levels would be dependent on the location of individual pieces of equipment. That is, equipment scattered throughout the site would not generate a collective vibration level, but a vibratory roller, for instance, operating near the project site boundary would generate the worst-case vibration levels for the receptor sharing that property line. Further, construction vibration impacts are assessed based on the potential for damage to buildings on receiving land uses, not at receptors at the nearest property lines.

Table 12 summarizes the vibration levels at the surrounding buildings in the project vicinity.

TABLE 12 Vibration Levels for Construction Equipment at Nearest Buildings Adjoining the Project Site

Equipment		PPV (in/sec) Estimated at Nearest Buildings Adjoining the Project Site	
		North Mobile Home Residences (5 ft)	South Community Center (90 ft)
Clam shovel drop		**1.186**	0.049
Hydromill (slurry wall)	in soil	0.047	0.002
	in rock	0.100	0.004
Vibratory Roller		**1.233**	0.051
Hoe Ram		**0.523**	0.022
Large bulldozer		**0.523**	0.022
Caisson drilling		**0.523**	0.022
Loaded trucks		0.446	0.019
Jackhammer		0.206	0.009
Small bulldozer		0.018	0.001

Source: Transit Noise and Vibration Impact Assessment Manual, Federal Transit Administration, Office of Planning and Environment, U.S. Department of Transportation, September 2018, as modified by Illingworth & Rodkin, Inc., January 2025.

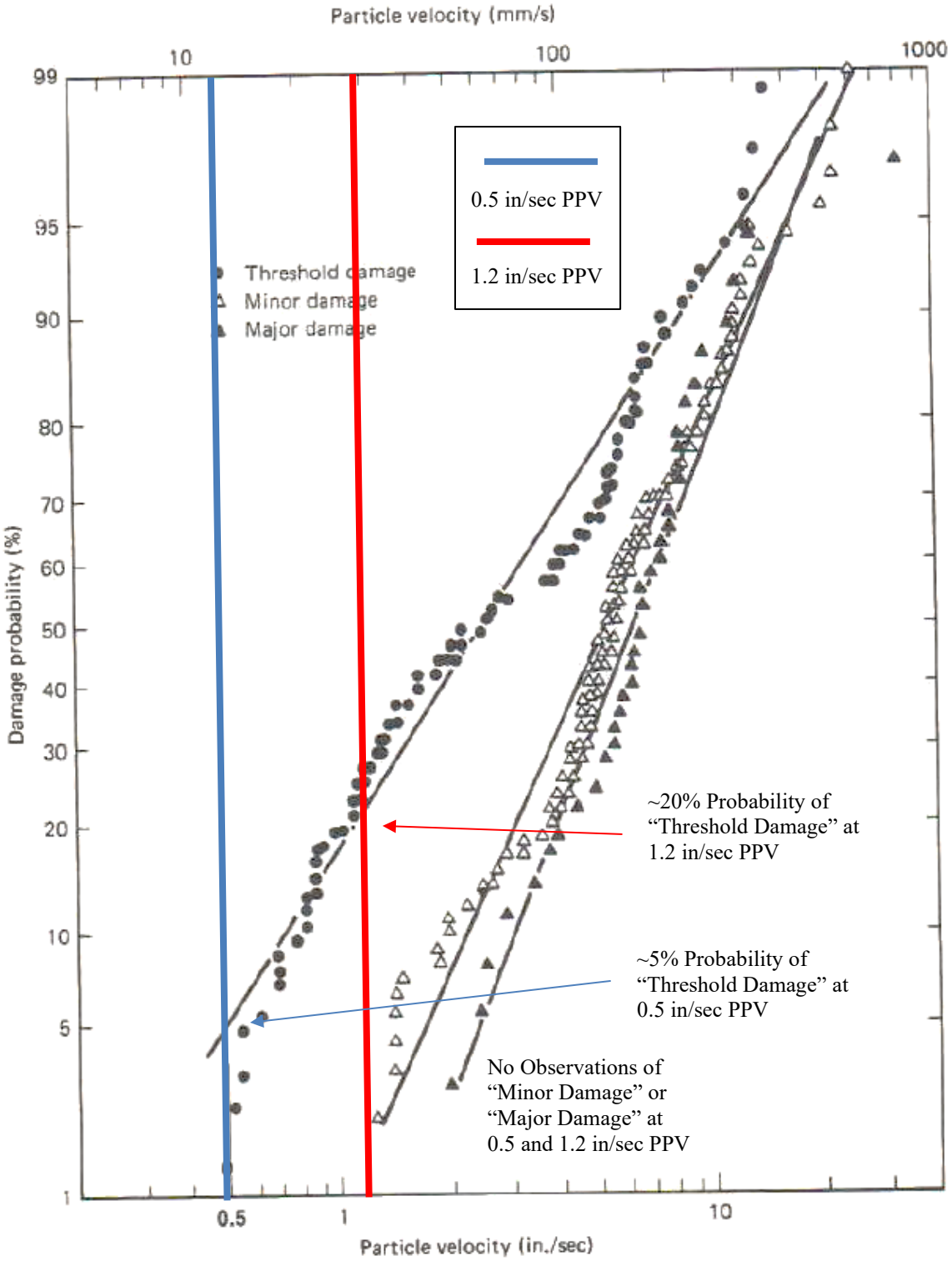
Project construction activities would potentially generate vibration levels up to 1.2 in/sec PPV at the nearest mobile home residential structure adjoining the site to the north. A study completed by the US Bureau of Mines analyzed the effects of blast-induced vibration on buildings in USBM RI 8507.[6] The findings of this study have been applied to buildings affected by construction-generated vibrations.[7] As reported in USBM RI 8507[6] and reproduced by Dowding,[7] Figure 2 presents the damage probability, in terms of "threshold damage" (described above as cosmetic damage), "minor damage," and "major damage," at varying vibration levels.

