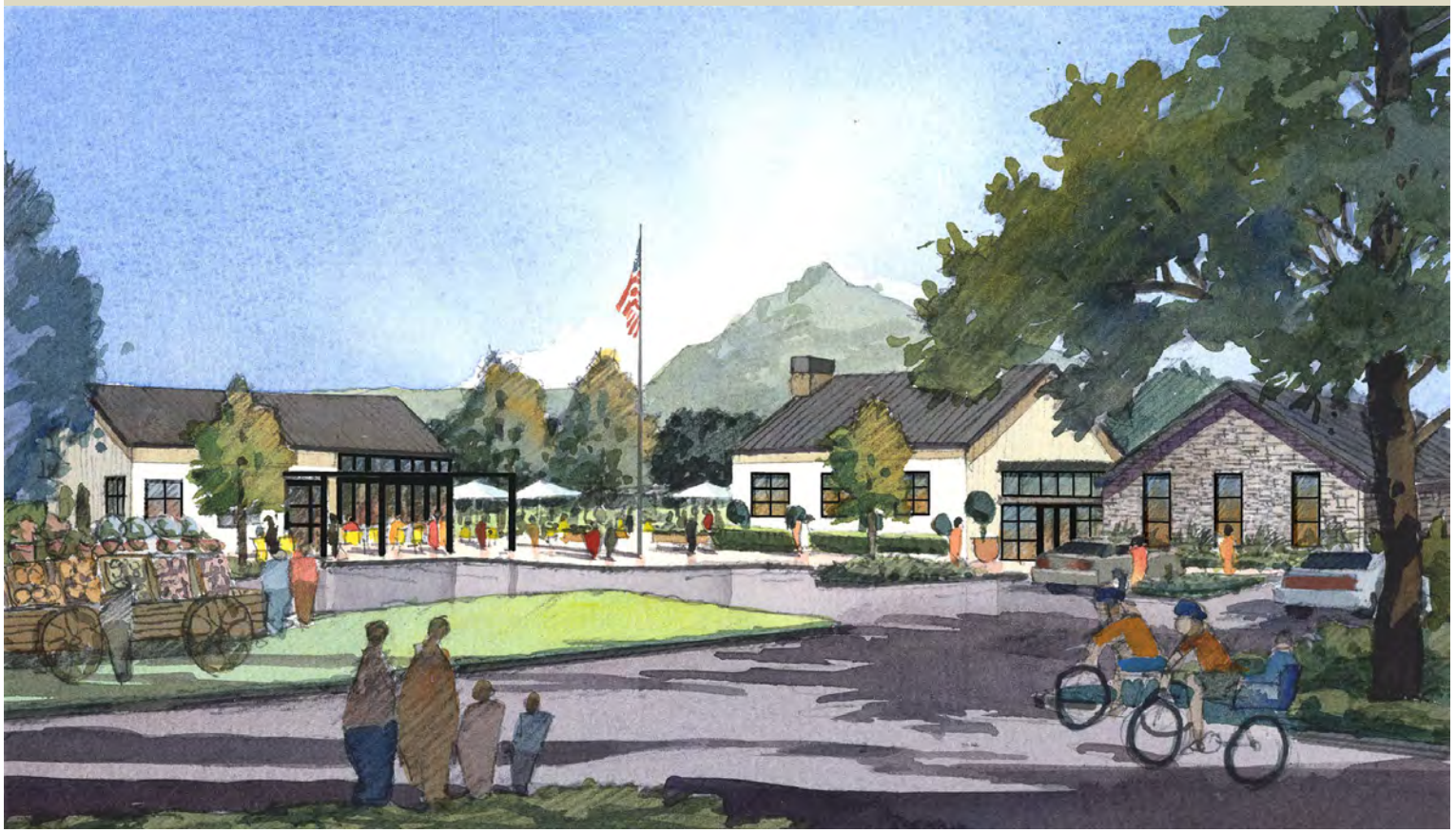


# Valley Gardens

## Draft Environmental Impact Report

SCH # 20210890394

**August 2024**



Kimley»Horn

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# 1 Executive Summary

This Draft Environmental Impact Report (EIR) has been prepared by the City of Scotts Valley for the Valley Gardens project (the project or proposed project). The City of Scotts Valley is the "public agency which has the principal responsibility for carrying out or approving the project," and as such is the "Lead Agency" under the California Environmental Quality Act (CEQA), as defined in CEQA Guidelines Section 15367. CEQA requires the Lead Agency to consider the information contained in the EIR prior to taking any discretionary action. This EIR is intended to serve as an informational document to be considered by the City and other permitting agencies during deliberations on the project.

This Executive Summary summarizes the requirements of the CEQA Statute and Guidelines, provides an overview of the project and alternatives, outlines the potential impacts of the project and the recommended mitigation measures, and discloses areas of controversy and issues to be resolved.

## 1.1 Project and Decision Overview

### 1.1.1 Project Location

As shown in Figure 1-1: Project Location, the approximately 30-acre site is located at 263 Mount Herman Road (APNs 021-011-34, 021-221-02, 021-231-04, 021-231-07 and 021-231-08) and 475 Lockewood Lane (APN 021-231-02) in Scotts Valley, California. The project site was formerly the Valley Gardens Golf Course.

### 1.1.2 Project Description

As shown in Figure 3-1: Illustrative Site Plan, the project is comprised of 196 residential dwelling units. This includes 62 two-story sing-family dwellings, 80 attached and detached two, to three story single-family dwellings. 54 multi-family apartments are proposed in two buildings (18 units and 36 units, respectively) on the northeastern corner of the project site.

The project also includes up to three retail buildings near Mt. Hermon Road totaling approximately 8,350 square feet of commercial building space and up to 3,000 square feet of associated outdoor dining areas. The project also includes 4.99 acres of parks, open space, common areas and public trails.

Primary access to the site is from Mount Herman Road and Lockewood Lane via a new local road (Springvale Drive), with parking on one side in some areas. Access to the commercial uses are from Springvale Drive. Internal access to the residential units are from secondary local roads and a series of cul-de-sacs and alleys. A separated multi-use pedestrian/bicycle trail will be constructed, generally adjacent to Springvale Drive.

Incorporating a variety of unit sizes and floor plans, the architecture of the project will reflect a "farmhouse" theme incorporating sloped roof and stucco and wood siding, with wood accents such as horizontal siding, board and batten, and wood posts and railings. The commercial

component of the project will have a similar architectural theme complimenting the residential designs.

In addition to certification of a Final EIR, the project requires the following City approvals:

- **General Plan Amendment** to change the boundaries of the existing Open Space (OS) and Commercial Service (C-S) land use designations and create three new land use designations: 1) Residential - Medium High (R-MH) and 2) Residential – Very-High (R-VH), and 3) Public / Quasi Public (P).
- **Re-Zone** to change the boundaries of the existing Open Space (OS) and Commercial Service (C-S) designations and add three new designations: 1) R-M-6 Medium High Residential, 2) R-VH Very-High Residential, and 3) P Public / Quasi Public.
- **Planned Development** in conjunction with the Zone Change request to allow for the approval of a general development plan incorporating alternative development standards.
- **Vesting Tentative Tract Map** for the subdivision of land for residential, commercial and common areas.
- **Development Agreement** to address community entitlements, affordable housing, parks and recreation facilities, etc.
- **Use Permits**.
- **Design Review** to evaluate the site design and architecture.
- **Planned Sign Program** to evaluate the proposed signs.

### 1.1.3 CEQA Evaluation Process

This environmental impact report (EIR) has been prepared to evaluate environmental impacts that may result from implementation of the project. The California Environmental Quality Act (CEQA) requires the Lead Agency with discretionary authority over the project to consider the information contained in the EIR prior to taking any discretionary action. This EIR provides information to the Lead Agency and other public agencies, the public, and decision makers regarding the environmental impacts from the project. The purpose of the public review of the EIR is to evaluate the adequacy of the environmental analysis in terms of compliance with CEQA.

The City has the authority to take discretionary actions relating to development of the project and may conditionally approve or deny the project applications. This EIR evaluates and mitigates (where necessary) the impacts associated with the project. The EIR also discloses growth-inducing impacts; impacts found not to be significant; and significant cumulative impacts of past, present, and reasonably anticipated future projects.

### 1.1.4 Project Applicant Objectives

The applicant has identified the following key project objectives:

1. Provide a balanced mix of residential and commercial uses that integrate into the existing urban setting.
2. Create a high-quality development that is visually and aesthetically compatible with adjacent land uses.
3. Expand and improve the City's housing supply in support of the City's Regional Needs Housing Allocation (RHNA) as described in the City's General Plan Housing Element.
4. Provide affordable and market-rate housing consistent with the City of Scotts Valley General Plan Housing Element goals and policies.
5. Provide a mix of residential and commercial uses that achieves a financially feasible project.
6. Locate commercial and residential uses where such uses can take advantage of existing infrastructure and utilities.
7. Provide and improve pedestrian connections within the project site and adjacent arterial streets to facilitate pedestrian activity between neighborhoods and within the development.

## 1.2 Summary of Impacts and Mitigation Measures

This section summarizes the impacts of the project, which are presented in detail in this EIR. The primary purpose of an EIR is to identify any significant effects of a project, as proposed. Knowledge of the significant impacts from the project guides the identification of mitigation measures and of alternatives that would reduce these impacts.

There are no significant impacts that cannot be mitigated to a less than significant level. Table ES-1: Summary of Significant Impacts of the Project provides a summary of the impacts of the project. The mitigation measures associated with each impact are to be implemented by the project applicant to reduce the environmental impacts to a less than significant level, where possible.

**Table ES-1: Summary of Significant Impacts of the Project**

| Impact | Impact Significance | Mitigation |
|---|---|---|
| **Aesthetics** | | |
| Impact AES-1: Substantially alter the visual character of the project site and surrounding area. | Less than Significant | None required |
| Impact AES-2: Introduce new light and glare to the project site and project area. | Less than Significant | None required |
| Impact AES-3: Contribute to cumulatively considerable aesthetic impacts. | Less than Significant | None required |

| Impact | Impact Significance | Mitigation |
|---|---|---|
| **Air Quality** | | |
| Impact AQ-1: Conflict with implementation of MBARD Air Quality Plan. | Less than Significant | None required. |
| Impact AQ-2: Future construction activities would generate dust and exhaust emissions of criteria pollutants and toxic air contaminants. | Less than Significant with Mitigation | MM AQ-2.1: Reduce Fugitive Dust |
| Impact AQ-3: Future long-term operation would generate dust and exhaust emissions of criteria pollutants. | Less than Significant | None required. |
| Impact AQ-4: Increase carbon monoxide concentrations above State and federal standards. | Less than Significant | None required. |
| Impact AQ-5: Increase exposure to TACs. | Less than Significant | None required. |
| Impact AQ-6: Contribute to cumulatively considerable air quality impacts. | Less than Significant with Mitigation | MM AQ-2.1: Reduce Fugitive Dust |
| **Biological Resources** | | |
| Impact BIO-1: Cause a direct or indirect adverse effect on special-status species. | Less than Significant with Mitigation | MM BIO-1.1: Incidental Take Permit for Mt. Hermon June Beetle<br>MM BIO-1.2: Focused Surveys and Relocation Plan for Roosting Bats<br>MM BIO-1.3: Focused Surveys and Relocation Plan for Dusky-Footed Woodrats<br>MM BIO-1.4: Focused Surveys and Relocation Plan for Monarch Butterfly |
| Impact BIO-2: Cause a direct or indirect adverse effect on native trees. | Less than Significant | None. |
| Impact BIO-3: Contribute to cumulatively considerable effects on biological resources. | Less than Significant with Mitigation | MM BIO-1.1: Incidental Take Permit for Mt. Hermon June Beetle<br>MM BIO-1.2: Focused Surveys and Relocation Plan for Roosting Bats<br>MM BIO-1.3: Focused Surveys and Relocation Plan for Dusky-Footed Woodrats<br>MM BIO-1.4: Focused Surveys and Relocation Plan for Monarch Butterfly |

| Impact | Impact Significance | Mitigation |
|---|---|---|
| **Cultural Resources** | | |
| Impact CR-1: Cause a substantial adverse change to a known archeological resource. | Less than Significant with Mitigation | MM CR-1.1: Historic or Archaeological Discovery During Construction |
| Impact CR-2: Directly impact a paleontological resource or unique geologic feature. | Less than Significant with Mitigation | MM CR-2.1: Paleontological Resource Monitoring |
| Impact CR-3: Inadvertently disturb human remains. | Less than significant | None required |
| Impact CR-4: Contribute to cumulatively considerable effects on cultural resources. | Less than significant | MM CR-1.1: Historic or Archaeological Discovery During Construction |
| **Geology & Soils** | | |
| Impact GEO-1: Directly or indirectly cause expose people or structures to potential substantial adverse effects, including the risk of loss, or injury, or death involving:<br>i) Rupture of a known earthquake fault<br>ii) Landslides<br>iii) Strong seismic ground shaking | Less than Significant | None required. |
| Impact GEO-2: Result in substantial soil erosion or the loss of topsoil. | Less than Significant | None required. |
| Impact GEO-3: 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. | Less than Significant with Mitigation | MM GEO 3.1: Implement geotechnical report recommendations |
| Impact GEO-4: Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property | Less than Significant | None required. |
| Impact GEO-5: Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature. | Less than Significant with Mitigation | MM CR-2.1: Paleontological Resource Monitoring |

| Impact | Impact Significance | Mitigation |
|---|---|---|
| Impact GEO-6: Contribute to cumulatively considerable effects on geology and soils. | Less than Significant | None required. |
| **Greenhouse Gas Emissions** | | |
| Impact GHG-1: Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment. | Less than Significant | None required |
| Impact GHG-2: Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases. | Less than Significant | None required |
| **Hazards & Hazardous Materials** | | |
| Impact HAZ-1: Exposure to known and previously unknown hazardous contaminants. | Less than Significant | None required |
| Impact HAZ-2: Exposure to hazardous substances in building structures which could cause a significant health hazard. | Less than Significant | None required |
| Impact HAZ-3: Construction or operational use, transport or creation of hazardous materials. | Less than Significant | None required |
| Impact HAZ-4: Contribute to cumulatively considerable effects on hazards and hazardous materials. | Less than Significant | None required |
| **Hydrology & Water Quality** | | |
| Impact HYD-1: Contribute to the depletion of local groundwater supplies or interfere with groundwater recharge. | Less than Significant | None required |
| Impact HYD-2: Increase stormwater runoff due to the increase in impervious surfaces. | Less than Significant | None required |
| Impact HYD-3: Substantially alter drainage patterns on- or off-site that would result in the storm water transport of pollutants, bacteria, salts, and sediment into downstream facilities. | Less than Significant | None required |
| Impact HYD-4: Conflict with or obstruct implementation of a water | Less than Significant | None required |

| Impact | Impact Significance | Mitigation |
|---|---|---|
| quality control plan or sustainable groundwater management plan. | | |
| Impact HYD-5: Contribute to cumulatively considerable effects on hydrology and water quality. | Less than Significant | None required |
| **Land Use & Planning** | | |
| Impact LU-1: Substantially conflict with an applicable land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect | Less than significant | None required |
| Impact LU-2: Contribute to cumulatively considerable land use impacts | Less than significant | None required |
| **Noise & Vibration** | | |
| Impact N-1: Cause a temporary or periodic increase in ambient noise levels during construction that would substantially disturb sensitive receptors. | Less than Significant with Mitigation | MM N-1.1: Construction Noise Reduction |
| Impact N-2: Temporarily generate excessive groundborne vibration or groundborne noise. | Less than Significant | None required |
| Impact N-3: Result in a substantial permanent increase in ambient noise levels | Less than Significant | None required |
| Impact N-4: Contribute to cumulatively considerable noise impacts. | Less than Significant with Mitigation | MM N-1.1: Construction Noise Reduction |
| **Public Services, Utilities & Service Systems** | | |
| Impact PSU-1: Introduce a new service population requiring the construction of new or altered police or fire facilities. | Less than Significant | None required |
| Impact PSU-2: Require construction of new or expanded educational facilities. | Less than Significant | None required |
| Impact PSU-3: Require construction of new or expended park facilities. | Less than Significant | None required |
| Impact PSU-4: Require new or expanded water treatment facilities. | Less than Significant | None required |

| Impact | Impact Significance | Mitigation |
|---|---|---|
| Impact PSU-5: Require the construction or expansion of new wastewater treatment facilities. | Potentially Significant | Mitigation Measure PSU-5.1 Wastewater Capacity Study |
| Impact PSU-6: Require the construction or expansion of stormwater drainage facilities. | Less than Significant | None required |
| Impact PSU-7: Require the construction or expansion of electric power, natural gas, or telecommunications. | Less than Significant | None required |
| Impact PSU-8: Generate solid waste that would exceed the capacity of area landfills. | Less than Significant | None required |
| Impact PSU-9: Contribute to cumulatively considerable public services, utilities and service system impacts. | Less than Significant | None required |
| **Transportation** | | |
| Impact TR-1: Exceed VMT Thresholds | Less than Significant | None required |
| Impact TR-2: Substantially increase hazards due to a design feature or incompatible use. | Less than Significant | None required |

### 1.2.1 Cumulative Impacts

Under the CEQA Guidelines, "a cumulative impact consists of an impact which is created as a result of the combination of the project evaluated in the environmental impact report ("EIR") together with other projects causing related impacts." (14 Cal Code Regs §15130(a)(1)). This EIR uses a "list of past, present, and probable future projects producing related or cumulative impacts." (14 Cal Code Regs §15130(b)(1)(A)). Reasonably foreseeable projects that could contribute to the cumulative effects scenario are listed in the Cumulative Impacts chapter of this EIR.

The cumulative analysis concludes that there would be no cumulative impacts of the project, when combined with impacts from past, present, and reasonable future projects.

### 1.2.2 Growth-Inducing Effects

Section 15126.2(d) of the CEQA Guidelines provides the following guidance regarding growth-inducing impacts: a project is identified as growth inducing if it "could foster economic or population growth, or the construction of additional housing, either directly or indirectly, in the surrounding environment." Potential growth inducing components of the project would relate

to labor requirements for construction, as well as conversion of land from industrial to residential uses. Employment would not induce significant growth in the area.

### 1.2.3 Significant Irreversible Commitment of Resources

Section 15126.2(c) of the CEQA Guidelines defines an irreversible impact as an impact that uses nonrenewable resources during the initial and continued phases of the project. Irreversible impacts can also result from permanent loss of habitat, damage caused by environmental accidents associated with project construction, or operational resource use.

Build-out of the project would commit nonrenewable resources during project construction and ongoing utility services during project operations. During project operations, oil, gas, and other nonrenewable resources would be consumed. Therefore, an irreversible commitment of nonrenewable resources would occur as a result of long-term project operations. Compliance with all applicable building codes, policies and goals, and the mitigation measures identified in this EIR would ensure that all natural resources are conserved to the maximum extent possible.

## 1.3 Areas of Controversy

Pursuant to CEQA Guidelines Section 15132(b)(2), areas of controversy and issues to be resolved that are known to the City or were raised during the scoping process for the EIR include:

- Potentially significant impacts to air quality from construction.
- Potentially significant impacts to biological resources including:
    - Potential for "take" of special-status species including the federally endangered Mount Hermon June Beetle (*Polyphylla barbata*);
    - Potential impacts to rooster bats, the San Francisco Dusky-footed Woodrats, and Monarch Butterfly;
    - Loss or modification of breeding, nesting, dispersal and foraging habitat, including vegetation removal and alternation of soils;
    - Permanent and temporary habitat disturbances associated with ground disturbances, noise, lighting, reflection, air pollution, traffic or human presence; and,
    - Obstruction of movement corridors or access to water sources and other core habitat features.
- Potentially significant impacts to known cultural resource sites and paleontological resources.
- Compliance with AB 52 consultation for tribal cultural resources.
- Potentially significant impacts from off-site hazards associated with the Scotts Valley Dry Cleaners.
- Potentially significant impacts from noise to adjacent sensitive receptors (residential)
- Increased traffic, particularly on Lockewood Lane and Estrella Drive.

- Potential impacts to adjacent residential properties (e.g., aesthetics and noise)

## 1.4 Issues to be Resolved

Section 15123(b)(3) of the CEQA Guidelines requires the summary section of an EIR to identify any "issues to be resolved including the choice among alternatives and how to mitigate significant effects."

The following major issues will be resolved by the City of Scotts Valley in its decision process:

- Determine whether the EIR adequately describes the environmental impacts of the project;
- Choose among alternatives;
- Determine whether the recommended mitigation measures should be adopted or modified; and
- Determine whether additional mitigation measures need to be applied to the project.

## 1.5 Summary of Alternatives Analysis

Section 15126.6 of the CEQA Guidelines states that an EIR must address “a range of reasonable alternatives to the project, which would feasibly attain most of the basic objectives of the project but would avoid or substantially lessen any of the significant effects of the project and evaluate the comparative merits of the alternatives.”

Based on the project objectives and impact analysis, several alternatives were considered as summarized below and discussed in detail in the Alternatives chapter of this EIR.

### 1.5.1 Alternatives Eliminated from Further Consideration

No alternatives were identified that were eliminated from further consideration.

### 1.5.2 Alternatives Considered

Alternatives that would avoid or substantially lessen any of the significant effects of the project and that would feasibly attain most of the basic project objectives are discussed below. Each alternative is discussed with respect to its relationship to the project’s objectives. Each alternative, if implemented, would be required to comply with all of the applicant-proposed measures and the mitigation measures described for the project to ensure that the alternative impact conclusions presented below would be achieved.

#### No Project Alternative

Consideration of the No Project Alternative is required by Section 15126.6(e) of the CEQA Guidelines. The analysis of the No Project Alternative must discuss the existing conditions at the time the Notice of Preparation was published, as well as: “what would be reasonably expected

to occur in the foreseeable future if the project were not approved, based on current plans and consistent with available infrastructure and community services" [CEQA Guidelines Section 15126.6 (e)(2)]. The requirements also specify as the proposal of some other project, this 'no project' consequence should be discussed" [CEQA Guidelines Section 15126.6 (e)(3)(B)].

Under the No Project Alternative, construction and operation of project would not occur. The baseline environmental conditions for the No Project Alternative are the same as for the project. The baseline conditions would continue to occur into the future, undisturbed, in the absence of project-related construction activities, unless other development occurred on the project site.

The objectives of the project would remain unfulfilled under the No Project Alternative.

### Alternative A: Decreased Residential Development

#### Description

This alternative was previously proposed by the project applicant. As shown in Figure 17-1: Alterative A Site Plan, this alternative would be comprised of 115 residential dwelling units. This includes 91 one- and two-story single-family units and 24 duplex units. Additionally, 15 accessory dwelling units would be constructed over detached garages. There would be no muti-family residential associated with this alternative.

This alternative would include up to five retail buildings near Mt. Hermon Road totaling approximately 8,500 square feet of building space and up to 1,500 square feet of associated outdoor dining areas.

#### Consistency with Project Objectives

This alternative would meet some of the project objectives. However, it would only partially meet the objectives to provide a sufficient amount of housing to help meet the City's Regional Needs Housing Allocation (RNHA) and provide affordable and market-rate housing.

#### Comparative Analysis of Environmental Impacts

Construction and most operational impacts from this alternative would be similar to the project. No new or substantially greater or lesser impacts would occur as a result of this alternative.

Construction related impacts associated with air quality, greenhouse gas emissions, and noise would not change significantly as compared to the project. Impacts to biological resources and geology would be similar to the project as the same amount of area would be disturbed and any construction will be required to adhere to the final geotechnical report and construction codes.

The project site is located at or below the City's VMT threshold and therefore is "screened out" from further CEQA analysis related to the proposed residential development. Because the commercial uses would be local serving, it would not cause a significant VMT impact.

While the number of residential units would decrease, the project site is located in an existing urban area with sufficient infrastructure and utilities. As such, there would be no appreciable change in public services, utilities, and service systems as compared to the project.

In conclusion, impacts associated with this alternative would be similar to the project and all impacts could be reduced to less than significant.

### 1.5.3 Comparison of Alternatives and Environmentally Superior Alternative

Table ES-2: Comparison of Significant Impacts: Project and Alternatives, shows the significant impacts of the project. For each significant impact identified, the table provides a comparison of the relative impact under the No Project Alternative and Alternative A.

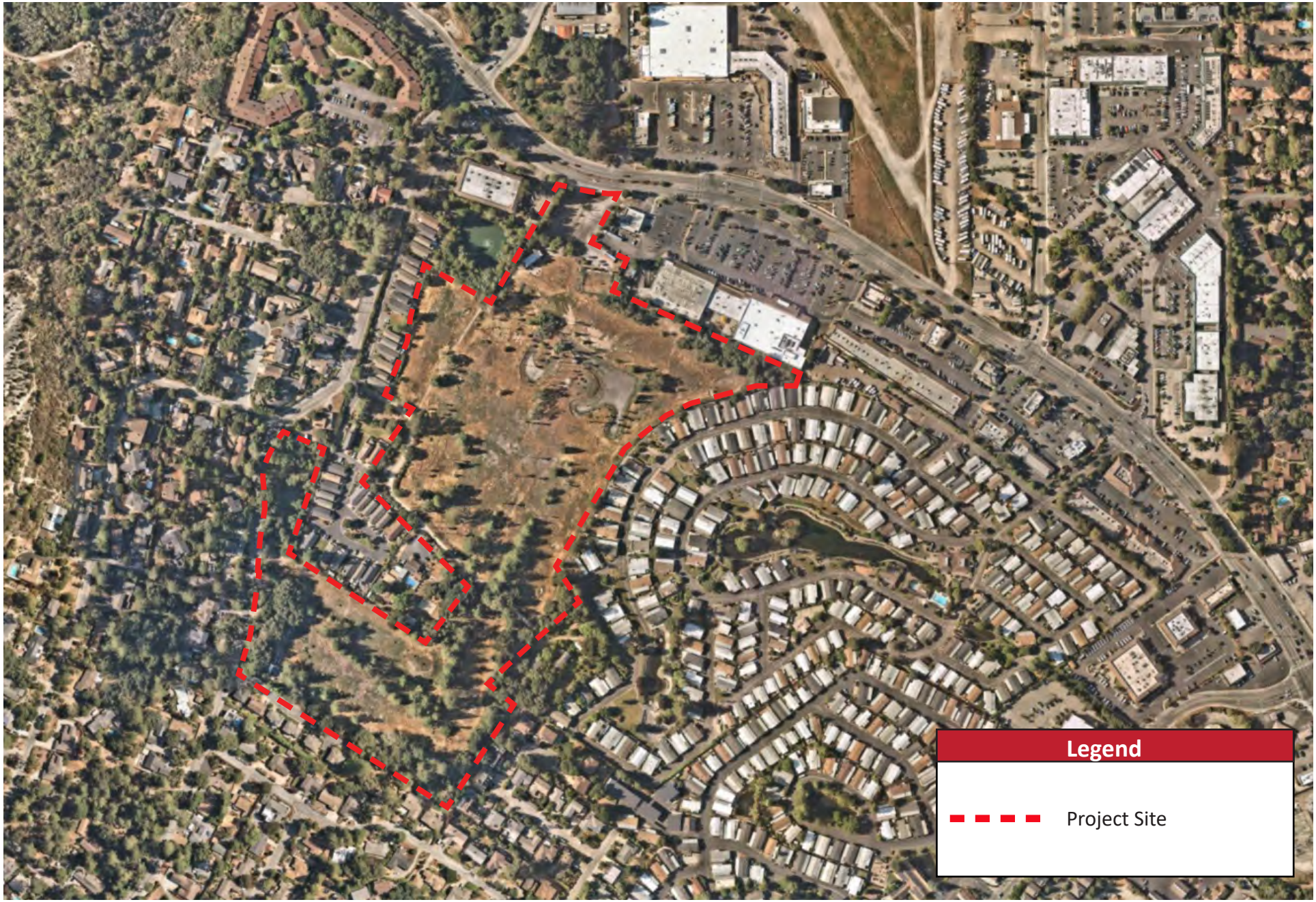
**Table ES-2: Comparison of Significant Impacts: Project and Alternatives**

| Impact | Project | No Project Alternative | Alternative A: Decreased Residential Development |
|---|---|---|---|
| Impact AQ-2: Future construction activities would generate dust and exhaust emissions of criteria pollutants and toxic air contaminants | LTSM | NI | LTSM ⇩ |
| Impact AQ-6: Contribute to cumulatively considerable air quality impacts. | LTSM | NI | LTSM ⇩ |
| Impact BIO-1: Cause a direct or indirect adverse effect on special-status invertebrate species. | LTSM | NI | LTSM ⇩ |
| Impact BIO-2: Cause a direct or indirect adverse effect on native trees and associated nesting bird sites. | LTSM | NI | LTSM |
| Impact BIO-3: Contribute to cumulatively considerable effects on biological resources. | LTSM | NI | LTSM |
| Impact GEO-3: Be located on a geologic unit or soil that is unstable, or that would become unstable as | LTSM | NI | LTSM |

| Impact | Project | No Project Alternative | Alternative A: Decreased Residential Development |
|---|---|---|---|
| a Result of the project, and potentially result in on-or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse. | | | |
| Impact GEO-4: Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property | LTSM | NI | LTSM |
| Impact N-1: Cause a temporary or periodic increase in ambient noise levels during construction that would substantially disturb sensitive receptors. | LTSM | NI | LTSM |
| Impact N-4: Contribute to cumulatively considerable noise impacts. | LTSM | NI | LTSM ⇩ |
| Impact PSU-5: Require the construction or expansion of new wastewater treatment facilities. | LTSM | NI | LTSM ⇩ |
| Impact TR-2: Substantially increase hazards due to a design feature or incompatible use. | LTSM | NI | LTSM |

LTS = Less than Significant
LTSM = Less than Significant with Identified Mitigation Measures
NI = No Impact
SI = Significant Impact
SU = Significant and Unavoidable Impact with Identified Mitigation Measures
⇧ = Impact of Greater Severity than Under the Proposed Project
⇩ = Impact with Lesser Severity than Under the Proposed Project

Pursuant to the CEQA Guidelines, Alternative A is the Environmentally Superior Alternative. This alternative would slightly, although not significantly reduce construction-related impacts to air quality, noise, and utilities. In addition, it would generate fewer peak-hour vehicular trips, and as a result reduce VMT, as compared to the project. However, Alternative A would not reduce the level of impact to such a degree that would alter the significance of any impact.




Source: Nearmap, 2023

**Figure 1-1: Project Location**

Valley Gardens
*EIR*

Not to scale

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# 2 Introduction

This Environmental Impact Report (EIR) has been prepared to evaluate environmental impacts associated with the Valley Gardens mixed-use development project (the project) in Scotts Valley, CA as submitted by Robson Homes (applicant).

The City of Scotts Valley is the public agency with the principal responsibility for approving the project, and as such is the Lead Agency for this project under the California Environmental Quality Act of 1970 (CEQA) as defined in CEQA Guidelines Section 15367. CEQA requires the Lead Agency to consider the information contained in the EIR prior to taking any discretionary action. This EIR is intended to serve as an informational document to be considered by the City of Scotts Valley and other permitting agencies during their respective processing of permits for the project.

The City of Scotts Valley has determined that the project would have a potentially significant impact on the environment. As a result, this EIR has been prepared in accordance with CEQA, as amended (Public Resources Code [PRC] Section 21000, et seq.), and the State CEQA Guidelines for Implementation of CEQA (California Code of Regulations [CCR], Title 14, Section 15000 et seq.). This EIR also complies with the procedures established by the City for implementation of CEQA.

## 2.1 Purpose and Intended Uses of the EIR

This EIR has been prepared to evaluate environmental impacts that may result from implementation of the project.

The City of Scotts Valley has the authority to take discretionary actions relating to development of the project and may conditionally approve or deny it. This EIR evaluates and mitigates the potential impacts associated with the project. The EIR also discloses growth-inducing impacts; impacts found not to be significant; and significant cumulative impacts of the project in combination with past, present, and reasonably foreseeable future projects.

This EIR will serve as a Project EIR pursuant to the Guidelines for the California Environmental Quality Act (State CEQA Guidelines) (CCR Title 14, Chapter 3, Sections 15000-15387), Sections 15161 and 15168(a)(2), respectively. According to Section 15161 of the State CEQA Guidelines, a Project EIR is appropriate for specific development projects in which information is available for all phases of the project, including planning, construction, and operation.

CEQA requires the Lead Agency to consider the information contained in the EIR prior to taking any discretionary action. This EIR provides information to the Lead Agency and other public agencies, the general public, and decision makers regarding the potential environmental impacts from the construction and operation of the project. The purpose of the public review of the EIR is to evaluate the adequacy of the environmental analysis in terms of compliance with

CEQA. Section 15151 of the CEQA Guidelines states the following regarding standards from which adequacy is judged:

> An EIR should be prepared with a sufficient degree of analysis to provide decision makers with information which enables them to make a decision which intelligently takes account of environmental consequences. An evaluation of the environmental effects of a project need not be exhaustive, but the sufficiency of an EIR is to be reviewed in the light of what is reasonably feasible. Disagreement among experts does not make an EIR inadequate, but the EIR should summarize the main points of disagreement among experts. The courts have not looked for perfection but for adequacy, completeness, and a good faith effort at full disclosure.

Under CEQA, "The purpose of an environmental impact report is to identify the significant effects on the environment of a project, to identify alternatives to the project, and to indicate the manner in which those significant effects can be mitigated or avoided" (PRC Section 21002.1[a]). An EIR is the most comprehensive form of environmental documentation identified in CEQA and the CEQA Guidelines and provides the information needed to assess the environmental consequences of a project. EIRs are intended to provide an objective, factually supported, full-disclosure analysis of the environmental consequences associated with a project that has the potential to result in significant, adverse environmental impacts.

As required by State CEQA Guidelines Section 15128, this EIR identifies the effects of the project determined to be significant. Some environmental resources were determined to have no impact as a result of the project and are described in Chapter 21, Other CEQA Considerations.

## 2.2 Overview of Project

As shown in Figure 3-1: Illustrative Site Plan, the project is comprised of 196 residential dwelling units. This includes 62 two-story sing-family dwellings, 80 attached and detached two, to three story single-family dwellings. 54 multi-family apartments are proposed in two buildings (18 units and 36 units, respectively) on the northeastern corner of the project site.

The project also includes up to three retail buildings near Mt. Hermon Road totaling approximately 8,350 square feet of commercial building space and up to 3,000 square feet of associated outdoor dining areas. The project also includes 4.99 acres of parks, open space, common areas and public trails.

Primary access to the site is from Mount Herman Road and Lockewood Lane via a new local road (Springvale Drive), with parking on one side in some areas. Access to the commercial uses are from Springvale Drive. Internal access to the residential units are from secondary local roads and a series of cul-de-sacs and alleys. A separated multi-use pedestrian/bicycle trail will be constructed, generally adjacent to Springvale Drive.

## 2.3 Purpose and Need for Project

The project site is currently vacant and was previously occupied by the Valley Gardens Golf Course, which closed in 2018. The project Applicant (Robson Homes) submitted a development application in June of 2020. The project would provide additional housing and commercial development on a currently underdeveloped property located in the City of Scotts Valley.

## 2.4 Public Involvement

CEQA requires the lead agency to provide the public with a full disclosure of the expected environmental consequences of the project and with an opportunity to provide comments. In accordance with CEQA, the process for public participation in the decision-making takes place through the following steps:

**Notice of Preparation (NOP) and Scoping**. The City of Scotts Valley published an NOP of an EIR on September 21, 2021. The public comment period closed on October 25, 2021 (see Appendix A: Notice of Preparation and Comment Letters).

**Comments on Draft EIR**. The 45-day public comment period on the project extends from **August 30, 2024, to October 14, 2024**. Written comments may be sent to the City of Scotts Valley at the address below. Comments must be received no later than 5:00 PM upon the last day of the comment period.

Susie Pineda, Contract Planner
City of Scotts Valley Planning Department
One Civic Center Drive
Scotts Valley, CA 95066
E-mail: spineda@m-group.us
Phone: (408) 331-7987

## 2.5 Required Permits and Approvals

Table 2-1: Permits or Other Actions Required for Project, lists the anticipated federal, State, and local permits and authorizations required for the project.

**Table 2-1: Permits or Other Actions Required for Project**

| Agency | Permit or Regulatory Requirement |
|---|---|
| City of Scotts Valley | ▪ **General Plan Amendment** to change the boundaries of the existing Open Space (OS) and Commercial Service (C-S) land use designations and create three new land use designations: 1) Residential - Medium High (R-MH) and 2) Residential – Very-High (R-VH), and 3) Public / Quasi Public (P).<br>▪ **Re-Zone** to change the boundaries of the existing Open Space (OS) and Commercial Service (C-S) designations and add three new designations: 1) R-M-6 Medium High Residential, 2) R-VH Very-High Residential, and 3) P Public / Quasi Public.<br>▪ **Planned Development** in conjunction with the Zone Change request to allow for the approval of a general development plan incorporating alternative development standards.<br>▪ **Vesting Tentative Tract Map** for the subdivision of land for residential, commercial and common areas.<br>▪ **Development Agreement** to address community entitlements, affordable housing, parks and recreation facilities, etc.<br>▪ **Use permits**.<br>▪ **Design Review** to evaluate the site design and architecture.<br>▪ **Planned Sign Program** to evaluate the proposed signs. |
| U.S. Fish and Wildlife Service | ▪ Incidental Take Permit associated with Mount Hermon June Beetle (to comply with the Federal Endangered Species Act). |

## 2.6 Reader's Guide to the EIR

### 2.6.1 Incorporation by Reference

As permitted in Section 15150 of the State CEQA Guidelines, an EIR may reference all or portions of another document that is a matter of public record or is generally available to the public. If information from these documents has been incorporated by reference, the EIR briefly summarizes this information in the appropriate sections of this EIR, describes the relationship between the incorporated information and the EIR, and identifies how the public may obtain and review these documents.

Some of the information provided in this EIR is based on the following documents:

- Project application materials and technical reports and data
- City of Scotts Valley General Plan (2023)
- City of Scotts Valley Municipal Code
- 2020 Urban Water Management Plan for the San Lorenzo Valley Water District and the Scotts Valley Water District (Montgomery & Associates, 2021)

Copies of project-related documents and the City's General Plan are available on the City's website at:

Scotts Valley General Plan | Scotts Valley, CA

The City's ordinances are available at the MuniCode website: https://www.municode.com/library/ca/scotts_valley/codes/code_of_ordinances.

Copies can also be viewed, upon request, at the Scotts Valley Department of Planning in Scotts Valley (address provided under the Introduction section above).

## 2.7 EIR Organization

Pursuant to State CEQA Guidelines, Section 15120(c), this EIR contains the information and analysis required by Sections 15122 through 15131. Each of the required elements is covered in one of the EIR chapters and appendices, organized as follows.

**Executive Summary**. A summary description of the project, the alternatives, their respective environmental impacts and the Environmentally Superior Alternative.

**Introduction**. A discussion of the background, purpose and need for the project, briefly describing the project, and outlining the public agency use of the EIR.

**Project Description**. Detailed description of the project.

**Environmental Analysis:** A comprehensive analysis and assessment of impacts and mitigation measures for the project. This section is divided into an Environmental Assessment Methodology section describing analysis approach for the project, followed by a Cumulative Impacts section, which details the cumulative project scenario. The remainder of the Environmental Analysis portion of the document is divided into main sections for each environmental issue areas (e.g., Air Quality, Biological Resources, etc.) that contain the environmental settings and impacts of the project. Each environmental issue area includes a separate analysis of cumulative impacts.

**Alternatives**. A description of the alternative's evaluation process, as well as a description of alternatives considered but eliminated from further analysis and the rationale thereof. This section also includes an analysis and assessment of impacts for alternatives retained, including the No Project Alternative.

**Other CEQA Considerations**. A discussion of growth-inducing effects, long-term implications of the project, and significant environmental effects which cannot be avoided if the project is implemented.

**EIR Preparers and Organizations Consulted**.

**Appendices**.

# 3 Project Description

## 3.1 Introduction

This chapter describes the project. Figures illustrating the project design are shown at the end of this chapter and are referenced herein.

## 3.2 Project Objectives

Section 15124 of the CEQA Guidelines requires that a clearly written statement of objectives be presented in an EIR to help lead agencies develop a reasonable range of alternatives, and to aid the decision makers in preparing findings of significant effects or a statement of overriding considerations, as necessary.

The following objectives have been identified by the project applicant for the project:

1. Provide a balanced mix of residential and commercial uses that integrate into the existing urban setting.
2. Create a high-quality development that is visually and aesthetically compatible with adjacent land uses.
3. Expand and improve the City's housing supply in support of the City's Regional Needs Housing Allocation (RHNA) as described in the City's General Plan Housing Element.
4. Provide affordable and market-rate housing consistent with the City of Scotts Valley General Plan Housing Element goals and policies.
5. Provide a mix of residential and commercial uses that achieves a financially feasible project.
6. Locate commercial and residential uses where such uses can take advantage of existing infrastructure and utilities.
7. Provide and improve pedestrian connections within the project site and adjacent arterial streets to facilitate pedestrian activity between neighborhoods and within the development.

## 3.3 Site Description

### 3.3.1 Site Characteristics

#### Project Location

As shown in Figure 1-1: Project Location, the project is located on an approximately 30-acre site located at 263 Mount Herman Road (APNs 021-011-34, 021-221-02, 021-231-04, 021-231-07 and 021-231-08) and 475 Lockewood Lane (APN 021-231-02) in Scotts Valley, California. The project site was formerly the Valley Gardens Golf Course.

### Site History

The project site was historically naturally vegetated with the northern portion likely used as grazing land for cattle as early as the 1940s. Roads were located across the site as early as the 1940s but development did not occur until the 1960s when two structures, including the current residence at 475 Lockewood Lane (the "Caretaker's House"), were constructed on the southern portion of the site. In 1971, the project site was developed into a nine-hole golf course which was closed in 2018.

### Existing Setting

The project site is currently undeveloped but for a few maintenance structures and portable buildings associated with the previous golf course. Other features include two former ponds (now dry), two groundwater wells, and an asphalt parking lot.

The existing topography of the project site varies by approximately 56 feet, between elevation 514 feet in the north near Mt. Hermon Road and 570 feet near the southwestern portion of the site.

### Surrounding Land Uses

Surrounding land uses include commercial to the north (adjacent to Mt. Hermon Road) and residential uses surrounding the remainder of the project site.

## 3.3.2 Existing General Plan Land Use Designations and Zoning

### General Plan Designation

The project site has a General Plan land use designation of Service Commercial (C-S) on nearly one acre adjacent to Mt. Hermon Road. Allowed land uses include retail stores and shops, food and motel/hotel establishments, services such as printing shops and electrical repair shops, heating and ventilating shops.

The remainder of the project site has a land use designation of Open Space (OS) which are designated in areas for the conservation of the community's natural or scenic resources. Appropriate open space areas include wetlands and open water, plant and wildlife habitats, timber production zones, farmlands and grazing areas, and park and recreational areas.

### Zoning

The project site is zoned Service Commercial (C-S) on nearly one acre adjacent to Mt. Hermon Road. This district is designed to create and maintain areas accommodating city-wide and regional services that may be inappropriate in neighborhood or pedestrian-oriented shopping areas and which generally require automotive access for customer convenience, servicing of vehicles or equipment, loading or unloading, or parking of commercial service vehicles.

Permitted uses in the C-S district include:

- Retail establishments

- Banks
- Business and personal service establishments
- Emergency shelters (≤25 occupants)
- Medical, professional and general business offices
- Radio and television broadcast studios (excluding transmission towers)
- Accessory structures and uses located on the same site with a permitted use which are customarily incidental to the permitted use
- Multiple-family dwellings located either above the ground-level commercial use or at ground level at the rear of a commercial space on sites designated in the Housing Element
- Day care centers

The remainder of the project site is zoned Open Space (OS). This land use classification is designed to preserve and enhance the use of open-space lands as a limited and valuable resource. It is further intended to permit limited but reasonable use of open-space land while protecting the public health, safety and welfare; to ensure the continued availability of land in agricultural production; to preserve the topography of the city that shapes it and gives it identity; and to implement the city's open space element of the General Plan.

Permitted uses in the OS zone include:

- Fish and wildlife management activities or facilities
- Flood-control channels and drainage facilities
- Public and private recreation areas, parks, playgrounds, wildlife preserves and timber preserves
- Watershed management activities or facilities, including but not limited to aquifer recharge areas, stream restoration projects and related activities
- Accessory uses and structures located on the same site with a permitted use which are customarily incidental to the permitted use, including but not limited to incidental storage facilities and signs which pertain only to a permitted use on the premises, and which are in accordance with the provisions of Chapter 17.56 of the Scotts Valley Municipal Code.

## 3.4 Proposed Land Uses

As shown in Figure 3-1: Illustrative Site Plan, the project is comprised of 196 residential dwelling units. This includes 62 two-story single-family dwellings, 80 attached and detached two, to three story single-family dwellings. 54 multi-family apartments are proposed in two buildings (18 units and 36 units, respectively) on the northeastern corner of the project site.

The project also includes up to three retail buildings near Mt. Hermon Road totaling approximately 8,350 square feet of commercial building space and up to 3,000 square feet of associated outdoor dining areas. The project also includes 4.99 acres of parks, open space, common areas and public trails.

Primary access to the site is from Mount Herman Road and Lockewood Lane via a new local road (Springvale Drive), with parking on one side in some areas. Access to the commercial uses are from Springvale Drive. Internal access to the residential units are from secondary local roads and a series of cul-de-sacs and alleys. A separated multi-use pedestrian/bicycle trail will be constructed, generally adjacent to Springvale Drive.

Table 3-1: Land Use by Area lists the various land uses in acres. These land uses and their parcels are shown in Figure 3-2: Project Parcels.

**Table 3-1: Land Use by Area**

| Use | Total (acres) |
|---|---|
| Single-Family / Duplex Residential (142) | 18.42 |
| Multi-Family Residential (54) | 2.71 |
| Commercial | 1.53 |
| Future Utilities for SCWD | 0.08 |
| Park | 1.43 |
| Open Space, including multi-modal trail | 3.56 |
| Public Right-of-Way | 2.38 |
| **Total** | **30.11** |
| **Gross Residential Density [1]** | **6.9 units / acre** |

Notes:
1. Gross residential density is calculated by the number of residential units divided by the total project site less the commercial area (196 units / 28.18 acres).

Source: Robison Homes, 2024.