As shown in Figure 2, maximum vibration levels of 1.2 in/sec PPV or lower would result in about 20% chance of cosmetic damage. Maximum vibration levels of 0.5 in/sec PPV or lower would result in about 5% chance of cosmetic damage. No minor or major damage would be expected at the buildings immediately adjoining the project site.

Neither cosmetic, minor, or major damage would occur at buildings located 30 feet or more from the project site. At these locations, and in other surrounding areas where vibration would not be expected to cause cosmetic damage, vibration levels may still be perceptible. However, as with any type of construction, this would be anticipated and would not be considered significant, given the intermittent and short duration of the phases that have the highest potential of producing vibration (use of jackhammers and other high-power tools). By use of administrative controls, such as notifying neighbors of scheduled construction activities and scheduling construction activities with the highest potential to produce perceptible vibration during hours with the least potential to affect nearby businesses, perceptible vibration can be kept to a minimum.

[6] Siskind, D.E., M.S. Stagg, J.W. Kopp, and C.H. Dowding, Structure Response and Damage Produced by Ground Vibration form Surface Mine Blasting, RI 8507, Bureau of Mines Report of Investigations, U.S. Department of the Interior Bureau of Mines, Washington, D.C., 1980.
[7] Dowding, C.H., Construction Vibrations, Prentice Hall, Upper Saddle River, 1996.

FIGURE 2 Probability of Cracking and Fatigue from Repetitive Loading



Source: Dowding, C.H., Construction Vibrations, Prentice Hall, Upper Saddle River, 1996. as modified by Illingworth & Rodkin, Inc., January 2025.

In summary, the construction of the project would potentially generate vibration levels exceeding the Caltrans threshold of 0.5 in/sec PPV at mobile homes adjoining the project site. This would be a potentially significant impact.

Mitigation Measure 2:

The project applicant shall implement a Construction Vibration Plan to reduce vibration levels due to construction activities to at or below 0.5 in/sec PPV. All plan tasks shall be in accordance with industry-accepted standard methods. The construction vibration monitoring plan shall include, but not be limited to, the following measures:

- A list of all heavy construction equipment to be used for this project known to produce high vibration levels (e.g., dozers, graders, excavators, saws, trucks, and vibratory rollers) shall be submitted to the City by the contractor, as well as a list of smaller equipment (less than 18,000 pounds) to be used near the northern property lines.