### 3.4.1 Affordable Housing

Although the project is outside of the City's Success Agency of the former Redevelopment Agency, the project applicant has agreed to comply with the City's inclusionary housing requirements for affordable housing. Per Municipal Code section 14.01.040.C.2, the project applicant will designate fifteen percent (15%) of the units for affordable housing, either on- or off-site. With 196 units proposed, 29 affordable homes would be provided plus an in-lieu fee for the 0.4 remainder. In an offsite scenario, the project applicant would identify and obtain City approval for such an offsite option no later than the issuance of building permits.

## 3.5 Architectural Design

Incorporating a variety of unit sizes and floor plans, the architecture of the project will reflect a "farmhouse" theme incorporating sloped roof and stucco and wood siding, with wood accents such as vertical siding, board and batten, and stone. The commercial component will have a similar architectural theme complimenting the residential designs.

Figure 3-4: Conceptual Rendering – Traditional Single-Family, Figure 3-5 Conceptual Rendering – Alley Loaded Small Lot Single Family, and Figure 3-6: Conceptual Rendering – Apartment illustrate the architectural character of the residential dwelling units. Figure 3-7: Conceptual Rendering – Commercial (1) and Figure 3-8: Conceptual Rendering – Commercial (2) illustrate the architectural character of the commercial area.

## 3.6 Planned Development Modifications

The project will be developed as a Planned Development (PD) per Chapter 17.38 of the City's Municipal Code. Planned Development (PD) districts must be combined with a base zoning district, and they are to be individually designed to meet the needs of the property, taking into account topography, vegetation, and other development constraints. PD districts allow for increased flexibility up to the maximum allowable density. Development must be undertaken pursuant to a "general development plan," which is adopted by the City Council as part of any planned development zoning ordinance (Section 17.38.020).

Proposed PD modifications include variations to building height for the single-family and multi-family residential design, as well as modifications to lot sizes and setbacks.

## 3.7 Landscape Design

According to the Tree Inventory Assessment by Monarch Consulting Arborists (May 2024, see Appendix C-8), there are 579 trees comprised of 35 different species with coast live oak (*Quercus agrifolia*) and Mexican fan palm (*Washingtonia robusta*) being the most abundant. Most of the trees are in good or fair condition with forty-two percent (42%) good and forty-five percent (45%) fair. Forty-nine percent (49%) have good suitability for retention and remaining fifty-one percent (51%) either fair, poor or they are dead.

Four-hundred and thirty-five (435) trees would be highly impacted and caused to be removed. The remaining one-hundred and thirty-five (135) trees would either be moderately affected or not impacted and are to be retained and protected. Thirteen trees recently died and some were removed for fire safety but were included in the inventory. The remaining one-hundred and forty-two (142) trees would either be moderately affected or not impacted and are to be retained and protected. Of the trees to be removed one-hundred and seventy (170) trees consist of over planted Mexican fan palms or trees in poor condition with poor suitability. Most of the tree protection for this project would require encompassing large groups of trees and few individuals at to be determined radii. Many are located around the perimeter.

The project would incorporate new trees, shrubs, perennials and groundcovers throughout the project site, particularly along roadways and the parking lot associated with the commercial uses. A 2.5-acre neighborhood park, located adjacent to the retail and multi-family units would include improvements to the existing pond (to be used for bioretention), and ornamental trees, shrubs, and grasses.

As a visual screening and buffer, landscaping would be planted in the open space adjacent to the Spring Lakes mobile home park and Rolling Green HOA.

## 3.8 Site Access, Circulation, and Parking

As shown in Figure 3-1: Illustrative Site Plan, vehicular access to the project site would be from Mount. Hermon Road and Lockewood Lane. A portion of the existing traffic island on Mt. Hermon Road will be reconfigured with a left turn protected lane.

A fully separated multi-use trail would extend from Mt. Hermon Road to Lockewood Lane, generally adjacent to Springvale Drive. Pathways and sidewalks would also extend throughout the project site providing access to the residential units, the public park, and other open space areas.

The 62 single-family units would include two-car garages and driveways for two vehicles. The 80 higher density, alley loaded, single-family units would include a two-car garage. The 54 apartment units would include one covered space and one uncovered space per unit. Three surface parking lots would be constructed for the retail use.

Bicycle parking would be provided for the commercial uses and apartments.

## 3.9 Grading and Infrastructure

### 3.9.1 Grading

The project site gently slopes from south to north (toward Mt. Hermon Road). Earthwork would include grading and contouring to accommodate drainage and elevation requirements. The project will require 49,700 cubic yards of cut, and 51,400 cubic yards of fill; for a net import of 1,700 cubic yards.

### 3.9.2 Wet Utilities

As shown in Figure 3-9: Preliminary Utility Master Plan, potable water (provided by the San Lorenzo Valley Water District) for the project site would be accessed from an existing 10-inch main on Mt. Hermon Road and an existing six-inch main on Lockewood Lane. Recycled water (provided by the Scotts Valley Water District) to serve the landscaped areas around the commercial area and the central park would be extended from an existing eight-inch main located along Mt. Hermon Road.

The project would utilize an existing 10-inch sanitary sewer main that extends along Mt. Hermon Road, and an eight-inch sanitary sewer main on Lockewood Lane.

The project would also allocate 0.08 acres for the future construction of a new groundwater well and storage tank by the Scotts Valley Water District.

### 3.9.3 Stormwater

The project site is currently undeveloped, allowing sheet flow across its entirety. The soil consists of sandy, silty sand, sandy silt, and Santa Margarita sandstone. There are two dry depressions that were previously used as ponds that were maintained by groundwater pumped from two wells located on the project site. Municipal storm drains exist along Mt. Hermon Road to the north and along Lockewood Lane to the west.

Project development would include earth-disturbing activities, which may affect site-specific infiltration and permeability during construction (temporary) and operation (permanent). The project would result in 589,158 sf (approximately 43 percent of the project site) of new impervious surfaces, which would increase stormwater flows (Project Plans dated May 6, 2024, Sheet C7.0). Since the project exceeds the 22,500 threshold of replaced and new impervious surface, it is considered to fulfill Tier 4 of post-construction Best Management Practices (BMP) requirements.

As shown in Figure 3-10: Proposed Drainage Management Areas, there are three stormwater drainage management areas (DMAs) designed to collect, filter and control stormwater to downstream Stormwater Control Measure (SCM) facilities. The majority of the project conveys runoff through the storm drain system and into the tributary basins and underground retention facility. The commercial parking lot would sheet flow into a SCM. Each SCM would provide additional storage volume for larger storm events.

SCMs for the project site consist of two (2) bioretention basin facilities and one (1) underground retention facility. A bioretention basin is a depressed area with porous engineered soil and landscaping that captures, treats, and infiltrate runoff. Where additional volume capacity is needed bioretention facilities will allow for ponding to increase volume capacity.

An underground storage facility with an open bottom will be sized to retain and infiltrate a pre-defined volume of runoff within a reasonable drawdown time (e.g., 72 hours). The facility may be designed to be on-line or off-line with a diversion structure and/or overflow release mechanism. This type of facility is considered a direct infiltration facility and is generally only applicable when seasonal high groundwater is greater than 10-feet below subgrade elevation and infiltration rates are higher than 0.5 in/hr. Drawdown times are recommended to be 72-hours or less.

The bioretention basin consists of an upper basin area with a landscaped ponding area. An overflow structure would capture any excess ponding and route into the project site's storm drainage system. Engineered soil media would be located below the ponding area. Below the soil media there would be a layer of gravel (class 2 permeable material). Overflow structures

will be provided at each basin and flows routed to the storm drain system and then to the City's storm drain system.

Construction of the storm drain facilities will be completed by the project applicant. The responsibility for operation and maintenance of stormwater treatment and flow control facilities will be transferred to a Homeowners Association (HOA) once it has been created.

## 3.10 Project Approvals

In addition to certification of the EIR, the project would require the following City approvals:

- **General Plan Amendment** to change the boundaries of the existing Open Space (OS) and Commercial Service (C-S) land use designations and create three new land use designations: 1) Residential - Medium High (R-MH) and 2) Residential – Very-High (R-VH), and 3) Public / Quasi Public (P).
- **Re-Zone** to change the boundaries of the existing Open Space (OS) and Commercial Service (C-S) designations and add three new designations: 1) R-M-6 Medium High Residential, 2) R-VH Very-High Residential, and 3) P Public / Quasi Public.
- **Planned Development** in conjunction with the Zone Change request to allow for the approval of a general development plan incorporating alternative development standards.
- **Vesting Tentative Tract Map** for the subdivision of land for residential, commercial and common areas.
- **Development Agreement** to address community entitlements, affordable housing, parks and recreation facilities, etc.
- **Use Permits**.
- **Design Review** to evaluate the site design and architecture.
- **Planned Sign Program** to evaluate the proposed signs.

Figure 3-11: Existing and Proposed General Plan Designation illustrates the General Plan amendments that would be implemented as part of project approval. Figure 3-12: Existing and Proposed Zoning Designation illustrates the zoning designation changes that would be implemented as part of project approval.




Source: Robson Homes, 2024

**Figure 3-1: Illustrative Site Plan**

Valley Gardens
*EIR*

Not to scale

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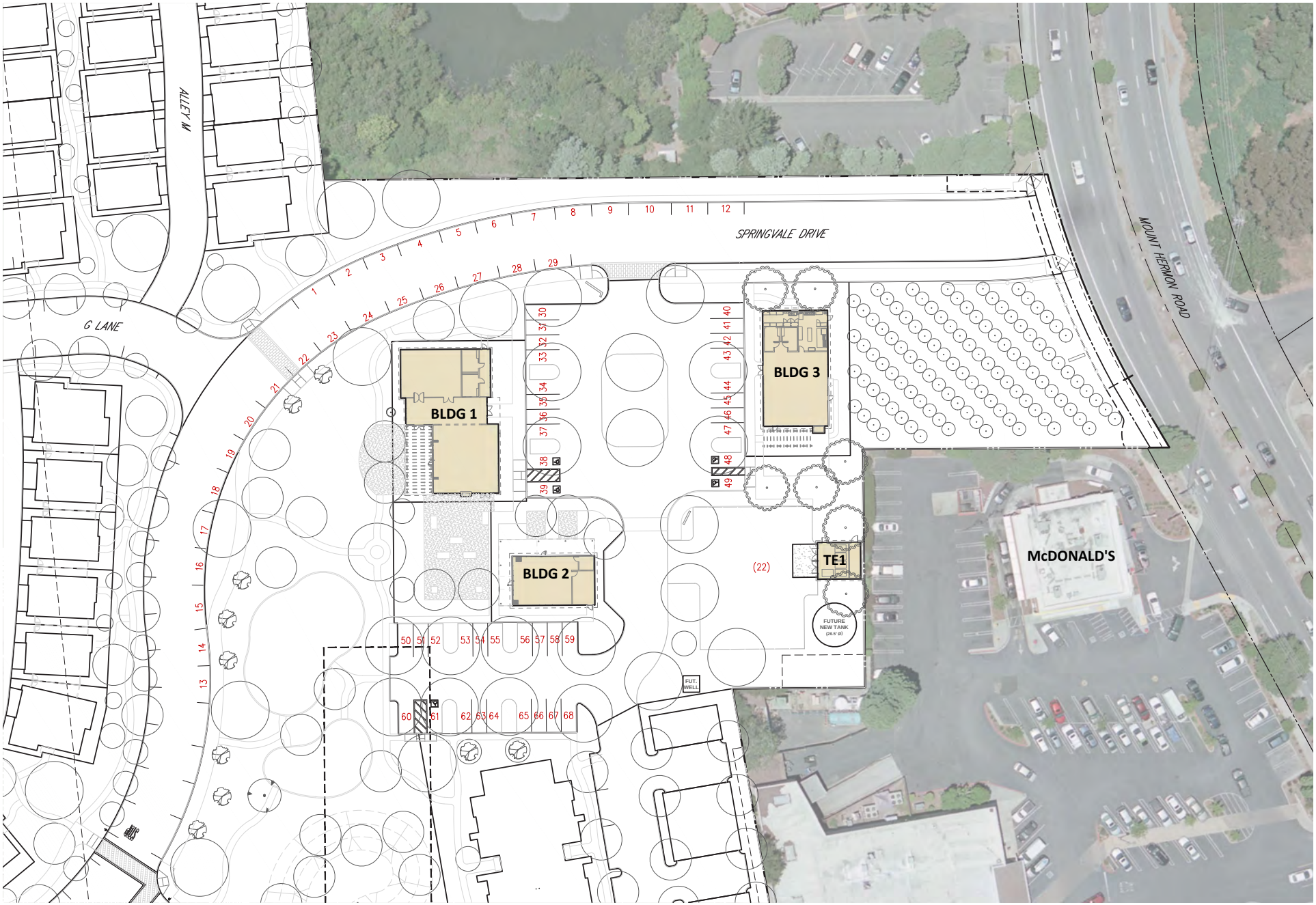

Source: Robson Homes, 2024

**Figure 3-2: Project Parcels**

Valley Gardens
*EIR*

Not to scale

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Source: Robson Homes, 2024

**Figure 3-3: Retail Site Plan**

Valley Gardens
*EIR*

Not to scale

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Source: Robson Homes, 2024

**Figure 3-4: Conceptual Rendering – Traditional Single-Family**

Valley Gardens
*EIR*

Not to scale

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Source: Robson Homes, 2024

**Figure 3-5: Conceptual Rendering – Alley Loaded Small Lot Single Family**

Valley Gardens
*EIR*

Not to scale

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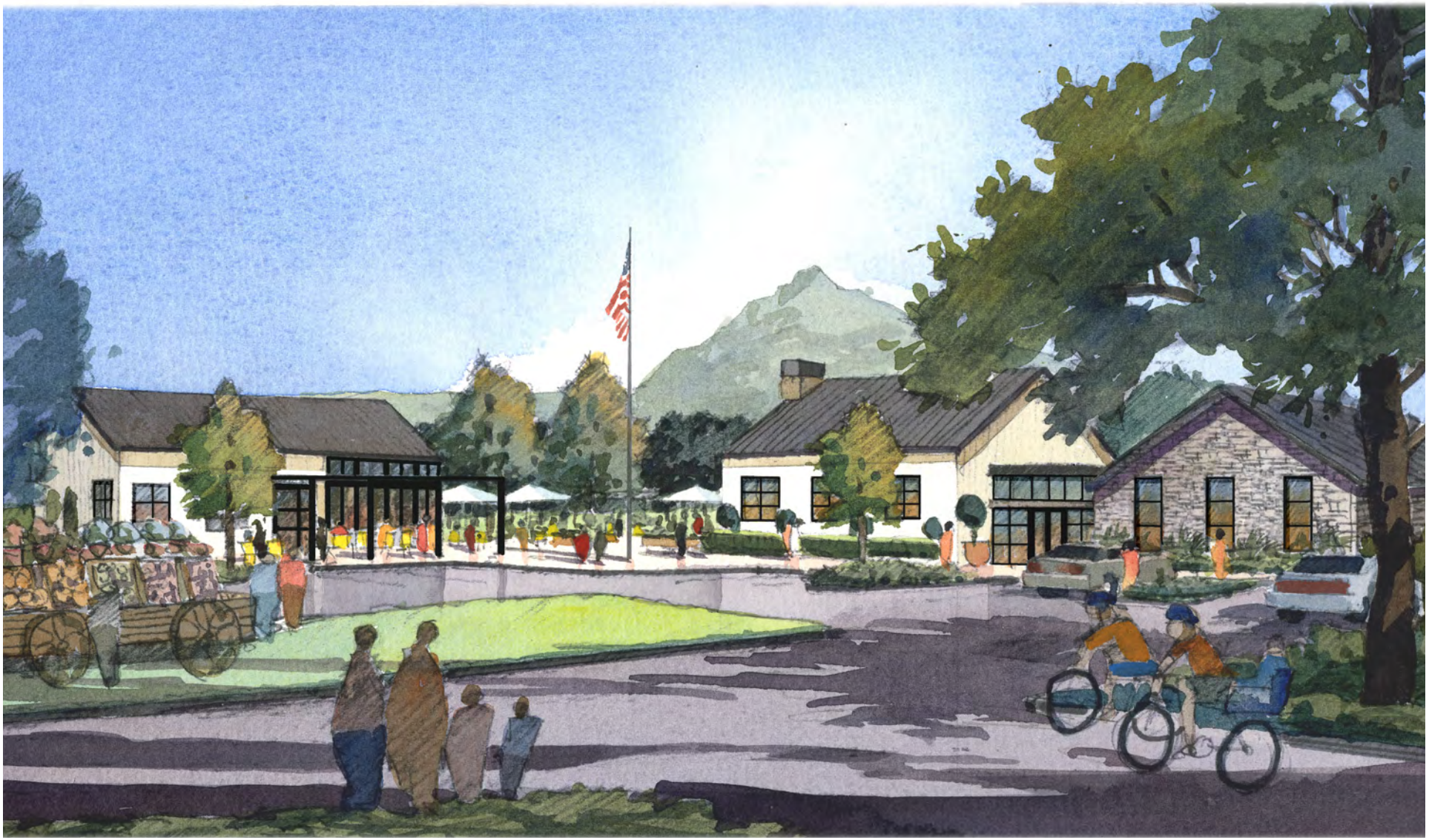
Source: Robson Homes, 2024

**Figure 3-6: Conceptual Rendering – Apartment**

Valley Gardens
*EIR*

Not to scale

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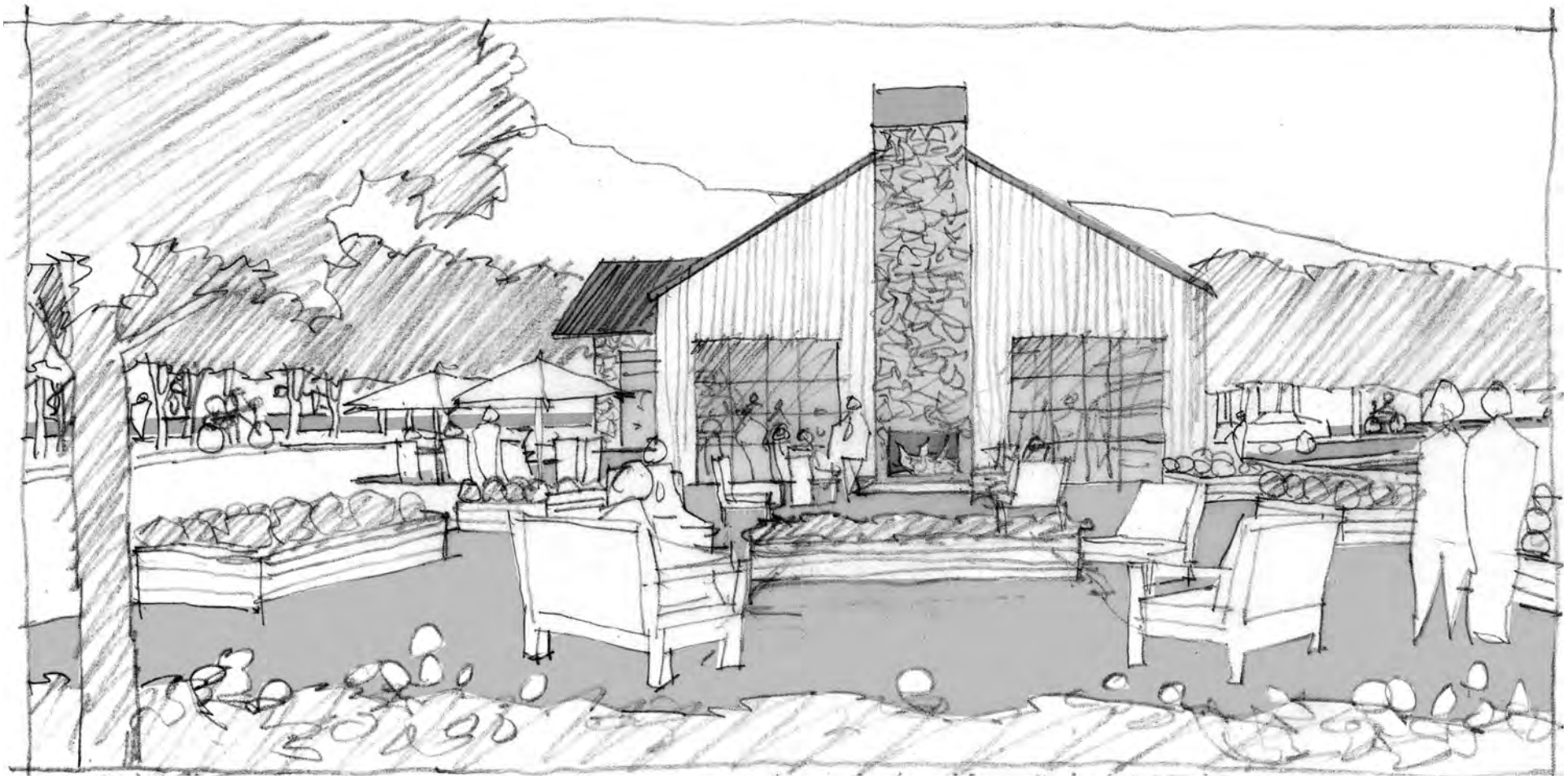
Source: Robson Homes, 2024

**Figure 3-7: Conceptual Rendering – Commercial (1)**

Valley Gardens
*EIR*

Not to scale

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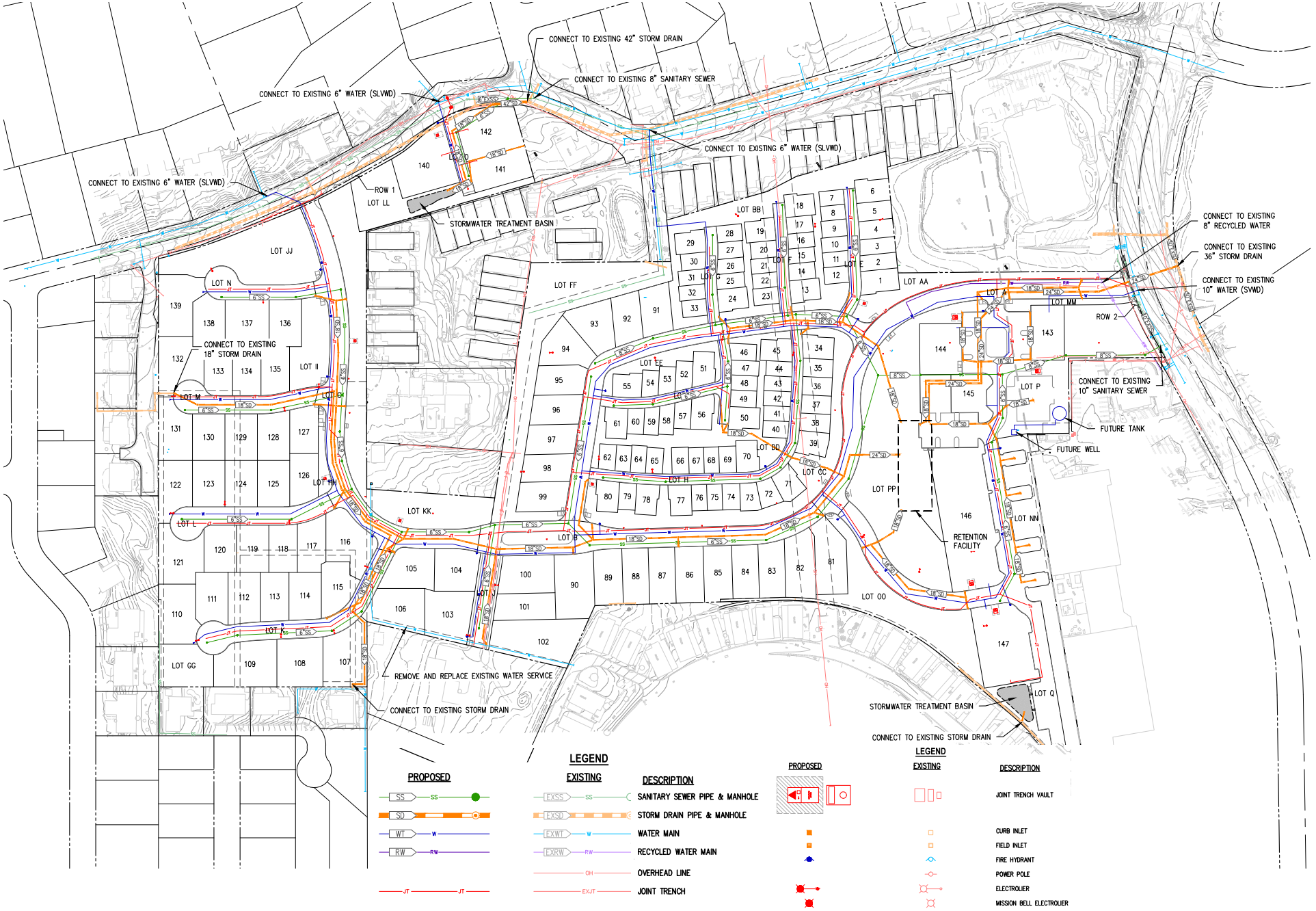
Source: Robson Homes, 2024

**Figure 3-8: Conceptual Rendering – Commercial (2)**

Valley Gardens
*EIR*

Not to scale

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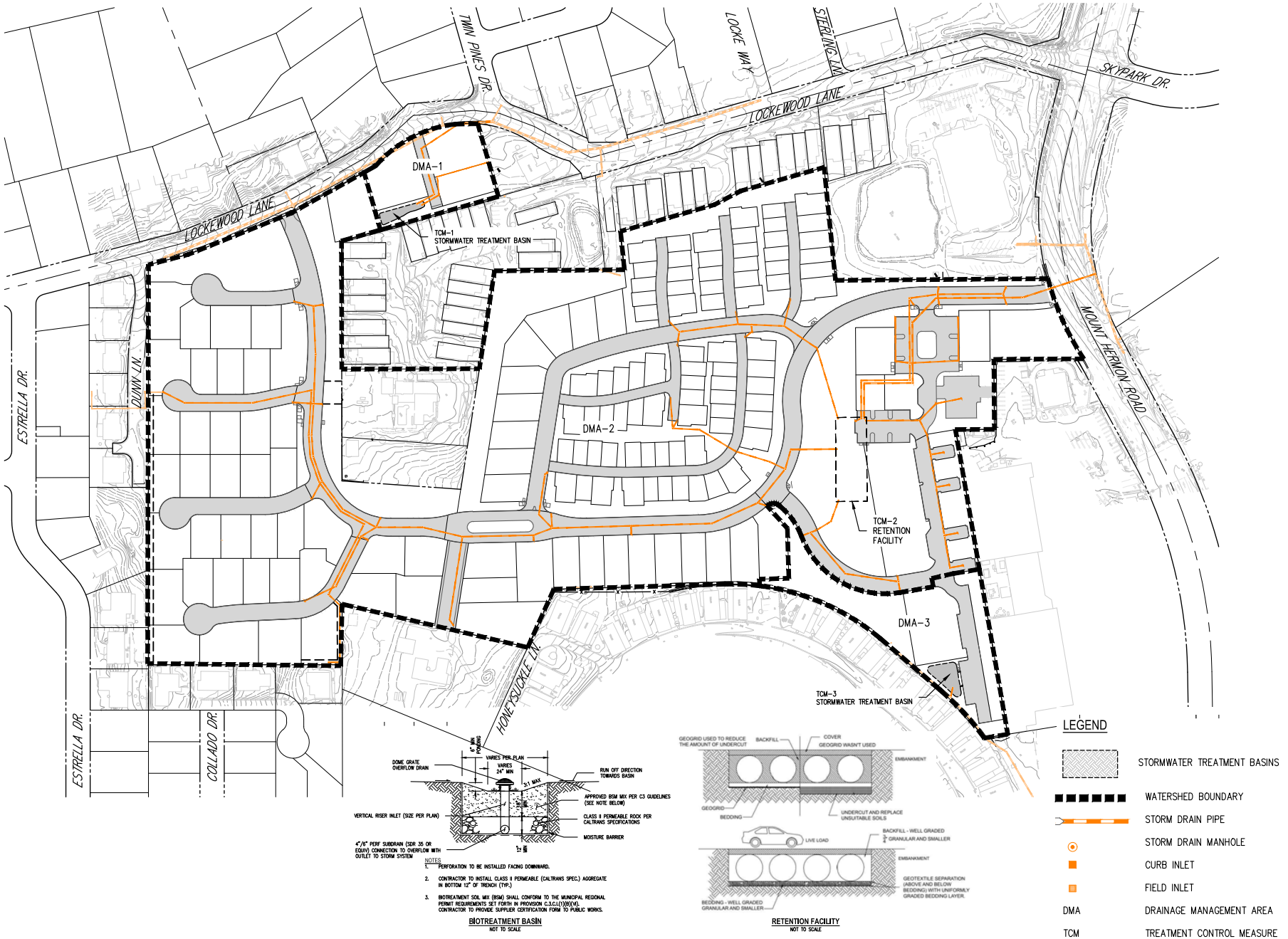

Source: Robson Homes, 2024

**Figure 3-9: Preliminary Utility Master Plan**

Valley Gardens
*EIR*

Not to scale

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Source: Robson Homes, 2024

**Figure 3-10: Proposed Drainage Management Areas**

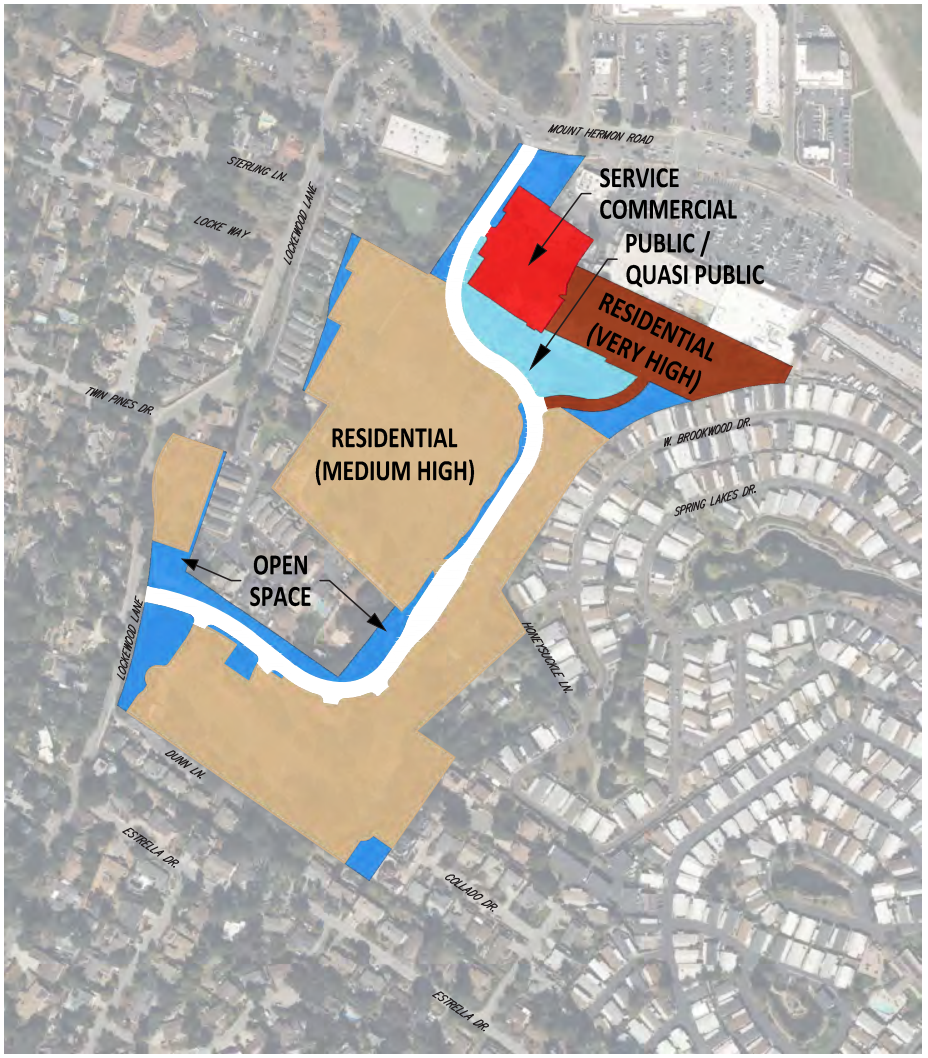
Valley Gardens
*EIR*

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EXISTING GENERAL PLAN DESIGNATION




PROPOSED GENERAL PLAN DESIGNATION

SERVICE COMMERCIAL

OPEN SPACE

RESIDENTIAL - MEDIUM HIGH

RESIDENTIAL - VERY HIGH

PUBLIC / QUASI PUBLIC

Source: City of Scott's Valley, 2024

**Figure 3-11: Existing and Proposed General Plan Designation**

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*EIR*

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EXISTING ZONING DISTRICTS




PROPOSED ZONING CLASSIFICATION

C-S, PD: SERVICE, PD

OS, PD: OPEN SPACE, PD

R-M-6, PD: MEDIUM DENSITY, PD

R-VH, PD: VERY HIGH DENSITY, PD

P, PD: PUBLIC/QUASI PUBLIC, PD

Source: City of Scotts Valley, 2024

**Figure 3-12: Existing and Proposed Zoning Designation**

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# 4 Introduction to Environmental Analysis

## 4.1 Environmental Assessment Methodology

The environmental resource analysis below (by chapter) describes the environmental impacts that would result from the project, as described in Chapter 3. This analysis considers the comments submitted during the scoping process (see Appendix A: Notice of Preparation and Comment Letters).

### 4.1.1 Methodology

The methodology used to determine potential impacts consists of three key components, summarized below.

**Environmental Setting**. The environmental setting describes existing conditions in the project site that may change as a result of the construction and operation of the project. Pursuant to CEQA Guidelines (Section 15125(a)), the environmental setting used for the impact analysis reflects the conditions at the time of the issuance of the Notice of Preparation.

**Applicable Regulations, Plans, and Standards**. Each issue area includes a description of current public policies, regulations, programs, and standards that apply to the project.

**Environmental Impacts and Mitigation**. This section evaluates the environmental impacts (including cumulative) of the project based on predetermined, specific significance criteria. In determining the significance of impacts, the assessment considers the ability of existing regulations and other public agency requirements to reduce potential impacts. If an adverse impact is potentially significant despite existing regulations and requirements, mitigation measures are proposed to reduce or avoid the impact, where feasible. Mitigation measures are required only for significant adverse impacts. Once impacts and mitigation measures, as applicable, are presented, the "level of significance after mitigation" is determined.

### 4.1.2 Impact Significance

While the criteria for determining whether an impact is significant are unique to each issue area, a uniform classification of impacts is used in this EIR. Each impact is categorized based on the following definitions:

- **Unavoidable significant impact**; cannot be mitigated to a level that is less than significant.
- **Significant impact**; can be mitigated to a level that is less than significant through implementation of recommended mitigation measures.
- **Adverse impact**; but less than significant, so mitigation is not normally recommended.
- **Beneficial impact**; mitigation is not required.
- **No impact**

### 4.1.3 Mitigation Measures

Where potentially significant impacts are identified, mitigation measures are identified. Each mitigation measure defines the specific requirements to reduce impacts and defines the timeframe, responsible party, and the mitigation monitoring requirement, if applicable.

### 4.1.4 Mitigation Monitoring

Public Resources Code Section 21081.6 establishes two distinct requirements for agencies involved in the CEQA process. Subdivisions (a) and (b) of the section relate to mitigation monitoring and reporting, and the obligation to mitigate significant effects where possible. Pursuant to subdivision (a), whenever a public agency completes an EIR and makes a finding pursuant to Section 21081(a) of the Public Resources Code taking responsibility for mitigation identified in the EIR, the agency must adopt a program of monitoring or reporting which will ensure that mitigation measures are complied with during implementation of the project.

## 4.2 Effects Not Found to be Significant

Pursuant to the CEQA Guidelines §15128, "An EIR shall contain a statement briefly indicating the reasons that various possible significant effects of a project were determined not to be significant and were therefore not discussed in detail in the EIR." This chapter of the Draft EIR describes the resource areas which were found not to pose any potentially significant effects.

Based on the scope of the project, comment letters in response to the NOP, site visits, review of project applicant materials and technical reports, and additional background research on the construction and operational features of the project, the following resource topics were found to not have impacts that would be considered potentially significant. These topics, therefore, are not subject to further detailed analysis in the EIR.

### 4.2.1 Agricultural and Forestry Resources

The project site is not designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance by the State Farmland Mapping and Monitoring Program (FMMP). It is designated as Urban and Built-Up Land (DOC, 2016). No Williamson Act contract applies to the project site. The project site does not currently comprise agricultural or forestry uses, and it is designated for Commercial Service uses pursuant to the City of Scotts Valley General Plan and Zoning Ordinance. There would be no impact to agricultural and forestry resources.

### 4.2.2 Energy

Energy consumption associated with construction of the project would be temporary and short-term. Project design and operation would comply with State Building Energy Efficiency Standards, appliance efficiency regulations, and green building standards. Additionally, the project includes other design features such as EV charging stations, "cool" roofs, efficient lighting, and natural ventilation and lighting.

The project would be required to be built to City and State energy efficiency standards. The project would be required to comply with existing regulations, including applicable measures from the City's General Plan, or would be directly affected by the outcomes (vehicle trips and energy consumption would be less carbon intensive due to statewide compliance with future low carbon fuel standard amendments and increasingly stringent Renewable Portfolio Standards).

As such, the project would not conflict with any other state-level regulations pertaining to energy. The project would reduce single-occupancy traffic trips and include design features to improve energy efficiency. Therefore, the project would comply with existing State energy standards and would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency. There would be no impact to energy.

### 4.2.3 Mineral Resources

There are no active mines or quarries within 1,000 feet of the project site. The project site is not within a known mapped oil or gas field (CalGEM, 2022). The project site is not used for any mining or quarrying activity, thus there would be no impact to mineral resources. There are no active mines or quarries within 1,000 feet of the project site. The project site is not within a known mapped oil or gas field (CalGEM, 2022).

### 4.2.4 Population and Housing

Based on an average population of 2.43 person / household [1], the project would result in an increase in population of 476 persons, which is well within the land use buildout capacity projections identified within the City of Scotts Valley General Plan (2023) as well as the Association of Monterey Bay Area Government's 2022 Regional Growth Forecast for population and housing in the City of Scotts Valley by 2040. Therefore, there would be no impact.

### 4.2.5 Wildfire

The California Department of Forestry and Fire Protection (CAL FIRE) has mapped the relative wildfire risk in areas of large population by intersecting residential housing density with proximate fire threat according to three risk levels, namely Moderate, High, and Very High. Wildfires are large-scale brush and grass fires in undeveloped areas. The project is within an urbanized area and not within a Very-High Fire Hazard Severity Zone as mapped by CALFIRE. Therefore, there would be no impact.

1 Per https://www.census.gov/quickfacts/scottsvalleycitycalifornia (2018-2022)

## 4.3 Cumulative Impacts

### 4.3.1 CEQA Requirements

Under the CEQA Guidelines, "a cumulative impact consists of an impact which is created as a result of the combination of the project evaluated in the environmental impact report ("EIR") together with other projects causing related impacts." 14 Cal Code Regs §15130(a)(1). CEQA Pub. Res. Code §21000 et seq., an EIR must discuss cumulative impacts if the incremental effect of a project, combined with the effects of other projects is "cumulatively considerable." 14 Cal Code Regs §15130(a). Such incremental effects are to be "viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects." 14 Cal Code Regs §15164(b)(1). Together, these projects comprise the cumulative scenario which forms the basis of the cumulative impact analysis.

Cumulative impacts analysis should highlight past actions that are closely related either in time or location to the project being considered, catalogue past projects and discuss how they have harmed the environment and discuss past actions even if they were undertaken by another agency or another person. Both the severity of impacts and the likelihood of their occurrence are to be reflected in the discussion, "but the discussion need not provide as great detail as is provided for the effects attributable to the project alone. The discussion of cumulative impacts shall be guided by standards of practicality and reasonableness and shall focus on the cumulative impact to which the identified other projects contribute rather than the attributes of other projects which do not contribute to the cumulative impact." 14 Cal Code Regs §15130(b).

The analysis must be in sufficient detail to be useful to the decision maker in deciding whether, or how, to alter the program to lessen cumulative impacts. Significant adverse impacts of the cumulative projects would be required to be reduced, avoided or minimized through the application and implementation of mitigation measures. The net effect of these mitigation measures is assumed to be a general lessening of the potential for a contribution to cumulative impacts.

There are two commonly used approaches, or methodologies, for establishing the cumulative impact setting or scenario. One approach is to use a "list of past, present, and probable future projects producing related or cumulative impacts." 14 Cal Code Regs §15130(b)(1)(A). The other is to use a "summary of projects contained in an adopted general plan or related planning document, or in a prior environmental document which has been adopted or certified, which described or evaluated regional or area wide conditions contributing to the cumulative impact." 14 Cal Code Regs §15130(b)(1)(B).

This EIR uses the list-based approach to provide a tangible understanding and context for analyzing the potential cumulative effects of a project. Based on the current list (August 2024) maintained by the City, cumulative projects would result in approximately 647 residential units, 452,674 of commercial space, a fire station, and 300 hotel rooms. General plans and other

planning documents were used as additional reference points in establishing the cumulative scenario for the analysis.

### Cumulative Impact Analysis Methodology

The area within which a cumulative effect can occur varies by resource. For example, air quality impacts generally affect a large area (such as the regional Air Basin), while traffic impacts are typically more localized. For this reason, the geographic scope for the analysis of cumulative impacts is identified for each resource area in the following chapters.

The analysis of cumulative effects considers several variables, including geographic (spatial) limits, time (temporal) limits, and the characteristics of the resource being evaluated. The geographic scope of each analysis is based on the topography surrounding the project and the natural boundaries of the resource affected, rather than jurisdictional boundaries. The geographic scope of cumulative effects will often extend beyond the scope of the direct effects, but not beyond the scope of the direct and indirect effects of the project.

In addition, each project has its own implementation schedule, which may or may not coincide or overlap with the project's schedule. This is a consideration for short-term impacts from the project. However, to be conservative, the cumulative analysis assumes that all projects in the cumulative scenario are built and operating during the operating lifetime of the project and residential development on the project site that may result from the project.

## 4.4 References

CalGEM (California Geologic Energy Management Division). 2022. Well Finder Map tool. Available at https://maps.conservation.ca.gov/doggr/wellfinder/#openModal/-122.02308/37.02078/13. Accessed March 8, 2022.

# 5 Aesthetics

## 5.1 Introduction

This section describes effects on aesthetics that would be caused by implementation of the project. Information used to prepare this section came from the following resources:

- Project application and related materials
- The study area, also known as the viewshed, is defined as the area from which the project would be seen both on and immediately surrounding the project site. The current condition and quality of aesthetic resources within the study area were used as the baseline against which to compare potential aesthetic impacts of the project.
- The approach used to evaluate the existing aesthetics conditions consisted of the following steps:
    - Reviewing the project application including site plans and elevations, landscape plans, etc.;
    - Identifying key viewpoints of the project from publicly accessible areas such as public roadways; and
    - Determining the level of impact based on project plans.

## 5.2 Determination of Existing Visual Quality

Key viewpoints are selected to be representative of the most critical locations from which the project would be seen from public viewpoints. They are selected based on their usefulness in evaluating existing landscapes and impacts on aesthetics with various levels of viewer sensitivity, in different landscape types and terrain, and from various vantage points. Locations typically considered for the establishment of key viewpoints include those: 1) Along major or significant travel corridors, 2) Along local roads, 3) Along recreational access off-highway vehicle roads and trails, 4) At key vista points, 5) From publicly accessible vantage points within designated wilderness or other protected areas, and 6) From public locations that provide good examples of the existing landscape context and viewing conditions. Private viewpoints are not addressed, consistent with CEQA threshes holds of significance, as described below.

When analyzing existing aesthetic conditions, the elements of visual quality, viewer concern, visibility, number of viewers, and duration of view are considered. These parameters are then factored into an overall rating of viewer sensitivity.

**Visual Quality**. Visual quality is an expression of the visual impression or appeal of a given landscape (e.g., landforms, rock forms, water features, vegetative patterns, and cultural features). Visual quality is rated from low to high. Landscapes rated low are often dominated by visually discordant human alterations. Landscapes rated high generally are memorable because of the way the individual landscape features combine in a coherent and harmonious visual

pattern. Also, those landscapes are typically free from discordant human alterations, so they retain their visual integrity.

**Viewer Concern**. Viewer concern addresses the level of interest or concern (from low to high) of viewers regarding an area's aesthetic values and the potential for visible change to the landscape. Viewer concern is closely associated with viewers' expectations for a given viewshed (i.e., an area of land visible from a fixed vantage point) and reflects the importance placed on the human perceptions of the intrinsic beauty and visual interest of the existing landscape characteristics. Official statements of public values and goals and adopted local public policy pertaining to aesthetics or visual resources also reflect viewers' expectations regarding a visual setting and are given weight in determining levels of viewer concern.

Land uses associated with designated parks, monuments, and wilderness areas; scenic highways and corridors; recreational areas; conservation areas; and residential areas are generally considered to have high viewer concern. However, existing landscape character may temper viewer concern on some State and locally designated scenic highways and corridors though, in general, people driving for pleasure or engaged in recreational activities tend to have high viewer concern.

Travelers on other highways and roads, including those in rural or agricultural areas, may have moderate or high viewer concern depending on viewer expectations as conditioned by regional and local landscape conditions in these areas.

Commercial uses and their occupants, including business parks and hotels, typically have low-to –moderate viewer concern, although some commercial developments have specific requirements related to visual quality, with respect to landscaping, building height limitations, building design, and prohibition.

Industrial uses and their occupants typically have the lowest viewer concern because employees generally work in utilitarian surroundings with relatively low visual value. However, some areas of lower visual quality and degraded visual character may contain views of substantially higher visual quality or interest to the public.

**Visibility**. Visibility is a measure of how well an object can be seen. Visibility depends on the angle or direction of views; viewing distance; extent of visual screening; and topographical relationships between the object and existing homes, streets, or parks. Visibility takes into consideration all obstructions that may be in the sightline including landforms, trees and other vegetation, buildings, transmission poles or towers, general air quality conditions such as haze, and general weather conditions such as fog.

**Number of Viewers**. Number of viewers is a measure of the number of viewers per day who would have a view of a project and can range from low to high. The types of viewers can include residents, motorists and recreationists.