- Smaller equipment (less than 18,000 pounds) shall be used near the property lines adjacent to the residential buildings to minimize vibration levels. For example, a smaller vibratory roller similar to a Caterpillar model CP433E vibratory compactor could be used when compacting materials within 30 feet of the adjacent conventional buildings. For all other equipment identified above, smaller equipment shall be used within 15 feet of the adjacent buildings. The smaller equipment intended to implement this requirement shall be individually identified among the list of equipment required under the above condition as the subset of equipment allowed for use at the property lines.

- Avoid dropping heavy equipment and using vibratory rollers within 30 feet of sensitive structures adjoining the project site. Use alternative methods for breaking up existing pavement, such as a pavement grinder, instead of dropping heavy objects, within 30 feet of adjacent buildings to the north.

- Select demolition methods that do not involve large impact tools within 15 feet of the shared property line with conventional buildings to the north. Portable jackhammers, saws, or grinders shall be used to minimize impacts to the ground.

- Designate a Disturbance Coordinator responsible for registering and investigating claims of excessive vibration. The contact information of such person shall be clearly posted on the construction site.

The implementation of these mitigation measures would reduce a potential impact to a less-than-significant level.

Impact 3: **Excessive Aircraft Noise.** The project site is located more than 5 miles from San José Mineta International Airport. The noise environment attributable to aircraft is considered compatible with the noise environment under the Santa Clara County ALUC noise compatibility policies. This is a **less-than-significant** impact

San José Mineta International Airport is a public-use airport located more than 5 miles northeast of the project site. According to the City's Airport Master Plan Environmental Impact Report,[8] the project site lies outside the 60 dBA CNEL/DNL contour line. Therefore, the proposed project would be compatible with the City's exterior noise standards for aircraft noise.

Assuming standard construction materials for aircraft noise below 60 dBA DNL, the future interior noise levels resulting from aircraft would be below 45 dBA DNL. Therefore, future interior noise at the proposed building would be compatible with aircraft noise. This would be a less-than-significant impact.

Mitigation Measure 3: **None required.**

[8] David J. Powers & Associates, Inc., Integrated Final Environmental Impact Report, Amendment to Norman Y. Mineta San Jose International Airport Master Plan, April 2020.

Cumulative Impacts

Cumulative noise impacts would include either cumulative traffic noise increases under future conditions or temporary construction noise from cumulative construction projects.

A significant cumulative traffic noise increase would occur if two criteria are met: 1) if the cumulative traffic noise level increase was 3 dBA L_{dn} or greater for future levels exceeding 60 dBA L_{dn} or was 5 dBA L_{dn} or greater for future levels at or below 60 dBA L_{dn}; and 2) if the project would make a "cumulatively considerable" contribution to the overall traffic noise increase. A "cumulatively considerable" contribution would be defined as an increase of 1 dBA L_{dn} or more attributable solely to the proposed project.

The traffic study[9] included peak hour turning movements for the cumulative (no project) and cumulative plus project scenarios along Oka Road. The peak AM and PM trips for the cumulative no project condition show no increase compared to the existing traffic volumes along Oka Road. Additionally, a comparison between the cumulative plus project peak hour traffic volumes and the existing traffic volumes show an increase of 66 AM peak hour trips and 79 PM peak hour trips. This results in a less than 1 dBA L_{dn} increase of cumulative plus project conditions compared to the cumulative no project condition. Cumulative traffic noise increase has a less-than-significant impact.

From the City's website,[10] no planned or approved projects would be located within 1,000 feet of the project site. No cumulative impacts are expected from construction.