**Duration of View**. Duration of view is the amount of time to view a project site or a visual resource. For example, a high or extended view of a project site is one experienced in two minutes or more. In contrast, a low or brief duration of view is available in a short amount of time — generally less than 10 seconds.

**Viewer Exposure**. Viewer exposure is a function of three elements previously listed: visibility; number of viewers; and duration of view. Viewer exposure can range from low to high. A partially obscured and brief background view for a few motorists represents low viewer exposure, and an unobstructed foreground view from many residences represents a high viewer exposure.

**Visual Sensitivity**. Visual sensitivity is derived from three elements previously listed: visual quality; viewer concern; and viewer exposure and is a concluding assessment of an existing landscape's susceptibility to an adverse visual outcome. A landscape with a high degree of visual sensitivity is able to accommodate only a lower degree of adverse visual change without resulting in a significant aesthetic impact. A landscape with a low degree of visual sensitivity is able to accommodate a higher degree of adverse visual change before exhibiting a significant aesthetic impact. Visual sensitivity can range from low to high.

## 5.3 Scoping Issues Addressed

During the scoping period for the project, no written comments by agencies and the public regarding aesthetics were received.

## 5.4 Environmental Setting

This section presents information on aesthetic conditions in the project site and surrounding area. The current condition and quality of aesthetic resources was used as the baseline against which to compare potential impacts of residential development on the project site accommodated by the project.

### 5.4.1 Regional Landscape

Open space areas offer significant scenic value in and around the City of Scotts Valley. The generally flat valleys along Carbonera Creek, its west branch tributaries, and the Camp Evers tributary form a pocket in the Santa Cruz mountains within which most of the local urbanization has occurred. Hillsides immediately adjacent to these valleys have offered notable views from residential developments along Tabor Drive, Montevalle, Granite Creek, Navarra Drive and Whispering Pines, and forested ridgetops that have remained largely undeveloped and have not been logged are a focal point of scenic views. State Highway 17, which climbs from Santa Cruz in the south into Scotts Valley, does not provide views of the project site. Winding roads through steep redwood forested canyons border the city, including Granite Creek Road, Vine Hill Road, and Bean Creek Road.

### 5.4.2 Project Site

The project site is currently undeveloped but for a few maintenance structures and portable buildings associated with the previous golf course. Other features include two former ponds (now dry), two groundwater wells, and an asphalt parking lot.

The existing topography of the project site varies by approximately 56 feet, between elevation 514 feet in the north near Mt. Hermon Road and 570 feet near the southwestern portion of the project site.

As shown in Figure 5-1: View of the Project Site from Public Roadways, views from Mt. Hermon Road and Lockewood Lane (the only two public roadways surrounding the project site) are largely obscured by surrounding commercial and residential development. As such, viewer concern, viewer exposure, and visual sensitivity are considered to be low.

## 5.5 Applicable Regulations, Plans, and Standards

### 5.5.1 State

There are no officially state designated scenic highways in the County of Santa Cruz; however, Highway 17 is listed as an eligible state scenic highway (Caltrans, 2019). The project site is located approximately one mile west of Highway 17 and is not visible from Highway 17.

### 5.5.2 Local

The following City documents give design policies or guidelines for new construction in the City. These documents are: 1) Scotts Valley General Plan (2023), 2) Zoning Ordinance, 3) 1995 Mt. Hermon Road Downtown Design Guidelines, and 4) Commercial and Industrial Design Review Guidelines. A summary of these documents are described below:

#### Scotts Valley General Plan

The following development-related policies from the Scotts Valley General Plan (2023) would avoid or help reduce impacts associated with the project:

CIC-2 **Guiding Principal – Community Identity and Connections**. Use high-quality design features and amenities through appropriate architecture, landscape, and streetscape designs that enhance the visual appearance of new development in public spaces, including parks and roadways.

OSC-2.5 **Natural Setting Integration**. Protect visual resources by requiring that new development be integrated into the natural setting.

OSC-2.6 **Landscape Screening**. Landscaping, using drought-tolerant and native plants, should be used as part of new development to integrate the man-made environment into the natural backdrop and to screen or soften the visual impact.

OSC-2.7 **Infill Development**. Encourage infill development on vacant land within existing developed areas. Where infill is not feasible, new development should occur adjacent to existing urban areas where services are available or can be easily extended.

OSC-2.8 **Clustering Development**. Where appropriate, encourage clustering of new development through the use of Planned Development (PD) zoning, where applicable, to minimize disturbance of natural features and resources and maximize preservation of open space.

OSC-2.9 **Site Planning**. Give attention to compatibility of site planning and design with the overall scenic quality of Scotts Valley, especially through siting of development and street improvements, and landscaping and sign control restrictions.

OSC-2.12 **Protect and Enhance Natural Environment**. Site planning for new development in the City should be designed to protect and enhance the natural environment.

LU-1.9 **Design Quality**. Encourage new development and redevelopment to incorporate high quality design that enhances the visual character of the community.

M-4.9 **Visual Screening**. Require appropriate landscaping and/or barrier screening in all new projects to screen off objectionable views along roads, streets and highways.

The project site is located immediately adjacent to the east of and partially within a mapped scenic road corridor in the General Plan (2023) Open Space & Conservation Element Figure OSC-5: Viewsheds and Scenic Corridors. Traveling eastbound on Mt. Hermon Road there is one “important vista” located near the Mt. Hermon Road/Lockewood Lane intersection.

### Zoning Ordinance

New construction in the C-S zoning district requires Design Review approval. There are eight standards for Design Review in section 17.50.030D.1.-8 of the Zoning Ordinance. The standards include siting of buildings compared to other buildings in the immediate neighborhood, building mass and proportion, exterior colors and materials, signage, landscaping, parking areas, ingress/egress and site circulation, and fences.

Where residential development is proposed on lots with a slope greater than 10%, they are subject to the development standards as described in Chapter 17.40 HR Hillside Residential Combining District. The HR district is designed to provide for an orderly, harmonious development of the foothills and mountains, resulting in a minimum amount of disturbance of the natural slope; to encourage and provide incentives for excellence in design principles

and engineering techniques; and to provide for a variety of dwelling types where consolidation of parcels and unified development are most appropriate.

#### Mt. Hermon Road Downtown Design Guidelines

The purpose of the Mt. Hermon Road Downtown Design Guidelines is to establish way to unify the Mt. Hermon Road commercial core, create an area inviting to shoppers, protect the natural and man-made features, and accentuate the urban forest theme of the City. The Guidelines include design suggestions to achieve the above goals. The design topics range from access, architectural features, landscaping, public art, signs and lighting.

#### Commercial and Industrial Design Review Guidelines

The purpose of the Commercial and Industrial Design Review Guidelines is to assure that the City's goals and objectives and scenic forest theme are implemented whenever possible. Some goals of the General Plan are to create a park-like community characterized by high quality development, safe and easy pedestrian-bicycle-vehicular access, extensive landscaping, and attractive streetscapes where existing trees and topographic features are incorporated into the project design. Design topics include unifying elements, site planning, concern for pedestrians, parking, lighting, trash enclosures, building bulk-finish-texture-color, roof lines, mechanical equipment, landscaping, fencing, and signs.

## 5.6 Environmental Impacts and Mitigation Measures

### 5.6.1 Significance Criteria

The following significance criteria for aesthetics were derived from the Environmental Checklist in CEQA Guidelines Appendix G. These significance criteria have been amended or supplemented, as appropriate, to address lead agency requirements and the full range of potential impacts related to this project.

An impact of the project would be considered significant and would require mitigation if it would meet one of the following criteria.

- Cause a substantial adverse effect on a scenic vista.
- Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings with a State scenic highway.
- 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?)
- Create a new source of substantial light or glare, which would adversely affect day or nighttime views in the area.

Also given consideration are a number of General Plan goals, policies, or designations that are designed to reduce aesthetic impacts. Conflicts with such laws, ordinances, regulations, and

standards can constitute evidence of a significant aesthetic impact. Lastly, a significant aesthetic impact could occur if the project's incremental aesthetic impact would be cumulatively considerable.

### Impact Assessment Methodology

To determine potential impacts, the impact significance criteria identified above were applied to construction and operation of the project. Impacts are identified as being either short-term or long-term in nature. They are numbered under each impact significance criterion, as are applicable mitigation measures. In addition, the following definitions are used:

An adverse aesthetic (visual) impact occurs within public view when: (1) an action perceptibly changes existing features of the physical environment so that they no longer appear to be characteristic of the subject locality or region; (2) an action introduces new features to the physical environment that are perceptibly uncharacteristic of the region and/or locale; or (3) aesthetic features of the landscape become less visible (e.g., partially or totally blocked from view) or are removed. Changes that seem uncharacteristic are those that appear out of place, discordant, or distracting. The degree of the aesthetic impact depends upon how noticeable the adverse change may be. The noticeability of an aesthetic impact is a function of project features, context, and viewing conditions (e.g., angle of view, distance, primary viewing directions, and duration of view).

The specific factors considered in determining impacts on aesthetics included the following factors:

1. An understanding of the overall visual sensitivity of the project site;
2. The resulting contrast of the potential facilities or activities with existing landscape characteristics;
3. The degree to which the project would dominate the view of the observer;
4. The extent to which project would block views of higher value landscape features; and,
5. An understanding of the overall visual change that would occur in the landscape as a result of development on the project site.

## 5.6.2 Summary of No and/or Beneficial Impacts

The project site is not located within an area designated as having or being within a scenic vista, and therefore there would be no impact. Similarly, the project site is not located within the viewshed of a state-designated scenic highway, and therefore there would be no impact.

### 5.6.3 Impacts of the Project

Impact AES-1: Substantially alter the visual character of the project site and surrounding area.

The project site is located in an existing urban setting consisting of commercial and residential buildings that are one to three stories. Mt. Hermon Road is a four-lane arterial road that fronts a portion of the project site to the north, and Lockewood Lane is a two-lane collector road that fronts a portion of the site to the west. Private residential land uses are located to the southeast, and west beyond Lockewood Lane.

The project consists of a commercial retail area that is set back from Mt. Hermon Road, behind existing commercial uses. The retail area consists of one-story buildings, surface parking and landscaped areas. The buildings would have a "farmhouse" architectural theme incorporating sloped roof and stucco and wood siding, with wood accents such as vertical siding, board and batten, and stone. A majority of the rest of the project site consists of single-family and duplex one- and two-story buildings, as well as two three-story apartment buildings, incorporating a similar architectural theme.

The project would require a Planned Development exception to the City's building heights zoning requirements for the single-family and multi-family residential land uses. The project represents an infill development that is compatible with surrounding land uses. Given the fact that the project site is located within an existing urban setting, the project would not result in a dominant visual change or a new contrast of open space and developed areas compared to existing conditions along Mt. Hermon Road and Lockewood Lane.

Furthermore, as part of the review process for a Planned Development permit, the project's design will be reviewed by the City's Planning Commission to ensure that building materials and colors complement the surrounding visual character, and no bright or contrasting colors would be used. As described in section 17.50.030 – Design review procedures, the project has been reviewed for a wide variety of design issues including: 1) Siting of structures on the property, 2) Materials, colors, proportion, mass and detail, 3) Signage, 4) Landscaping, 5) Parking, 6) Site access, and 7) Building height and access to sunlight.

The site planning and architecture is well-designed and can be considered appropriate for its location. Given the project site's location on a gently sloping hillside, and the fact that grading would integrate with the existing topography, the project would not result in buildings that would substantially alter the visual character from public viewpoints from the surrounding area. The new structures would not block views of any significant visual resources.

Furthermore, given that the project is in an urbanized area, it would not conflict with applicable zoning (as amended as part of the entitlement process) nor other regulations governing scenic quality, including the Scotts Valley General Plan (2023).

Therefore, the project would result in a less than significant impact to the visual character of the project site and surrounding public viewshed. Impacts would be less than significant, and no mitigation measures are required.

### Impact AES-2: Introduce new light and glare to the project site and project area.

The project would result in a greater intensity of uses due to an increased number of structures (residential units and commercial uses) that is typical of an urban density development.

As part of Planned Development requirements per section 17.39.110 of the City Municipal Code, a lighting plan is required as part of the review of a planned development. Per the Site Lighting Plan (Lighting Design Alliance, 12/9/22) submitted by the project applicant, exterior project lighting in the commercial area and adjacent open space area would consist of wall- and pole-mounted fixtures and bollards around the perimeters of buildings, and in parking areas.

Per General Plan Policy LA-43, lighting of commercial areas shall be carefully controlled to the extent necessary for security, safety and identification without interfering with adjoining land uses. Lighting shall be directed away from public rights-of-way and adjacent residential land uses. All exterior light fixtures proposed would be “dark sky-friendly” and would be downward facing. Light intensity from these fixtures would be most intense at the pole with a maximum lumen of 4.0 and dissipate to near zero lumens along the perimeter of the project site.

Because light fixtures would be downward facing and illumination from the project would dissipate near zero lumens at the edge of the project site, the project would not introduce a new significant sources of light and glare to the project area and there impacts would be less than significant.

## 5.6.4 Cumulative Impact Analysis

The geographic context for the analysis of cumulative aesthetic impacts includes areas with views of the project site, as well as the visual character of the wider City of Scotts Valley.

### Impact AES-3: Contribute to cumulatively considerable aesthetic impacts.

All past, present, and reasonably foreseeable future projects are located beyond the immediate project site vicinity. The project would result in a conversion from the vacant and partially natural landscape to a more man-made, built aesthetic character from existing conditions, but would be a low contrast from the visual character of adjacent commercial and residential buildings. The project would be visible from Mt. Hermon Road but combined with other existing and planned projects would not result in significant cumulative aesthetic impacts. impacts would be less than significant.

### 5.6.5 Level of Significance after Mitigation

Table 5 1: Summary of Impacts and Mitigation Measures – Aesthetics summarizes the environmental impacts, significance determinations, and mitigation measures for the project with regard to aesthetics.

**Table 5-1: Summary of Impacts and Mitigation Measures – Aesthetics**

| Impact | Impact Significance | Mitigation |
|---|---|---|
| Impact AES-1: Substantially alter the visual character of the project site and surrounding area. | Less than Significant | None required |
| Impact AES-2: Introduce new light and glare to the project site and project area. | Less than Significant | None required |
| Impact AES-3: Contribute to cumulatively considerable aesthetic impacts. | Less than Significant | None required |

## 5.7 References

California Department of Transportation (Caltrans), 2019. Scenic Highways. Available at: https://dot.ca.gov/programs/design/lap-landscape-architecture-and-community-livability/lap-liv-i-scenic-highways, Accessed March 7,2022.

City of Scotts Valley, 2023. Scotts Valley General Plan.



View from Lockewood Lane




View from Mt. Hermon Road

Source: Kimley-Horn, 2022

**Figure 5-1: View of Project Site from Public Roadways**

Valley Gardens
*EIR*

Not to scale

Kimley»Horn
Expect More. Experience Better.

# 6 Air Quality

## 6.1 Introduction

This section describes effects on air quality from the project pursuant to the project. Information used to prepare this section came from the following resources:

- Project application and related materials
- California Emissions Estimator Model (CalEEMod) projections (see Appendix B: CalEEMod Air Quality Analysis)
- California Air Resource Board (CARB)
- State Office of Environmental Health Hazard Assessment (OEHHA)
- California Environmental Quality Act (CEQA) Air Quality Guidelines
- Monterey Bay Unified Air Resources District (MBARD), CEQA Air Quality Guidelines

## 6.2 Scoping Issues Addressed

During the scoping period for the project, no written comments by agencies and the public regarding air quality were received.

## 6.3 Environmental Setting

### 6.3.1 Climate and Topography

The project site is located within the North Central Coast Air Basin (NCCAB), which includes Monterey County, San Benito County, and Santa Cruz County, comprising an area of approximately 5,159 square miles along the central California coast. The Monterey Bay Air Resources District (MBARD) (formerly the Monterey Unified Air Pollution Control District) is responsible for local control and monitoring of criteria air pollutants throughout the NCCAB.

Climate, or the average weather condition, affects air quality in several ways. Wind patterns can remove or add air pollutants emitted by stationary or mobile sources. Inversion, a condition where warm air traps cooler air underneath it, can hold pollutants near the ground by limiting upward mixing (dilution). Topography also affects the local climate, as valleys often trap emissions by limiting lateral dispersal.

Winds originating in the San Francisco Bay Area Air Basin often transport pollutants into the NCCAB, where surface winds move the pollutants to the eastern part of the NCCAB. For instance, the transport of ozone precursor emissions from San Francisco Bay Area Air Basin through the Santa Clara valley/San Benito River valley plays a dominant role in ozone concentrations measured in San Benito County (MBARD, 2013).

The transport of pollutants can often cause exceedances of air quality standards in the NCCAB. In Santa Cruz County, coastal mountains exert strong influence on atmospheric circulation and result in generally good air quality, although small inland valleys, such as Scotts Valley, with low mountains on two sides have poorer circulation than at the coast. The City of Scotts Valley has a generally mild climate, with temperature averages in the low 70s (Fahrenheit) for highs and the middle 40s for lows. Precipitation averages approximately 14.2 inches per year (1981 to 2010).

The regulatory section below discusses the various buffer zones around sources of air pollution sufficient to avoid adverse health and nuisance impacts on nearby receptors.

### 6.3.2 Air Pollutants of Primary Concern

The air pollutants emitted into the ambient air by stationary and mobile sources are regulated by federal and state laws. These regulated air pollutants are known as "criteria air pollutants" and are categorized into primary and secondary pollutants. Primary air pollutants are those that are emitted directly from sources. Carbon monoxide (CO), reactive organic gases (ROG), nitrogen oxide ($NO_X$), sulfur dioxide ($SO_2$), coarse particulate matter ($PM_{10}$), fine particulate matter ($PM_{2.5}$), and lead are primary air pollutants. Of these, CO, $NO_X$, $SO_2$, $PM_{10}$, and $PM_{2.5}$ are criteria pollutants. ROG and $NO_X$ are criteria pollutant precursors and go on to form secondary criteria pollutants through chemical and photochemical reactions in the atmosphere. Sources and health effects commonly associated with criteria pollutants are summarized in Table 6-1: Air Contaminants and Associated Public Health Concerns.

**Table 6-1: Air Contaminants and Associated Public Health Concerns**

| Pollutant | Major Man-Made Sources | Human Health Effects |
|---|---|---|
| Particulate Matter ($PM_{10}$ and $PM_{2.5}$) | Power plants, steel mills, chemical plants, unpaved roads and parking lots, wood-burning stoves and fireplaces, automobiles and others. | Increased respiratory symptoms, such as irritation of the airways, coughing, or difficulty breathing; asthma; chronic bronchitis; irregular heartbeat; nonfatal heart attacks; and premature death in people with heart or lung disease. Impairs visibility. |
| Ozone ($O_3$) | Formed by a chemical reaction between reactive organic gases/volatile organic compounds (ROG or VOC)[1] and nitrogen oxides ($NO_X$) in the presence of sunlight. Motor vehicle exhaust, industrial emissions, gasoline storage and transport, solvents, paints and landfills. | Irritates and causes inflammation of the mucous membranes and lung airways; causes wheezing, coughing, and pain when inhaling deeply; decreases lung capacity; aggravates lung and heart problems. Damages plants; reduces crop yield. |
| Sulfur Dioxide ($SO_2$) | A colorless gas formed when fuel containing sulfur is burned and when gasoline is extracted from oil. Examples are petroleum refineries, cement | Respiratory irritant. Aggravates lung and heart problems. In the presence of moisture and oxygen, sulfur dioxide converts to sulfuric acid which can damage |

| Pollutant | Major Man-Made Sources | Human Health Effects |
|---|---|---|
| | manufacturing, metal processing facilities, locomotives, and ships. | marble, iron and steel. Damages crops and natural vegetation. Impairs visibility. Precursor to acid rain. |
| Carbon Monoxide (CO) | An odorless, colorless gas formed when carbon in fuel is not burned completely; a component of motor vehicle exhaust. | Reduces the ability of blood to deliver oxygen to vital tissues, affecting the cardiovascular and nervous system. Impairs vision, causes dizziness, and can lead to unconsciousness or death. |
| Nitrogen Dioxide ($NO_2$) | A reddish-brown gas formed during fuel combustion for motor vehicles and industrial sources. Sources include motor vehicles, electric utilities, and other sources that burn fuel. | Respiratory irritant; aggravates lung and heart problems. Precursor to ozone. Contributes to global warming and nutrient overloading which deteriorates water quality. Causes brown discoloration of the atmosphere. |
| Lead (Pb) | Lead is a metal found naturally in the environment as well as in manufactured products. The major sources of lead emissions have historically been motor vehicles (such as cars and trucks) and industrial sources. Due to the phase out of leaded gasoline, metals processing is the major source of lead emissions to the air today. The highest levels of lead in air are generally found near lead smelters. Other stationary sources are waste incinerators, utilities, and lead-acid battery manufacturers. | Exposure to lead occurs mainly through inhalation of air and ingestion of lead in food, water, soil, or dust. It accumulates in the blood, bones, and soft tissues and can adversely affect the kidneys, liver, nervous system, and other organs. Excessive exposure to lead may cause neurological impairments such as seizures, mental retardation, and behavioral disorders. Even at low doses, lead exposure is associated with damage to the nervous systems of fetuses and young children, resulting in learning deficits and lowered IQ. |

[1] Volatile Organic Compounds (VOCs or Reactive Organic Gases [ROG]) are hydrocarbons/organic gases that are formed solely of hydrogen and carbon. There are several subsets of organic gases including ROGs and VOCs. Both ROGs and VOCs are emitted from the incomplete combustion of hydrocarbons or other carbon-based fuels. The major sources of hydrocarbons are combustion engine exhaust, oil refineries, and oil-fueled power plants; other common sources are petroleum fuels, solvents, dry cleaning solutions, and paint (via evaporation).

Source: California Air Pollution Control Officers Association (CAPCOA), *Health Effects*, capcoa.org/health-effects/, accessed March 15, 2023.

Ozone, or smog, is not emitted directly into the environment, but is formed in the atmosphere by complex chemical reactions between ROG and $NO_X$ in the presence of sunlight. The main sources of $NO_X$ and ROG, often referred to as ozone precursors, are combustion processes (including motor vehicle engines) the evaporation of solvents, paints, and fuels, and biogenic sources. Automobiles are the single largest source of ozone precursors in the Basin. Tailpipe emissions of ROG are highest during cold starts, hard acceleration, stop-and-go conditions, and slow speeds. They decline as speeds increase up to about 50 miles per hour (mph), then increase again at high speeds and high engine loads. ROG emissions associated with evaporation of unburned fuel depend on vehicle and ambient temperature cycles. Nitrogen

oxide emissions exhibit a different curve; emissions decrease as the vehicle approaches 30 mph and then begin to increase with increasing speeds.

### Toxic Air Contaminants

Toxic air contaminants (TACs) are airborne substances that can cause short-term (acute) or long-term (chronic or carcinogenic, i.e., cancer causing) adverse human health effects (i.e., injury or illness). TACs include both organic and inorganic chemical substances. They may be emitted from a variety of common sources including gasoline stations, automobiles, dry cleaners, industrial operations, and painting operations. The current California list of TACs includes more than 200 compounds, including particulate emissions from diesel-fueled engines.

CARB identified diesel particulate matter (DPM) as a toxic air contaminant. DPM differs from other TACs in that it is not a single substance but rather a complex mixture of hundreds of substances. Diesel exhaust is a complex mixture of particles and gases produced when an engine burns diesel fuel. DPM is a concern because it causes lung cancer; many compounds found in diesel exhaust are carcinogenic. DPM includes the particle-phase constituents in diesel exhaust. The chemical composition and particle sizes of DPM vary between different engine types (heavy-duty, light-duty), engine operating conditions (idle, accelerate, decelerate), fuel formulations (high/low sulfur fuel), and the year of the engine. Some short-term (acute) effects of diesel exhaust include eye, nose, throat, and lung irritation, and diesel exhaust can cause coughs, headaches, light-headedness, and nausea.

### Ambient Air Quality

Local air districts and CARB monitor ambient air quality to ensure that air quality standards are met, and if they are not met, to also develop strategies to meet the standards. Table 6-2: Current National and State Ambient Air Quality Standards shows the federal and State standards for a number of pollutants.

**Table 6-2: Current National and State Ambient Air Quality Standards**

| Pollutant | Averaging Time | Federal Primary Standards | | California Standard | |
|---|---|---|---|---|---|
| | | Concentration | Attainment Status | Concentration | Attainment Status |
| Ozone ($O_3$) | 1-Hour | --- | N/A [5] | 0.09 ppm | N |
| | 8-Hour | 0.070 ppm | N [4] | 0.070 ppm | N [9] |
| Carbon Monoxide (CO) | 8-Hour | 9.0 ppm | A [6] | 9.0 ppm | A |
| | 1-Hour | 35.0 ppm | A | 20.0 ppm | A |
| Nitrogen Dioxide ($NO_2$ | Annual | 0.053 ppm | A | 0.030 ppm | --- |
| | 1-Hour | 0.10 ppm[11] | U | 0.18 ppm | A |
| Sulfur Dioxide ($SO_2$) | Annual | 0.03 ppm | A | NA | --- |
| | 24-Hour | 0.14 ppm | A | 0.04 ppm | A |
| | 1-Hour | 0.075 ppm | A | 0.25 ppm | A |
| $PM_{10}$ | Annual | NA | --- | 20 µg/m$^3$ | N [7] |
| | 24-Hour | 150 µg/m$^3$ | U | 50 µg/m$^3$ | N |
| $PM_{2.5}$ | Annual | 12 µg/m$^3$ | N | 12 µg/m$^3$ | N [7] |
| | 24-Hour | 35 µg/m$^3$ | U/A | NA | --- |
| Sulfates | 24- Hour | 25 µg/m$^3$ | A | NA | --- |
| Lead | 30-Day Average | NA | A | 1.5 µg/m$^3$ | --- |
| | Calendar Quarter | 1.5 µg/m$^3$ | A | NA | --- |
| | Rolling 3-Month Average | 0.15 µg/m$^3$ | --- | NA | --- |
| Hydrogen Sulfide | 1 Hour | NA | --- | 0.03 ppm (0.15 µg/m$^3$) | U |
| Vinyl Chloride | 24 Hour | NA | --- | 0.01 ppm (26 µg/m$^3$) | --- |
| Visibility Reducing Particles [8] | 8 Hour (10:00 to 18:00 PST) | --- | --- | --- | U |

A = attainment; N = nonattainment; U = unclassified; N/A = not applicable or no applicable standard; ppm = parts per million; µg/m$^3$ = micrograms per cubic meter; mg/m$^3$ = milligrams per cubic meter; – = not indicated or no information available.

1. California standards for ozone, carbon monoxide (except Lake Tahoe), sulfur dioxide (1-hour and 24-hour), nitrogen dioxide, suspended particulate matter - $PM_{10}$, and visibility reducing particles are values that are not to be exceeded. The standards for sulfates, Lake Tahoe carbon monoxide, lead, hydrogen sulfide, and vinyl chloride are not to be equaled or exceeded. If the standard is for a 1-hour, 8-hour or 24-hour average (i.e., all standards except for lead and the $PM_{10}$ annual standard), then some measurements may be excluded. In particular, measurements are excluded that CARB determines would occur less than once per year on the average. The Lake Tahoe CO standard is 6.0 ppm, a level one-half the national standard and two-thirds the state standard.
2. National standards shown are the "primary standards" designed to protect public health. National standards other than for ozone, particulates and those based on annual averages are not to be exceeded more than once a year. The 1-hour ozone standard is attained if, during the most recent three-year period, the average number of days per year with maximum hourly concentrations above the standard is equal to or less than one. The 8-hour ozone standard is attained when the 3-year average of the 4th highest daily concentrations is 0.070 ppm (70 ppb) or less. The 24-hour $PM_{10}$ standard is attained when the 3-year average of the 99th percentile of monitored concentrations is less than 150 µg/m$^3$. The 24-hour $PM_{2.5}$ standard is attained when the 3-year average of 98th percentiles is less than 35 µg/m$^3$. Except for the national particulate standards, annual standards are

| Pollutant | Averaging Time | Federal Primary Standards | | California Standard | |
|---|---|---|---|---|---|
| | | Concentration | Attainment Status | Concentration | Attainment Status |

met if the annual average falls below the standard at every site. The national annual particulate standard for $PM_{10}$ is met if the 3-year average falls below the standard at every site. The annual $PM_{2.5}$ standard is met if the 3-year average of annual averages spatially averaged across officially designed clusters of sites falls below the standard.

3. National air quality standards are set by the EPA at levels determined to be protective of public health with an adequate margin of safety.
4. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm. An area will meet the standard if the fourth-highest maximum daily 8-hour ozone concentration per year, averaged over three years, is equal to or less than 0.070 ppm. EPA will make recommendations on attainment designations by October 1, 2016, and issue final designations October 1, 2017. Nonattainment areas will have until 2020 to late 2037 to meet the health standard, with attainment dates varying based on the ozone level in the area.
5. The national 1-hour ozone standard was revoked by U.S. EPA on June 15, 2005.
6. In April 1998, the Bay Area was redesignated to attainment for the national 8-hour carbon monoxide standard.
7. In June 2002, CARB established new annual standards for $PM_{2.5}$ and $PM_{10}$.
8. Statewide VRP Standard (except Lake Tahoe Air Basin): Particles in sufficient amount to produce an extinction coefficient of 0.23 per kilometer when the relative humidity is less than 70 percent. This standard is intended to limit the frequency and severity of visibility impairment due to regional haze and is equivalent to a 10-mile nominal visual range.
9. The 8-hour CA ozone standard was approved by the Air Resources Board on April 28, 2005, and became effective on May 17, 2006.
10. On January 9, 2013, EPA issued a final rule to determine that the Bay Area attains the 24-hour $PM_{2.5}$ national standard. This EPA rule suspends key SIP requirements as long as monitoring data continues to show that the Bay Area attains the standard. Despite this EPA action, the Bay Area will continue to be designated as "nonattainment" for the national 24-hour $PM_{2.5}$ standard until such time as the Air District submits a "redesignation request" and a "maintenance plan" to EPA, and EPA approves the proposed redesignation.
11. To attain this standard, the 3-year average of the 98th percentile of the daily maximum 1-hour average at each monitor within an area must not exceed 0.100ppm (effective January 22, 2010). The US Environmental Protection Agency (EPA) expects to make a designation for the Bay Area by the end of 2017.
12. On June 2, 2010, the U.S. EPA established a new 1-hour $SO_2$ standard, effective August 23, 2010, which is based on the 3-year average of the annual 99th percentile of 1-hour daily maximum concentrations. The existing 0.030 ppm annual and 0.14 ppm 24-hour $SO_2$ NAAQS however must continue to be used until one year following U.S. EPA initial designations of the new 1-hour $SO_2$ NAAQS.
13. CARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure below which there are no adverse health effects determined.
14. National lead standard, rolling 3-month average: final rule signed October 15, 2008. Final designations effective December 31, 2011.
15. In December 2012, EPA strengthened the annual $PM_{2.5}$ National Ambient Air Quality Standards (NAAQS) from 15.0 to 12.0 micrograms per cubic meter ($\mu g/m^3$). In December 2014, EPA issued final area designations for the 2012 primary annual $PM_{2.5}$ NAAQS. Areas designated "unclassifiable/attainment" must continue to take steps to prevent their air quality from deteriorating to unhealthy levels. The effective date of this standard is April 15, 2015.

CARB monitors ambient air quality at approximately 250 air monitoring stations across the state. Air quality monitoring stations measure pollutant ground-level concentrations (typically, 10 feet above ground level). Depending on whether the standards are met or exceeded, the local air basin is classified as in "attainment" or "non-attainment." Some areas are unclassified, which means no monitoring data are available. Unclassified areas are considered to be in attainment.

Ambient air quality is monitored at seven MBARD-operated monitoring stations located in Salinas, Hollister, Carmel Valley, Santa Cruz, Scotts Valley, Watsonville, and Davenport. In addition, the National Park Service operates a station at the Pinnacles National Monument and an industry consortium operates a station in King City. Table 6-3: Ambient Air Quality Data summarizes the representative annual air quality data for the project site vicinity over the past

three years. The nearest monitoring station to the project site is the Santa Cruz monitoring station (approximately 4.8 miles to the southeast).

**Table 6-3: Ambient Air Quality Data**

| Pollutant | 2021 | 2022 | 2023 |
|---|---|---|---|
| **Ozone (ppm), Worst 1-Hour** | **0.070** | **0.072** | **0.060** |
| Number of days of State exceedances (>0.09 ppm) | 0 | 0 | 0 |
| **Ozone (ppm), 8-Hour Average** | **0.057** | **0.058** | **0.050** |
| Number of days of State exceedances (>0.07 ppm) | 0 | 0 | 0 |
| Number of days of Federal exceedances (>0.07 ppm) | 0 | 0 | 0 |
| **Carbon Monoxide (ppm), Highest 8-Hour Average** | **NA** | **NA** | **NA** |
| Number of days of above State or Federal standard (>9.0 ppm) | NA | NA | NA |
| **Particulate Matter <2.5 microns, μg/m$^3$, Worst 24 Hours** | **90.4** | **17.5** | **14.7** |
| Number of days above Federal standard (>65 μg/m$^3$) | 13 | 0 | 0 |

ppm = parts per million; μg/m$^3$ = micrograms per cubic meter
Measurements taken at the Santa Cruz Monitoring Station located at 2544 Soquel Avenue, Santa Cruz, California 95062 (CARB# 44200).
Source: All pollutant measurements are from the CARB Aerometric Data Analysis and Management system database (arb.ca.gov/adam).

Given that the NCCAB is designated as non-attainment for State standards for ozone and $PM_{10}$, these are the primary pollutants of concern for the NCCAB.

### 6.3.3 Sensitive Receptors

Sensitive populations are more susceptible to the effects of air pollution than the general population. Sensitive receptors in proximity to localized sources of toxics are of particular concern. Land uses considered sensitive receptors include residences, schools, playgrounds, childcare centers, long-term health care facilities, rehabilitation centers, convalescent centers, and retirement homes.

The project site is located in an urban area in City of Scotts Valley. The surrounding land uses are predominantly residential, with some commercial uses to the northeast. The northern boundary of the site is Mt. Hermon Road. Table 6-4: Sensitive Receptors lists the distances and locations of nearby sensitive receptors, which primarily include single- family residences.

**Table 6-4: Sensitive Receptors**

| Receptor Description | Distance and Direction from the Project Site |
|---|---|
| Single-family residential communities | 20 feet west, east, and south |
| Coast Redwoods Montessori | 290 feet northeast |
| Brookdale Scotts Valley Assisted Living | 545 feet northwest |
| Single-family residential community | 720 feet northwest |

## 6.4 Applicable Regulations, Plans, and Standards

This analysis has been prepared pursuant to California Environmental Quality Act of 1970 and associated Guidelines (Public Resources Code 21000 *et seq*. and California Code of Regulations, Title 14, Chapter 3 sections 15000 – 15387) and in accordance with local, State and federal laws, including those administered by MBARD, CARB, and U.S. EPA. The principal air quality regulatory mechanisms include the following:

- Federal Clean Air Act (FCAA), in particular, the 1990 amendments;
- California Clean Air Act (CCAA);
- California Health and Safety Code (H&SC), in particular, Chapter 3.5 (Toxic Air Contaminants) (H&SC Section 39650 et. seq.) and Part 6 (Air Toxics "Hot Spots" Information and Assessment) (H&SC Section 44300 et. seq.).
- MBARD's Rules and Regulations and air quality planning documents:
    - Rule 400 (Visible Emissions), Rule 402 (Nuisance), Rule 425 (Use of Cutback Asphalt)
    - 2017 Triennial Plan Revision - Adopted March 2017 to update the 2008 Air Quality Management Plan
    - 2008 Air Quality Management Plan - Adopted August 2008 for achieving the 2006 California ozone standard
    - 2007 Federal Maintenance Plan - Adopted May 2007 for maintaining the 1997 federal ozone standard
    - 2005 Particulate Matter Plan - Adopted December 2005 for particulate matter made in response to Senate Bill 656.
    - 2008 MBARD California Environmental Quality Act Air Quality Guidelines most recently revised February 2008.

### 6.4.1 Federal and State

The federal and State governments have been empowered by the federal and State Clean Air Acts to regulate the emission of airborne pollutants and have established ambient air quality standards for the protection of public health. U.S. EPA is the federal agency designated to administer air quality regulation, while CARB is the State equivalent in California. Local control in air quality management is provided by CARB through county-level or regional (multi-county) air pollution control districts (APCDs). CARB establishes air quality standards and is responsible for control of mobile emission sources, while the local APCDs are responsible for enforcing standards and regulating stationary sources. CARB has established 14 air basins statewide.

#### Federal Clean Air Act

U.S. EPA is charged with implementing national air quality programs. The agency's air quality mandates are drawn primarily from the federal Clean Air Act (CAA). The CAA was passed in 1963 by the U.S. Congress and has been amended several times. The 1970 CAA amendments strengthened previous legislation and laid the foundation for the regulatory scheme of the 1970s and 1980s. In 1977, Congress again added several provisions, including non-attainment requirements for areas not meeting NAAQS and the Prevention of Significant Deterioration program. The 1990 CAA amendments represent the latest in a series of federal efforts to regulate the protection of air quality in the U.S. The CAA allows states to adopt more stringent standards or to include other pollutants.

##### National Ambient Air Quality Standards

The federal CAA requires U.S. EPA to establish primary and secondary NAAQS for a number of criteria air pollutants. The air pollutants for which standards have been established are considered the most prevalent air pollutants that are known to be hazardous to human health. NAAQS have been established for the following pollutants: ozone ($O_3$), CO, $SO_2$, $PM_{10}$, $PM_{2.5}$, and lead (Pb).

##### Title III of the Federal CAA

As discussed above, hazardous air pollutants (HAPs) are the air contaminants identified by U.S. EPA as known or suspected to cause cancer, other serious illnesses, birth defects, or death. The federal CAA requires U.S. EPA to set standards for these pollutants and reduce emissions of controlled chemicals. Specifically, Title III of the CAA requires U.S. EPA to promulgate National Emissions Standards for Hazardous Air Pollutants (NESHAP) for certain categories of sources that emit one or more pollutants that are identified as HAPs. The federal CAA also requires U.S. EPA to set standards to control emissions of HAPs through mobile source control programs. These include programs that reformulated gasoline, national low emissions vehicle standards, Tier 2 motor vehicle emission standards, gasoline sulfur control requirements, and heavy-duty engine standards.

HAPs tend to be localized and are found in relatively low concentrations in ambient air. However, they can result in adverse chronic health effects if exposure to low concentrations

occurs for long periods. Many HAPs originate from human activities, such as fuel combustion and solvent use. Emission standards may differ between "major sources" and "area sources" of the HAPs/TACs.

Under the federal CAA, major sources are defined as stationary sources with the potential to emit more than 10 tons per year (tpy) of any one HAP or more than 25 tpy of any combination of HAPs; all other sources are considered area sources. Mobile source air toxics (MSATs) are a subset of the 188 HAPs. Of the 21 HAPs identified by U.S. EPA as MSATs, a priority list of six priority HAPs were identified that include diesel exhaust, benzene, formaldehyde, acetaldehyde, acrolein, and 1, 3-butadiene.

While vehicle miles traveled in the United States are expected to increase by 45 percent over the period 2010 to 2050, a combined reduction of 91 percent in the total annual emissions for the priority MSAT is projected for the same time period.

### California Clean Air Act

The California Clean Air Act (CCAA), which was approved in 1988, requires that each local air district prepare and maintain an Air Quality Management Plan (AQMP) to achieve compliance with CAAQS. These AQMPs also serve as the basis for the preparation of the SIP for meeting federal clean air standards for the State of California. CARB administers California's air quality policy. The California Ambient Air Quality Standards (CAAQS) were established in 1969 pursuant to the Mulford-Carrell Act. These standards, included with the NAAQS in Table 6-2: Current National and State Ambient Air Quality Standards, are generally more stringent and apply to more pollutants than the NAAQS. In addition to the criteria pollutants, CAAQS have been established for visibility reducing particulates, hydrogen sulfide, and sulfates.

Like the EPA, CARB also designates areas within California as either attainment or nonattainment for each criteria pollutant based on whether the CAAQS have been achieved. Under the CCAA, areas are designated as nonattainment for a pollutant if air quality data shows that a state standard for the pollutant was violated at least once during the previous three calendar years. Exceedances that are affected by highly irregular or infrequent events such as wildfires, volcanoes, etc. are not considered violations of a State standard, and are not used as a basis for designating areas as nonattainment. The applicable State standards are summarized in Table 6-2: Current National and State Ambient Air Quality Standards.

#### California Ambient Air Quality Standards

The CCAA requires CARB to establish CAAQS. Similar to the NAAQS, CAAQS have been established for the following pollutants: ozone ($O_3$), CO, $NO_2$, $SO_2$, $PM_{10}$, $PM_{2.5}$, lead (Pb), vinyl chloride ($H_2C$=CHCl), hydrogen sulfide ($H_2S$), sulfates ($SO_4^{2-}$), and visibility-reducing particulates. In most cases, CAAQS are more stringent than NAAQS. The CCAA specifies that local air districts should focus particular attention on reducing the emissions from transportation and area-wide emission sources and provides districts with the authority to regulate indirect sources.

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

TACs, referred to as HAPS by the federal CAA, in California are primarily regulated through the Tanner Air Toxics Act (AB 1807) and the Air Toxics Hot Spots Information and Assessment Act of 1987 (AB 2588) (Hot Spots Act). As discussed above, HAPs/TACs are a broad class of compounds known to cause morbidity or mortality (cancer risk). HAPs/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). Because chronic exposure can result in adverse health effects, TACs are regulated at the regional, State and federal levels.

AB 1807 sets forth a formal procedure for CARB to designate substances as TACs. Research, public participation, and scientific peer review are necessary before CARB can designate a substance as a TAC. To date, CARB has identified more than 21 TACs and adopted U.S. EPA's list of HAPs as TACs. In 1998, DPM was added to CARB's list of TACs. Once a TAC is identified, CARB adopts an Airborne Toxic Control Measure for sources that emit that particular TAC. If a safe threshold exists at which no toxic effect occurs from a substance, the control measure must reduce exposure below that threshold. If no safe threshold exists, the measure must incorporate Best Available Control Technology (BACT) to minimize emissions.

The Hot Spots Act requires for existing facilities that emit toxic substances above a specified level to prepare a toxic emissions inventory and a risk assessment if the emissions are significant, notify the public of significant risk levels, and prepare and implement risk reduction measures.

### Diesel Exhaust and Diesel Particulate Matter

Diesel exhaust is the predominant TAC in urban air and is estimated to represent about two-thirds of the cancer risk from TACs (based on the statewide average). According to CARB, diesel exhaust is a complex mixture of gases, vapors, and fine particles. This mixture makes the evaluation of health effects of diesel exhaust a complex scientific issue. Some chemicals in diesel exhaust, such as benzene and formaldehyde, have been previously identified as TACs by CARB, and are listed as carcinogens either under State Proposition 65 or under the Federal Hazardous Air Pollutants programs.

CARB reports that recent air pollution studies have shown an association between diesel exhaust and other cancer-causing toxic air contaminants emitted from vehicles and the overall cancer risk from TACs in California.

Particulate matter emitted from diesel-fueled engines (DPM) was found to compose much of that risk. 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. These regulations include the solid waste collection vehicle (SWCV) rule, in-use public and utility fleets, and the heavy-duty diesel truck and bus regulations. In 2011, CARB approved the latest regulation to reduce emissions of DPM and nitrogen oxides from existing on-road heavy-duty diesel fueled vehicles.

The regulation requires affected vehicles to meet specific performance requirements between 2012 and 2023, with all affected diesel vehicles required to have 2010 model-year engines or the equivalent by 2023. These requirements are phased in over the compliance period and depend on the model year of the vehicle. With implementation of CARB's Risk Reduction Plan, DPM concentrations are expected to be reduced by 85 percent in 2020 from the estimated year-2000 level.[2] As emissions are reduced, risks associated with exposure to emissions also are expected to be reduced.

#### CARB Air Quality and Land Use Handbook

In April 2005, CARB released the final version of its *Air Quality and Land Use Handbook: A Community Health Perspective*. This guidance document is intended to encourage local land use agencies to consider the risks from air pollution before they approve the siting of sensitive land uses (e.g., residences) near sources of air pollution, particularly sources of TACs (e.g., freeway and high traffic roads, commercial distribution centers, rail yards, ports, refineries, dry cleaners, gasoline stations and industrial facilities).

These advisory recommendations include general setbacks or buffers from air pollution sources. Unlike industrial or stationary sources of air pollution, however, the siting of new sensitive land use does not require air quality permits or approval by air districts, and as noted above, the CARB handbook provides guidance only, rather than binding regulations.

#### CAPCOA Health Risk Assessments for Proposed Land Use Projects

The California Air Pollution Control Officer's Association (CAPCOA) is a consortium of air district managers throughout California that provide guidance material to address air quality issues in the State. As a follow up to CARB's 2005 *Air Quality and Land Use Handbook*, CAPCOA prepared the *Health Risk Assessments for Proposed Land Use Projects*. This guidance document was released to ensure that the health risk of projects be identified, assessed, and avoid or mitigated, if feasible, through the CEQA process. The CAPCOA guidance document provides recommended methodologies for evaluating health risk impacts for development projects.

### 6.4.2 Regional

MBARD regulates air quality in NCCAB and is responsible for attainment planning related to criteria air pollutants, as well as for district rule development and enforcement. The district also reviews air quality analyses prepared for CEQA assessments and published the *CEQA Air Quality Guidelines* document (last revised February 2016) for use in evaluation of air quality impacts.

The purpose of these guidelines is to assist in the review and evaluation of air quality impacts from projects that are subject to CEQA. These guidelines are an advisory document intended to

2 CARB. 2000. Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles. https://www.arb.ca.gov/diesel/documents/rrpFinal.pdf

provide lead agencies, consultants, and project proponents with uniform procedures for assessing potential air quality impacts and preparing the air quality section of environmental documents. These guidelines are also intended to help these entities anticipate areas of concern from MBARD in its role as a CEQA lead, commenting and/or responsible agency for air quality.

### Air Quality Management Plan

In accordance with CCAA, MBARD has developed the *2012 Air Quality Management Plan for the Monterey Bay Region* (2012 AQMP). The 2012 AQMP is a transitional plan shifting focus of MBARD's efforts from achieving the 1-hour component of the State ozone AAQS to achieving the 8-hour ozone requirement. The plan includes an updated air quality trends analysis, which reflects both the 1- and 8-hour standards, as well as an updated emission inventory, which includes the latest information on stationary, area and mobile emission sources.