[9] Oka Road Townhomes Draft Transportation Analysis dated Dec 3, 2024 prepared by Hexagon Transportation Consultants Inc.
[10] https://www.losgatosca.gov/2216/Pending-Planning-Projects

APPENDIX A

FIGURE A1 Daily Trend in Noise Levels for LT-1, Tuesday, December 17, 2024

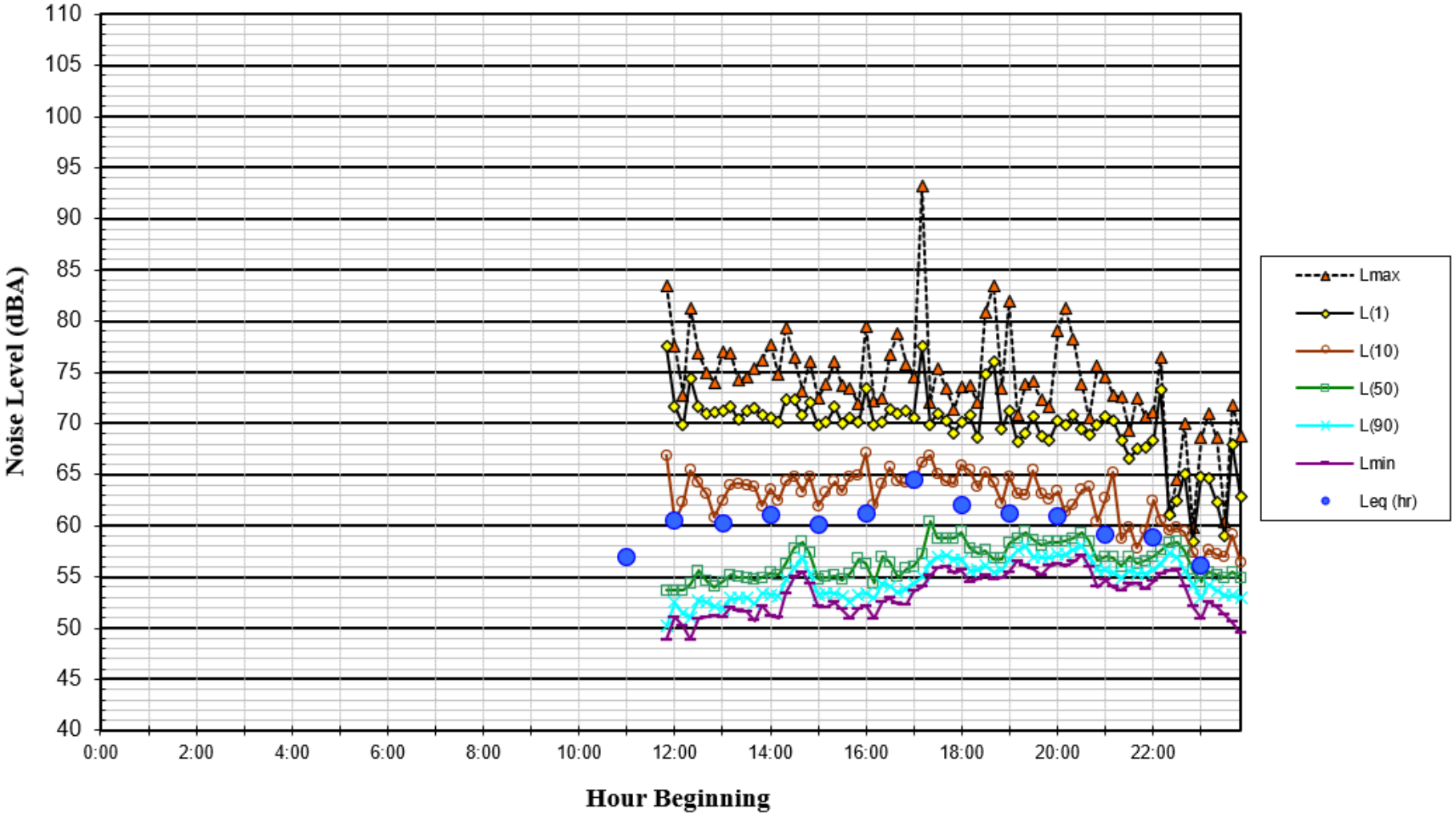


FIGURE A2 Daily Trend in Noise Levels for LT-1, Wednesday, December 18, 2024

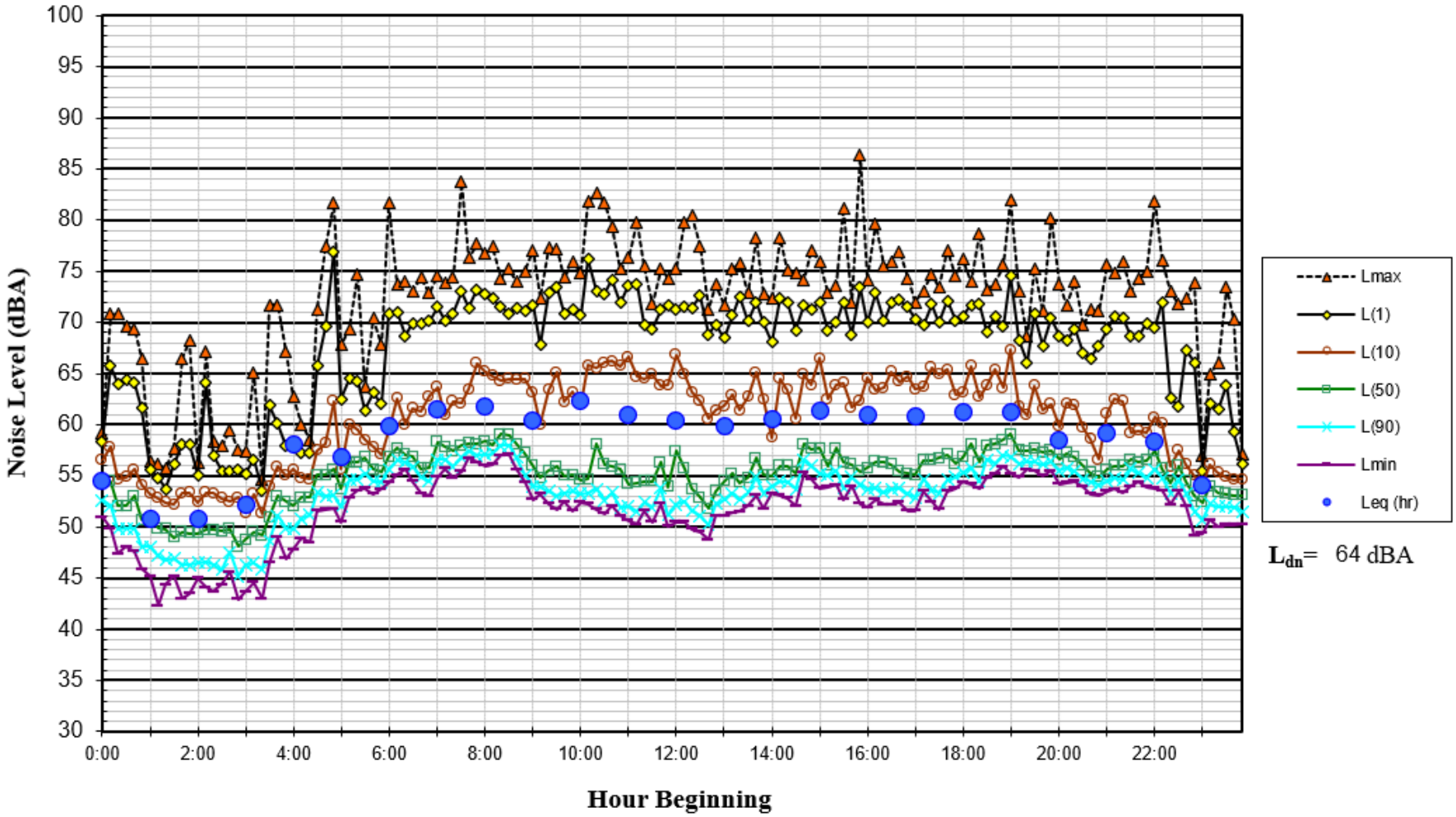


FIGURE A3 Daily Trend in Noise Levels for LT-1, Thursday, December 19, 2024

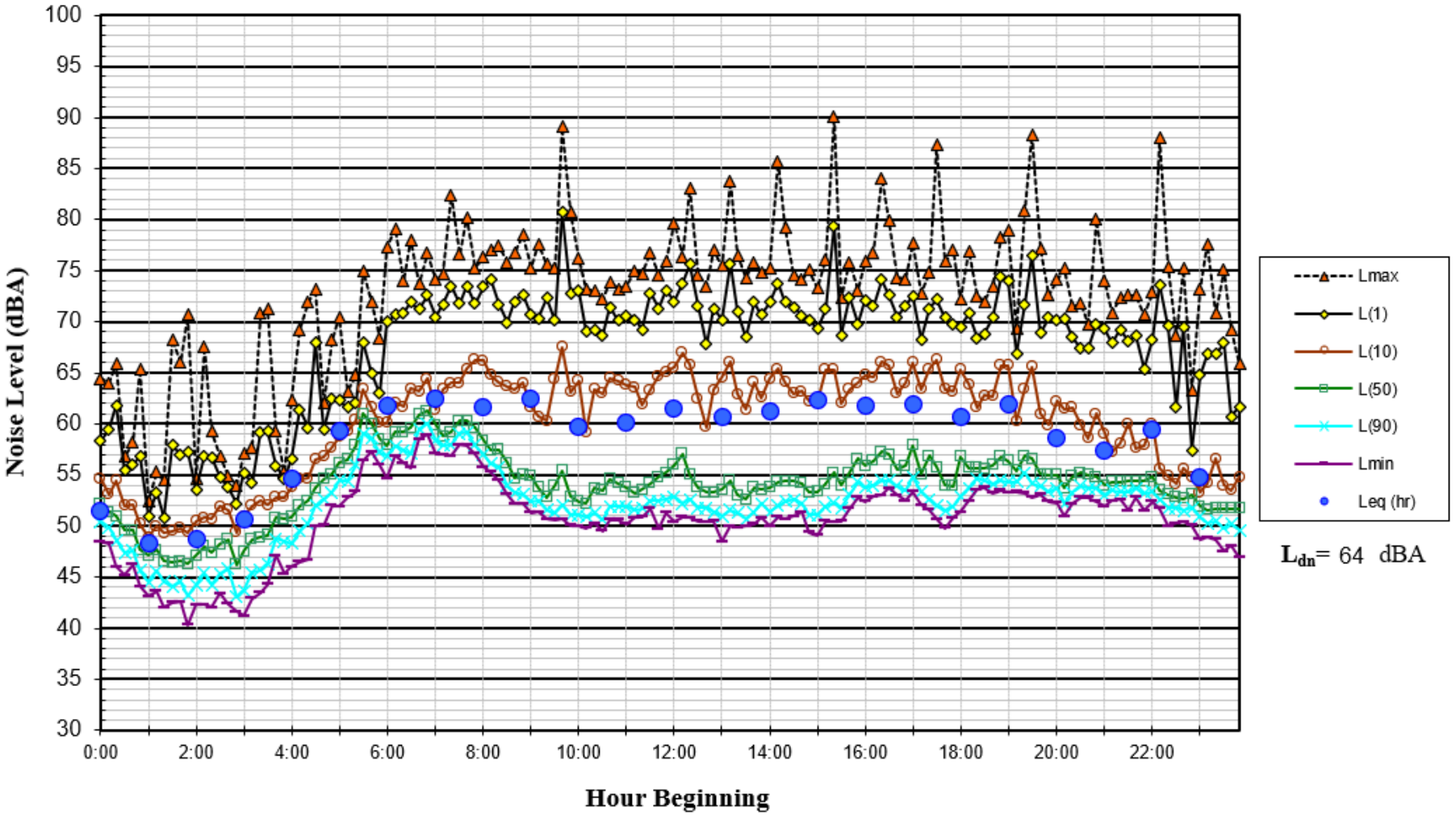


FIGURE A4 Daily Trend in Noise Levels for LT-1, Friday, December 20, 2024