In March 2017, MBARD adopted the *2012-2015 Triennial Plan Revision*, which assesses and updates elements of the 2012 AQMP, including the air quality trends analysis, emission inventory, and mobile source programs. The 2017 AQMP Revision only addresses attainment of the State ozone standard. In 2012, EPA designated the NCCAB as in attainment of the current national 8-hour ozone standard of 0.075 ppm [3].

The following MBARD rules would limit emissions of air pollutants from construction and operation of residential development pursuant to the project:

- *Rule 400 (Visible Emissions)* – Discharge of visible air pollutant emissions into the atmosphere from any emission source for a period or periods aggregating more than 3minutes in any 1 hour, as observed using an appropriate test method, is prohibited.
- *Rule 402 (Nuisances)* - No person shall discharge from any source whatsoever such quantities of air contaminants or other materials which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public; or which endanger the comfort, repose, health, or safety of any such persons or the public; or which cause, or have a natural tendency to cause, injury or damage to business or property.
- *Rule 425 (Use of Cutback Asphalt)* – The use of cutback asphalt (asphalt cement that has been blended with petroleum solvents) is restricted.

3 On October 1, 2015, U.S. EPA adopted a new 8-hour ozone standard of 0.070 ppm. However, U.S. EPA has not yet reviewed recent NCCAB emissions to determine attainment with the current 0.070 ppm standard. Therefore, this attainment status is based upon U.S. EPA's prior 0.075 ppm standard.

- *Rule 426 (Architectural Coatings)* – This rule limits the emissions of ROGs from the use of architectural coatings.

## 6.5 Environmental Impacts and Mitigation Measures

### 6.5.1 Significance Criteria

The following significance criteria for air quality were derived from MBARD's 2008 CEQA Air Quality Guidelines (MBARD, 2008) and are summarized in Table 6-5: MBARD Significance Thresholds for Construction and Operational Emissions.

**Table 6-5: MBARD Significance Thresholds for Construction and Operational Emissions**

| Criteria Air Pollutants and Precursors (Regional) | Construction-Related<br>Average Daily Emissions (pounds/day) | Operational-Related<br>Average Daily Emission (pounds/day) |
|---|---|---|
| Fugitive Particulate Matter ($PM_{10}$)[1] | 82 | 82[2] |
| VOC | -- | 137 |
| Nitrogen Oxides ($NO_X$), as $NO_2$ | -- | 137 |
| Local CO | -- | LOS at intersection/road segment degrades from D or better to E or F or V/C ratio at intersection/road segment at LOS E or F increases by 0.05 or more or delay at intersection at LOS E or F increases by 10 seconds or more or reserve capacity at unsignalized intersection at LOS E or F decreases by 50 or more.<br><br>550[3] |
| Sulfur Oxides ($SO_x$), as $SO_2$ | -- | 150 |

[1] Examples: 1) Construction site with minimal earthmoving exceeding 8.1 acres per day, 2) Construction site with earthmoving (grading, excavation) exceeding 2.2 acres per day.
[2] The District's 82 lb./day operational phase threshold of significance applies only to onsite emissions and project-related exceedances along unpaved roads. These impacts are generally less than significant. On large development projects, almost all travel is on paved roads (0%) unpaved), and entrained road dust from vehicular travel can exceed the significance threshold. Please contact the Air District to discuss estimating emissions from vehicular travel on paved roads. District approved dispersion modeling can be used to refute (or validate) a determination of significance if modeling shows that emissions would not cause or substantially contribute to an exceedance of State and national AAQS.
[3] Modeling should be undertaken to determine if the project would cause or substantially contribute (550 lb./day) to exceedance of CO AAQS. If not, the project would not have a significant impact.

Source: MBARD, 2008.

Short-term construction emission thresholds, as stated in the MBARD 2008 *CEQA Air Quality Guidelines*, involve identifying the level of construction activity that could result in significant temporary impacts if not mitigated. Construction activities (e.g., excavation, grading, on-site vehicles) that directly exceed MBARD criterion for $PM_{10}$ would have a significant impact on local air quality when they are located nearby and upwind of sensitive receptors (MBARD, 2008). Regarding ozone, construction projects using typical equipment that temporarily emits ozone precursors are accommodated in the emission inventories of State and federally required air

quality management plans and would not have a significant impact on ozone concentrations (MBARD, 2008).

If construction-related activities exceed the $PM_{10}$ threshold of 82 pounds, the project would be characterized as contributing substantially to existing violations of CAAQS for $PM_{10}$. In addition to the tabulated thresholds, a project may also have significant adverse impacts on air quality if the project individually or cumulatively results in any of the following:

- Construct with or obstruct implementation of applicable MBARD air quality management plans, polices, or regulations.
- 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.
- Exposure of sensitive receptors to substantial pollutant concentrations.
- Result in other emissions (such as those leading to odors adversely affecting a substantial number of people.

The criteria for assessing cumulative impacts on localized air quality (i.e., CO, $PM_{10}$) are identical to those for individual project operation. The criteria for determining a project's cumulative impact on regional ozone levels depends on consistency with the applicable air quality management plan. Consistency with the MBARD Air Quality Management Plan (AQMP) does not mean that a project would not have a significant project-specific adverse air quality impact. However, inconsistency with the MBARD AQMP is considered a significant cumulative adverse air quality impact.

MBARD guidelines state that odor impacts would be significant if the project would result in the emission of substantial concentrations of pollutants that produce objectionable odors, causing injury, nuisance, or annoyance to a considerable number of persons, or endangering the comfort, health, or safety of the public. If construction or operation of the project would emit pollutants associated with odors in substantial amounts, the analysis should assess the impact on existing or reasonably foreseeable sensitive receptors.

A project would conflict with or obstruct implementation of the 2008 MBARD AQMP and *2012 Triennial Plan Revision* (2012 AQMP Revision) if it is inconsistent with the plan's growth assumptions, in terms of population, employment, or regional growth in VMT. These population forecasts were developed, in part, using data obtained from local jurisdictions regarding projected land uses and population projections identified in community plans. Projects that result in an increase in population that is inconsistent with local community plans would be considered inconsistent with MBARD's AQMP.

### Impact Assessment Methodology

The analysis of air quality impacts conforms to the methodologies recommended in the MBARD's *CEQA Air Quality Guidelines*. The handbook includes thresholds for emissions associated with both construction and operation of projects.

#### Construction Emissions

The regional construction emissions associated with potential residential development on the project site which would be accommodated by the project were calculated using CalEEMod with default inputs for the type and size of proposed land uses, including the types and number of pieces of equipment that would be used on-site during each construction phase and off-site vehicle trips that would result from construction activities on the project site. CalEEMod is a computer model developed by the South Coast Air Quality Management District to estimate air pollutant and greenhouse gas (GHG) emissions from land use development projects and is based on parameters that include the duration of construction activity, area of disturbance, and anticipated equipment use during construction.

The construction activities associated with residential development pursuant to the project would generate diesel emissions and dust. Construction equipment that would generate criteria air pollutants includes excavators, graders, dump trucks, and loaders. It is assumed that this type of equipment would be used during both grading/demolition and construction. It is also assumed that all of the construction equipment used would be diesel-powered.

Complete results from CalEEMod and assumptions can be found in Appendix B: CalEEMod Air Quality Analysis.

#### Operational Emissions

Operational emissions associated with potential on-site development were also estimated using CalEEMod. Operational emissions would comprise mobile source emissions, emissions associated with energy consumption, and area source emissions. Mobile source emissions are generated by the increase in motor vehicle trips to and from the project site associated with operation of a project. Emissions attributed to energy use include electricity and natural gas consumption for space and water heating and cooling. Area source emissions are generated by, for example, landscape maintenance equipment, consumer products, and architectural coatings.

#### Localized Effects

*Toxic Air Contaminants*. MBARD provides guidance for evaluating potential impacts from TACs in its *CEQA Air Quality Guidelines* document. As noted therein, construction equipment or processes could result in significant impacts if emissions at any sensitive receptor would exceed the threshold that is based on the best available data or may result in a cancer risk greater than one incident per 100,000 population.

CARB recommends evaluating potential impacts to sensitive receptors within 1,000 feet of a project site (CARB, 2016). Operational equipment or processes would not result in significant air quality impacts if they would comply with MBARD Rule 1000, which applies to any source that requires a permit to construct or operate pursuant to District Regulation II and has the potential to emit carcinogenic or non-carcinogenic TACs. The rule also requires sources of carcinogenic TACs to install best available control technology and reduce cancer risk to less than one incident per 100,000 population.

Consistent with MBARD recommendations, human health risks from TACs are analyzed based on the presence of mobile equipment that would generate DPM during construction and operation of the project, as well as on the proximity of the nearest sensitive receptors that could be exposed to such.

*CO Hotspots*. Based on MBARD *CEQA Air Quality Guidelines*, a significant CO hotspot impact may occur at:

- Intersections or road segments that operate at LOS D or better that would operate at LOS E or F with project-generated traffic, or
- Intersections that operate at LOS E or F where delay would increase by 10 seconds or more with project-generated traffic.

Where intersections may operate under conditions that could result in a CO hotspot, a significant impact would occur where existing or reasonably foreseeable sensitive receptors would be exposed to the CO hotspot.

### 6.5.2 Summary of No and/or Beneficial Impacts

#### Exposure to Odorous Emissions

The occurrence and severity of odor impacts depends on numerous factors, including the nature, frequency, and intensity of the source; wind speed and direction; and the sensitivity of the receptors. While offensive odors rarely cause physical harm, they can still be unpleasant, leading to considerable distress among the public and often generating citizen complaints to local governments and regulatory agencies. Projects with the potential to frequently expose members of the public to objectionable odors would be deemed to violate the MBARD standards.

MBARD enforces permit and nuisance rules to control odorous emissions from stationary sources. For instance, MBARD Rule 402 (Nuisances) prohibits the discharge of air contaminants or other materials that cause injury, detriment, nuisance, or annoyance to any considerable numbers of persons. Given these regulations, and the fact that there are no odorous emissions existing or proposed on or near the project site, there would be no impact.

### 6.5.3 Impacts of the Project

#### Impact AQ-1: Conflict with MBARD Air Quality Plan.

The MBARD's 2008 CEQA Air Quality Guidelines provides criteria for determining cumulative impacts and consistency. The CEQA Air Quality Guidelines note that a project which is inconsistent with an Air Quality Plan would have a significant cumulative impact on regional air quality. As discussed above, the project is consistent with the Air Quality Management Plan for the Monterey Bay Region. In addition, the project's construction and operation emissions would not exceed MBARD thresholds as noted below.

The NCCAB is currently in non-attainment for State ozone and $PM_{10}$ standards which represents an existing cumulatively significant impact within the NCCAB. Ozone precursors include reactive organic gases (ROG) and NOX. The project would not exceed quantitative thresholds for either of these ozone precursors. Similarly, $PM_{10}$ thresholds also would not be exceeded for construction or operation of the project. Therefore, the project would not make a considerable contribution to this existing, cumulatively significant impact. Impacts would be less than significant and no mitigation is required.

#### Impact AQ-2: Future construction activities would generate dust and exhaust emissions of criteria pollutants and toxic air contaminants.

Construction emissions would include the generation of fugitive dust, on-site generation of construction equipment exhaust emissions, and the off-site generation of mobile source emissions related to construction traffic. Short-term air quality impacts are predicted to occur during grading, and construction operations associated with implementation of the project. Emissions produced during grading and construction activities would cease following completion of the development.

Project construction would last approximately four years (45 months) and would include demolition, site preparation, grading, paving, building construction, and architectural coating. The project would require removal of approximately 2,735 tons of materials, including existing building materials and pavement.

The project will require 49,700 cubic yards of cut, and 51,400 cubic yards of fill; for a net import of 1,700 cubic yards.

Construction equipment includes excavators, rubber-tired dozers, graders, scrapers, trenchers, tractors, and pavers. Exhaust emission factors for typical diesel-powered heavy equipment are based on the California Emissions Estimator Model (CalEEMod) program defaults. Variables factored into estimating the total construction emissions include the level of activity, length of weather conditions, number of construction personnel, and the amount of materials to be transported on- or off-site.

Maximum daily emissions for each year of construction has been quantified based upon the phase durations and equipment types. The analysis of daily construction emissions has been prepared utilizing the California Emissions Estimator Model (CalEEMod). Refer to Appendix B CalEEMod Air Quality Analysis, for the CalEEMod outputs and results. Table 6-6: Project Daily Construction Emissions, presents the anticipated daily construction emissions. Fugitive dust from grading/demolition and construction on the project site would be short-term. Dust larger than ten microns generated by such activities usually becomes more of a local nuisance than a serious health problem. Of particular health concern is the amount of $PM_{10}$ generated as a part of fugitive dust emissions.

## Particulate Matter

MBARD CEQA Guidelines state that construction activities (e.g., excavation, grading, on-site vehicles) that emit 82 pounds per day or more of $PM_{10}$ would have a significant impact on local air quality when they are located nearby and upwind of sensitive receptors. Based on this emissions threshold, construction activity occurring on more than 2.2 acres per day may result in significant $PM_{10}$ emissions (MBARD, 2015).

As shown in Table 6-6: Project Daily Construction Emissions, construction emissions associated with the development of the project would not exceed the 82 lb./day threshold of significance for $PM_{10}$.

**Table 6-6: Project Daily Construction Emissions**

| Emissions Source | Pollutant (pounds/day) | | | | | |
|---|---|---|---|---|---|---|
| | ROG | $NO_x$ | CO | $SO_2$ | $PM_{10}$ Total | $PM_{2.5}$ Total |
| Year 1 | 3.35 | 31.67 | 30.54 | 0.06 | 4.97 | 2.60 |
| Year 2 | 1.53 | 11.04 | 17.59 | 0.03 | 1.14 | 0.54 |
| Year 3 | 1.47 | 10.51 | 17.30 | 0.03 | 1.10 | 0.50 |
| Year 4 | 179.26 | 9.96 | 17.04 | 0.03 | 1.06 | 0.46 |
| **Threshold** | --- | --- | --- | --- | **82** | --- |
| **Exceed Threshold** | **NA** | **NA** | **NA** | **NA** | **No** | **NA** |

Notes:
1. The reduction/credits for construction emission mitigations are based on mitigation included in CalEEMod and as typically required by the MBARD (Basic Control Measures). The mitigation includes the following: replace ground cover on disturbed areas quickly, water exposed surfaces twice daily, and proper loading/unloading of mobile and other construction equipment.
Source: CalEEMod v. 2021 and Appendix B: CalEEMod Air Quality Analysis.

However, based on the proximity of sensitive receptors to the project site, implementation of the following mitigation measures would be required to ensure potential impacts are reduced to a less than significant level for all construction activities on the project site.

## Mitigation for Impact AQ-2

### MM AQ-2.1 Reduce Fugitive Dust

To reduce fugitive dust emissions, and the applicant shall require the following measures to be includes as part of construction grading and building plans:

- Limit grading to 8.1 acres per day and grading and excavation to 2.2 acres per day.
- Water graded/excavated areas and active unpaved roadways, unpaved staging areas, and unpaved parking areas at least twice daily or apply non-toxic chemical soil stabilization materials per manufacturer's recommendations. Frequency should be based on the type of operations, soil and wind exposure.
- Prohibit all grading activities during periods of high wind (more than 15 mph).
- Apply chemical soil stabilizers on inactive construction areas (disturbed lands within construction projects that are unused for at least four consecutive days).
- All disturbed soil areas not subject to revegetation shall be stabilized using approved chemical soil binders, jute netting, or gravel for temporary roads and any other methods approved in advance by MBARD.
- Exposed ground areas that are planned to be reworked for durations longer than 1 month after initial grading shall be sown with a fast germinating, non-invasive grass seed and watered until vegetation is established.
- Plant vegetative ground cover in disturbed areas as soon as possible.
- Use street sweepers, water trucks, or sprinkler systems in sufficient quantities to prevent airborne dust from leaving the project site. Reclaimed (non-potable) water should be used whenever possible;
- Spray dirt stockpile areas daily as needed.
- Place gravel on all roadways and driveways as soon as possible after grading. In addition, construct building pads as soon as possible after grading unless seeding, soil binders, or frequent water application are used.
- Vehicle speed for all construction vehicles shall not exceed 15 mph on any unpaved surface at the construction site.
- All trucks hauling dirt, sand, soil, or other loose materials shall be covered or shall maintain at least 2 feet of freeboard (minimum vertical distance between top of load and top of trailer) in accordance with California Vehicle Code Section 23114.
- Unpaved road travel shall be limited to the extent possible, for example, by limiting the travel to and from unpaved areas, by coordinating movement between work areas rather than to central staging areas, and by busing workers where feasible.
- Install wheel washers where vehicles enter and exit unpaved roads onto streets or wash off trucks and equipment leaving the project site and inspect vehicle tires to ensure they are free of soil prior to carry-out to paved roadways.

- Sweep streets at the end of each day, or as needed, if visible soil material is carried onto adjacent paved roads. Water sweepers with reclaimed water shall be used where feasible.

### Operation Impacts

#### Impact AQ-3: Future long-term operation would generate dust and exhaust emissions of criteria pollutants.

Operational emissions for mixed-use developments are typically generated from mobile sources (burning of fossil fuels in cars); energy sources (cooling, heating, and cooking); and area sources (landscape equipment and household products). Table 6-7: Project Buildout Operational Emissions shows that the project's maximum emissions would not exceed MBARD operational thresholds.

**Table 6-7: Project Buildout Operational Emissions**

| Emission Source | Pollutants (pounds/day) | | | | | |
|---|---|---|---|---|---|---|
| | ROG | $NO_x$ | CO | $PM_{10}$ | $PM_{2.5}$ | $SO_x$ |
| Area | 9.11 | 2.48 | 12.54 | 0.19 | 0.19 | 0.01 |
| Energy | 0.12 | 2.05 | 0.99 | 0.16 | 0.16 | 0.01 |
| Mobile | 12.51 | 8.77 | 83.19 | 14.07 | 3.67 | 0.16 |
| **Emissions Total** | **21.74** | **13.27** | **96.72** | **14.42** | **4.02** | **0.18** |
| MBARD Threshold | 137 | 137 | 550 | 82 | 55 | 150 |
| **Are Thresholds Exceeded?** | **No** | **No** | **No** | **No** | **No** | **No** |

Notes:
Area source emissions include natural gas fuel combustion, landscape fuel combustion, consumer products, architectural coatings, and hearth fuel combustion (i.e., wood stoves, wood fireplaces, natural gas fireplace/stoves). However, for this project no wood-burning fireplaces are allowed.

Source: CalEEMod v. 2021 and Appendix B: CalEEMod Air Quality Analysis.

#### *Mobile Source Emissions*

Mobile sources are emissions from motor vehicles, including tailpipe and evaporative emissions. Depending upon the pollutant being discussed, the potential air quality impact may be of either regional or local concern. For example, ROG, $NO_X$, $PM_{10}$, and $PM_{2.5}$ are all pollutants of regional concern ($NO_X$ and ROG react with sunlight to form $O_3$ [photochemical smog], and wind currents readily transport $PM_{10}$ and $PM_{2.5}$). However, CO tends to be a localized pollutant, dispersing rapidly at the source.

Project-generated vehicle emissions have been estimated using CalEEMod. As shown in Table 16-4: Project Trip Generation, the project would generate 1,974 net new daily trips, with 186 net new trips (69 in and 117 out) occurring during the AM peak hour and 188 net new trips (116 in and 72 out) occurring during the PM peak hour. The project emissions generated by vehicle traffic associated with the project would not exceed established MBARD regional thresholds.

*Energy Source Emissions*

Energy source emissions would be generated as a result of electricity and natural gas (non-hearth) usage associated with the project. The primary use of electricity and natural gas by the project would be for space heating and cooling, water heating, ventilation, lighting, appliances, and electronics. Electric power generating plants are distributed throughout the Basin, and their emissions contribute to the total regional pollutant burden. The net project emissions generated by electricity and natural gas usage associated with the project would not exceed established MBARD regional thresholds.

*Area Source Emissions*

Area source emissions are generally a function of land use (e.g., number of single-family residential units), activity (e.g., fuel use per residential unit), and emission factor (e.g., mass of pollutant emitted per fuel usage). These include the following:

- Hearth fuel combustion. This source includes wood stoves, wood fireplaces, and natural gas-fired stoves. However, for this project no wood stoves or fireplaces are included per MBARD (Rule 201)
- Landscape fuel combustion. This source includes exhaust and evaporative emissions from landscaping equipment including lawnmowers, rototillers, shredders/grinders, trimmers, chain saws, and hedge trimmers, used in residential and commercial applications.
- Consumer products. This source category comprises a wide range of products including air fresheners, automotive products, household cleaners, and personal care products.
- Architectural coatings. This source includes ROG emissions resulting from the evaporation of solvents contained in paints, varnishes, primers, and other surface coatings, from residential and nonresidential structures.

Therefore, impacts of dust, criteria air pollutants, and toxic air contaminants generated by long-term operation of residential development pursuant to the project would be less than significant. Additionally, approval of a future Planned Development application would prohibit the use of wood-burning fireplaces and require the use of low-emitting architectural coatings to further reduce air quality impacts.

Impact AQ-4: Increase carbon monoxide concentrations above State and federal standards.

Local air quality is a major concern along roadways. CO is a primary pollutant, and unlike ozone, is directly emitted from a variety of sources. For this reason, CO concentrations are usually indicative of the local air quality generated by a roadway network and are used as an indicator of its impacts upon the local air quality. Areas of vehicle congestion have the potential to create “pockets” of CO called “hot spots.” These pockets have the potential to exceed the 1-hour CAAQS of 20 parts per million (ppm) and/or the 8-hour CAAQS of 9 ppm.

To identify CO hotspots, MBARD criterion recommends performing a CO hotspot analysis when:

- Intersections or road segments that operate at LOS D or better that would operate at LOS E or F with the project's traffic,
- Intersections or road segments that operate at LOS E or F where the volume-to-capacity (V/C) ratio would increase 0.05 or more with the project's traffic,
- Intersections that operate at LOS E or F where delay would increase by 10 seconds or more with the project's traffic,
- Unsignalized intersections which operate at LOS E or F where the reserve capacity would decrease by 50 or more with the project's traffic. This criterion is based on the turning movement with the worst reserve capacity, or
- Project would generate substantial heavy duty truck traffic or generate substantial traffic along urban street canyons or near a major stationary source of CO.

As shown in Table 16-4: Cumulative and Cumulative + Project Transportation Delay & LOS, the addition of project traffic to the intersection to Mt. Hermon Road/Springs Lakes Drive would result in an average delay increase from 26.9 to 39.4 seconds (a 12.5 second increase) during the PM peak hour, resulting in a change from an acceptable LOS C to unacceptable LOS D.

According to the traffic analysis, the City's Capital Improvement Plan includes a future project to update the signal timings along Mt. Hermon Road to relieve traffic congestion. Implementation of the recommended signal timing devices from Mt. Hermon Road/Lockewood Lane/Skypark Drive to the Mt. Hermon Road/La Madrona Drive/SR 17 Southbound off-ramp intersection would improve operations to LOS C or better in AM and PM peak hours at the intersection of Mt. Hermon Road/Spring Lakes Drive.

Additionally, the addition of project traffic to the intersection to Mt. Hermon Road/La Madrona Drive/SR 17 Southbound off-ramp (a Caltrans facility) would result in an average delay increase from 51.4 to 58.1 seconds (a 6.7-second increase) during the PM peak hour, resulting in a change from an unacceptable LOS D to unacceptable LOS E.

To improve this deficiency, it is recommended that an additional southbound right turn lane be implemented. This mitigation has been identified in the *Scotts Valley Town Center Specific Plan EIR.* This improvement would improve operations to LOS C in the PM peak hour at the intersection of Mt. Hermon Road/La Madrona Drive/SR 17 Southbound off-ramp. Table 16-5: Mitigated Cumulative + Project Transportation Delay & LOS shows mitigated LOS and control delay.

Therefore, the project would not increase traffic volumes at local intersections to cause the LOS of the intersection or roadway segment to deteriorate. The project would not generate a significant number of vehicle trips on Mt Hermon Road and effects related to CO concentrations would be less than significant and no mitigation is required.

### Impact AQ-5: Increase exposure to TACs.

Construction equipment and associated heavy-duty truck traffic generates diesel exhaust which is a known TAC. Diesel exhaust from construction equipment operating at the site poses a health risk to nearby sensitive receptors. However, the use of diesel-powered construction equipment would be episodic and would occur in various phases throughout the project site. Additionally, construction activities would limit idling to no more than five minutes, which would further reduce nearby sensitive receptors' exposure to temporary and variable DPM emissions. Furthermore, even during the most intense year of construction, emissions of DPM would be generated from different locations on the project site rather than in a single location because different types of construction activities (e.g., site preparation and building construction) would not occur at the same place at the same time.

California Office of Environmental Health Hazard Assessment has not identified short-term health effects from DPM. Construction is temporary and would be transient throughout the site (i.e., move from location to location) and would not generate emissions in a fixed location for extended periods of time. For these reasons, DPM generated by project construction activities would not expose sensitive receptors to substantial amounts of air toxics and the project would result in a less than significant impact. Therefore, impacts associated with construction activities would be less than significant and no mitigation is required.

No major existing stationary or area sources of TACs were identified on the project site. As a result, the project would not result in increased exposure of sensitive land uses to localized concentrations of TACs that would exceed MBARD's recommended significance thresholds. Impacts would be adverse, but less than significant.

## 6.5.4 Cumulative Impact Analysis

The geographical area for cumulative air emission impacts is the NCCAB, which includes Santa Cruz County.

### Impact AQ-6: Contribute to cumulatively considerable air quality impacts.

MBARD updated the regional *Air Quality Management Plan* in 2008. The plan includes current air quality data, revises the emission inventory and emission forecasts, proves an analysis of emission reductions needed to meet and maintain State ozone standards, and includes adoption of five stationary source controls to achieve emission reductions. In developing the emission forecasts, the plan accounts for population growth for cities and counties located within the Basin.

The mixed-use development pursuant to the project, as well as past, present, and reasonably foreseeable future, projects would comply with MBARD rules and requirements, and implement all feasible mitigation measures. Adherence to MBARD rules and regulations would alleviate potential impacts related to cumulative conditions. Construction emissions associated

with the project would not result in a cumulatively considerable contribution to significant cumulative air quality impacts.

The MBARD has not established separate significance thresholds for cumulative operational emissions. The nature of air emissions is largely a cumulative impact. As a result, no single project is sufficient in size, by itself, to result in nonattainment of ambient air quality standards. Instead, a project's individual emissions contribute to existing cumulatively significant adverse air quality impacts. The MBARD developed the operational thresholds of significance based on the level above which a project's individual emissions would result in a cumulatively considerable contribution to the Basin's existing air quality conditions. Therefore, a project that exceeds the BAAQMD operational thresholds would also be a cumulatively considerable contribution to a significant cumulative impact.

As shown in Table 6-7: Project Buildout Operational Emissions, the project's operational emissions would not exceed MBARD thresholds. As a result, operational emissions associated with the project would not result in a cumulatively considerable contribution to significant cumulative air quality impacts.

Additionally, the traffic analysis included vehicular trips from all present and future projects in the project vicinity. Therefore, CO hot spot concentrations calculated at these intersections include the cumulative traffic effect. No significant cumulative CO impacts would occur.

Because the project would be required to comply with MBARD rules and requirements, the cumulative impacts of the project would be less than significant.

### 6.5.5 Level of Significance after Mitigation

Table 6-8: Summary of Impacts and Mitigation Measures - Air Quality summarizes the air quality impacts, significance determinations, and mitigation measures for the development pursuant to the project.

**Table 6-8: Summary of Impacts and Mitigation Measures - Air Quality**

| Impact | Impact Significance | Mitigation |
|---|---|---|
| Impact AQ-1: Conflict with implementation of MBARD Air Quality Plan | Less than Significant | None required. |
| Impact AQ-2: Future construction activities would generate dust and exhaust emissions of criteria pollutants and toxic air contaminants. | Less than Significant with Mitigation | MM AQ-2.1: Reduce Fugitive Dust |
| Impact AQ-3: Future long-term operation would generate dust and exhaust emissions of criteria pollutants. | Less than Significant | None required. |
| Impact AQ-4: Increase carbon monoxide concentrations above State and federal standards. | Less than Significant | None required. |
| Impact AQ-5: Increase exposure to TACs | Less than Significant | None required. |
| Impact AQ-6: Contribute to cumulatively considerable air quality impacts. | Less than Significant with Mitigation | MM AQ-2.1: Reduce Fugitive Dust |

## 6.6 References

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# 7 Biological Resources

## 7.1 Introduction

This section describes effects on biological resources that would be caused by potential residential development pursuant to the project. The following discussion addresses existing environmental conditions in the affected area, identifies and analyzes environmental impacts, and recommends measures to reduce or avoid adverse impacts anticipated from project construction and operation. In addition, existing laws and regulations relevant to biological resources are described. In some cases, compliance with these existing laws and regulations would serve to reduce or avoid certain impacts that might otherwise occur with implementation of the project. All graphics for this section are presented at the end of the section.

Information used to prepare this section came from the following resources:

- Aerial photography
- Project application and related materials
- Live Oak Associates, Biological Evaluation Report, April 5, 2022 (Appendix C-1)
- Live Oak Associates, Special Status Plan Surveys, May 2, 2018 (Appendix C-2)
- Entomological Consulting Services, Report on Mount Hermon June Beetle and Other Sandhill Species, August 6, 2004 (Appendix C-3)
- Entomological Consulting Services, Presence-Absence Survey Report on the Endangers Mount Hermon June Beetle, August 5, 2016 (Appendix C-4)
- US Army Corp of Engineers, letter to P. Peterson, Live Oak Associates, regarding Jurisdictional determination for Valley Gardens, November 5, 2018. (Appendix C-5)
- Live Oak Associates, Jurisdictional Status of Golf Course Irrigation Storage Ponds on the Valley Gardens Golf Course, November 6, 2019. (Appendix C-6)
- Email from P. Peterson to Dominic Boitano regarding no regulatory take of the Valley Garden ponds by the Central Coast Water Quality Control Board, January 13, 2020 (Appendix C-7)
- Monarch Consulting Arborists, Tree Inventory, Assessment, and Protection for the Valley Gardens Golf Course, revised May 2024. (Appendix C-8)

## 7.2 Scoping Issues Addressed

During the scoping period for the project, no written comments were received regarding biological resources.

## 7.3 Environmental Setting

This section presents information on biological resources conditions in the project area. The current condition and quality of biological resources was used as the baseline against which to assess impacts of the project.

### 7.3.1 Regional Setting

Scotts Valley is located on the Felton United States Geological Survey (USGS) quadrangle within the San Francisco Bay Area sub region of the California Floristic Province. This region of California is characterized by a Mediterranean climate, which is mild, wet winters and warm, dry summers. The diverse topography of the region results in diverse vegetation types and wildlife habitats, from wet redwood forest to dry oak/pine woodland and chaparral. Intermittent and perennial flowing creeks also traverse the region; creeks in the vicinity of the project site include tributaries to Bean Creek (to the north) and Carbonera Creek (to the south).

The project site is located in a region that supports two locally unique plant and animal habitat types: ponderosa pine forest and sandhill chaparral. These habitat types are closely related to the presence of inland marine sand deposits that were formed in the Miocene period. The marine deposit, known as the Santa Margarita formation, yields loosely consolidated sandy soils intermixed with sandstone beds comprising sand dollars and other fossils. The coarse, sandy soils derived from weathering of the Santa Margarita formation, known as Zayante coarse sands, support a range of vegetation types, many of which are unique to this region. These porous soils dry quickly, creating microclimatic conditions conducive to sand-specialty plants and animals. Many of these species are locally unique, rare or endangered, such as the Mt. Hermon June beetle and Ben Lomond spineflower. The Zayante sandhills are considered to support unique and imperiled plant communities and wildlife habitats. This status is due to its limited geographic distribution within the region, loss of habitat from historic land uses (i.e., sand mining, urban and rural development, and fire suppression), and fragmentation from previous and current development.

### 7.3.2 Vegetation Communities

#### Literature Search

Based on a review by Live Oaks Associates of the California Natural Diversity Database (CNDDB) (CDFW 2016) and based on a prior biological report prepared for the project site by WRA in 2006, it was determined that there were 16 special status plant species that are known to occur, or to once have occurred, in the site's vicinity that could potentially occur on the project site. Information on these species, their legal status, general habitat requirements, and blooming period is provided in Appendix C-1. Seven of these plant species are federally- or state-listed as endangered or threatened, and the remaining nine species occur on CNPS List 1 B ("Plants Rare, Threatened, or Endangered in California and elsewhere") or List 2B ("Plants Rare, Threatened, or Endangered in California, but more common elsewhere").

### Botanical Surveys

A majority of the project site is underlain by Zayante course sand, 5 to 30 percent slopes (NRCS Web Soil Survey 2022), a soil type that is known to support special status plant species in the site's region; however, the majority of the site was previously a developed golf course (now vacant) with manicured turf and ornamental species. As such, Live Oak's focused their survey efforts on areas of the project site, primarily around the perimeter, where remnant patches of native soils and natural vegetation still occur. These areas were visually surveyed on foot during the July 19, 2016, and May 1, 2018, surveys to achieve 100% visual coverage and to conform to the California Department of Fish and Wildlife's (CDFW) 2009 Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities.

All plant species encountered were identified to the taxonomic level necessary to determine whether it was a special status plant species using The Jepson Manual Second Edition (Baldwin et. al. 2012). A list of plant species encountered during the survey is provided in Appendix C-1.

### Biotic Habitats

The Valley Gardens Golf Course site supports formerly manicured turf grass greens and trees, including Monterey pines (*Pinus radiata*) and fan palms (*Washingtonia sp.*) that were planted to divide the greens for the course's nine holes. A former pond, used for irrigation, is also located on the project site. Other developed areas include structures such as the club house, parking lot and driving ranges located in the northwestern portion of the site.

As shown in Figure 7-1: Biotic Habitats, five biotic habitats or land uses are identified on the site: 1) Golf Course Greens, 2) Coast Live Oak Woodland, 3) Developed, 4) Golf Course Pond (dry except after precipitation events since it is a low spot on the property), and 5) Riparian.

#### Golf Course Greens

The vast majority of the site consists of the former golf course greens, and comprised of turfgrasses, as well as ornamental trees and shrubs such as Mexican fan palm (*Washingtonia robusta*). Prior to the golf course closing in 2018, these greens were highly manicured and managed areas. Some ponderosa pines (*Pinus ponderosa*), which are presumed to be original to the site prior to the golf course development are also present scattered within the southern portion of the golf course. Wildlife species observed foraging on the golf course greens and trees included house finches (*Haemorhous mexicanus*), American crows (*Corvus brachyrhynchos*), mourning dove (*Z. macroura*), black phoebe (*Sayornis nigricans*), and European starlings (*Sturnus vulgaris*).

#### Coast Live Oak Woodland

Coast live oak (*Quercus agrifolia*) woodland occurs in the northeast corner of the site, as well as along the southeast, south and southwest boundaries of the site. In addition to coast live oaks, other woody tree, shrub and vine species occurring within these habitats include ponderosa pine, Monterey pine (*Pinus radiata*), Pacific madrone (*Arbutus menziesii*), California blackberry (*Rubus ursinus*), California coffeeberry (*Frangula californica*), poison oak (*Toxicodendron*

*diversilobum*), and French broom (*Genista monspessulana*). The understory layer is mostly covered with sparse grasses and forbs or leaf litter.

Coast live oak woodlands can provide important habitat for a variety of wildlife species. Coast live oaks provide nesting sites and cover for many birds, including raptors, and mammals. Cavity-bearing trees supply food, denning, nesting, and roosting sources. Root systems and woody debris contributes to the structural complexity of the woodland floor and provide foraging areas for small mammals as well as microclimates suitable for amphibians and reptiles. Acorns are a valuable food source for many animal species, including the western gray squirrel (*Sciurus griseus*), California quail (*Callipepla californica*), as well as several species that were observed in the woodland remnants during the December 2021 surveys by Live Oaks Associates, such as the California scrub jay (A*phelocoma californica*), and black-tailed deer (*Odocoileus hemionus columbianus*) (tracks). Because the coast live oak woodlands on the project site are relatively small patches of remnant habitat separated from other natural areas by commercial and residential development, their value for wildlife is considered marginal, although this habitat would provide some nesting and foraging habitat for common small mammals and bird species adapted to human disturbance.

In addition to the common wildlife species observed on the December 2021 site visit, at least five San Francisco dusky-footed woodrat (*Neotoma fuscipes annectens*) nests were observed within woodland located in the northeastern portion of the site behind the commercial center. This species is considered a California species of special concern.

### Riparian

A small patch of riparian habitat is associated with the western edge of the former golf course pond. Trees and shrubs associated with this patch of habitat include arroyo willow (*Salix lasiolepis*) and Pacific blackberry.

### Golf Course Pond

A manmade pond feature occurs on the project site. While the golf course was still operational, the pond was used to store rainwater and well water from an adjacent well for the purpose of irrigating the golf course greens. Since the closure of the golf course, well water is no longer pumped into the pond, and it was mainly dry despite recent winter rainfall in the region. Vegetation observed within the dried pond consisted primarily of upland, ruderal species.

### Developed

Developed areas of the project site include the asphalt parking lot, clubhouse and a driving range located in the northwest portion of the site. A residence also occurs in the southwest portion of the site; however, the residence occurs almost entirely within the canopy of remnant woodland habitat described previously.

### 7.3.3 Special Status Plants and Animals

To determine the potential occurrence of special-status wildlife species, the CDFW RareFind database (CDFW, 2022) for the Felton and Laurel USGS quadrangles was searched. Other documents reviewed for a regional perspective included the *Interim-Programmatic Habitat Conservation Plan (IPHCP) for the Endangered Mt. Hermon June Beetle and Ben Lomond Spineflower* (USFWS, June 2011) and The Sandhills Conservation and Management Plan (McGraw 2004). Previous reports of focused species surveys at the project site by Entomological Consulting Services (2004, 2016, see Appendix C-3 and Appendix C-4) were also reviewed.

Live Oaks Associates also conducted focused surveys for rare plants on the project site in July of 2016 and May of 2018. The results of their findings are included in Appendix C-2.

While most special status animals were considered either absent from or unlikely to occur on the project site, two special status animals were confirmed to be present: 1) the federally endangered Mount Hermon June beetle (MHJB) (*Polyphylla barbata*) and 2) the state species of special concern, San Francisco dusky-footed woodrat (*Neotoma fuscipes annectens*). Due to the presence of the MHJB and its status as federally endangered, this species warrants further discussion.

#### Mount Hermon June Beetle

The MHJB was first described in 1938 from specimens collected on Mount Hermon in Santa Cruz County. Of the approximate 35 species of Polyphylla that occur in North America, the MHJB has one of the most restricted geographic ranges. It is found in association with Zayante sandy soils in the Felton-Scotts Valley-Mt. Hermon-Ben Lomond area of Santa Cruz County, CA. More recently, it has also been found at Bonny Doon and some other outlying areas from this core area of Zayante sandhills. Due to the beetle's limited geographic range and the historical and anticipated loss of habitat within its limited range, the U.S. Fish & Wildlife Service (USFWS) recognized the MHJB as an endangered species in 1997, pursuant to provisions of the federal Endangered Species Act of 1973 (FESA).

The Zayante sandhills support several indigenous plant communities that are preferred by the MHJB, including Silverleaf Manzanita Chaparral with Ponderosa pine, Sand Chaparral, mixed Silverleaf Manzanita Chaparral, Ponderosa pine forest, dense sand parkland and open sand parkland. These plant communities often intergrade to become a mosaic mixture of Ponderosa pine, chaparral, and sparsely vegetated areas of grasses, forbs and subshrubs that is referred to as the sand parkland plant community.

In most years, adults of the MHJB are active on warm evenings from about mid-May through mid-August. Males fly each evening for approximately one hour after dusk in search of females, which are flightless and remain on the soil. Observations of flying males suggest that most flight activity occurs within a few feet above ground.

Although specific life history information for the MHJB is unknown, information from closely related species suggests that most of the beetle's life cycle is spent as a larva or grub that lives

below ground and is a root feeder, presumably on one or more of the plants that are indigenous to the native plant communities. However, both adult and larval MHJB have been found in disturbed areas with non-native vegetation, which suggests they may be generalist root feeders. Larval development is believed to require at least one year, and perhaps as long as two or three years.

### MHJB Reconnaissance Surveys

Reconnaissance surveys of the project site were conducted by Dr. Richard Arnold, Entomological Consulting Services in 2004, and again in 2016. A total of 26 MHJB adults were observed at the project site during the three survey nights in June 2004. Eight of the 24 trap locations yielded no MHJBs on the three survey nights, while 16 traps yielded from 1 to 4 beetles. Traps where MHJBs were not captured were farthest from on-site or off-site Ponderosa pines, whereas those traps where MHJBs were captured were located closest to the on-site or neighboring Ponderosa pine trees.

In contrast, the two control traps operated at the nearby Mt. Hermon cross yielded a total of 107 MHJBs on the same three survey nights. The low numbers of MHJBs observed at the project site indicates that overall habitat quality is poor compared to the prime sand parkland habitat at the control site. According to Dr. Arnold, the few MHJBs observed at the project site were probably associated with the remaining Ponderosa pines.

Due to the absence of the sand parkland plant community at the project site, no suitable habitat for the MHJB was observed. This was likely due to the fact that the fairways and greens were vegetated with a dense cover of turf grass. The only areas of open, loose sand are the sand traps, but these areas lack the food plants of the MHJB. Also, human activity (golfers and maintenance) occurred throughout the year and from dawn to dusk on a daily basis. At night, the greens and fairways were regularly watered using a sprinkler system.

A second three-night survey for MHJB was conducted by Entomological Consulting Services in 2016. Results of this survey indicate that MHJB occurs in two portions of the project site; a northern area measuring 3.2 acres, and a larger, southern area measuring 8.47 acres, for a total of 11.67 acres. The survey results included the following findings:

- Of the 37 traps placed at the golf course only 15 yielded MHJBs;
- 28 (44%) of the 63 MHJBs observed were found at a single trap location; and
- Low numbers of the MHJB were observed on about 38% of the property, while no beetles were observed on about 62%.

Results of the 2016 survey demonstrated that beetle abundance and occupied portions of the project site did not significantly changed since the 2004 survey. MHJB still occurs at low numbers in occupied portions of the course. In 2004, a total of 26 beetles were observed, while 63 were observed during 2016. The 2004 survey had 24 trap locations, whereas in 2016 traps were placed at 37 locations. Dr. Arnold attributed the increase in numbers of beetles observed

during 2016 to the use of more traps rather than an actual increase in population numbers. One trap, located in the southeastern portion of the project site, yielded 44% of the MHJBs observed during the 2016 surveys.

### 7.3.4 Jurisdictional Waters and Wetlands

In November of 2018, the golf course ceased operations and closed, and as a result, the golf course also stopped irrigating their turf grasses and correspondingly stopped pumping water into their irrigation storage ponds.

Live Oak Associates (LOA) conducted a formal wetland delineation of the storage ponds in December 2017 and January 2018. Their delineation was subsequently verified by the U. S. Army Corps of Engineers who determined that, while the ponds met their criteria for wetlands, the ponds were manmade features excavated in uplands and therefore not jurisdictional waters of the US.

In October of 2019, LOA completed a new delineation survey of the golf course irrigation ponds to determine if they met the Regional Water Quality Control Board's (RWQCB) definition of a regulated wetland given they were no longer being artificially filled with water for irrigation. LOA founds that the ponds were completely dry, and that there is no evidence that the ponds receive hydrology from a spring or high-water table. This is confirmed by a groundwater analysis by Geo-Logic Associates which found that the water table is 19.65 feet deep.

LOA concluded that storage ponds no longer appear to meet the definition of a regulated wetland under the RWQCBs current definition of a wetland, which was confirmed by the Central Coast Water Board (email from K. Sanders, January 13, 2020). Documentation regarding these findings can be found in Appendices C-5 through C-7.

## 7.4 Applicable Regulations, Plans, and Standards

### 7.4.1 Federal

#### Federal Endangered Species Act

The Federal Endangered Species Act (ESA) provisions protect federally listed threatened and endangered species and their habitats from unlawful take and ensure that federal actions do not jeopardize the continued existence of a listed species or result in the destruction or adverse modification of designated critical habitat. Under the ESA, "take" is defined as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any of the specifically enumerated conduct." The U.S. Fish & Wildlife Service's (USFWS) regulations define harm to mean "an act which actually kills or injures wildlife." Such an act "may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering" (50 CFR § 17.3).

Critical habitat is defined in Section 3(5)(A) of the ESA as "(i) the specific areas within the geographical area occupied by the species on which are found those physical or biological features (I) essential to the conservation of the species, and (II) which may require special management considerations or protection; and (ii) specific areas outside the geographical area occupied by the species upon a determination by the Secretary of Commerce or the Secretary of the Interior (Secretary) that such areas are essential for the conservation of the species."

The effects analyses for designated critical habitat must consider the role of the critical habitat in both the continued survival and the eventual recovery (i.e., the conservation) of the species in question, consistent with the recent Ninth Circuit judicial opinion, Gifford Pinchot Task Force v. United States Fish and Wildlife Service.

Activities that may result in "take" of individuals are regulated by the USFWS. The USFWS produced an updated list of candidate species December 6, 2007 (72 FR 69034). Candidate species are not afforded any legal protection under ESA; however, candidate species typically receive special attention from Federal and State agencies during the environmental review process.

### Migratory Bird Treaty Act

Raptors (e.g., eagles, hawks, and owls) and their nests are protected under both Federal and State regulations. The Federal Migratory Bird Treaty Act (MBTA) prohibits killing, possessing, or trading in migratory birds except in accordance with regulations prescribed by the Secretary. This act encompasses whole birds, parts of birds, and bird nests and eggs.

### Regulated Habitats

Areas meeting the regulatory definition of "Waters of the U.S." (Jurisdictional Waters) are subject to the jurisdiction of the U.S. Army Corps of Engineers (USACE) under provisions of Section 404 of the Clean Water Act (1972) and Section 10 of the Rivers and Harbors Act (1899). These waters may include all waters used, or potentially used, for interstate commerce, including all waters subject to the ebb and flow of the tide, all interstate waters, all other waters (intrastate lakes, rivers, streams, mudflats, sandflats, playa lakes, natural ponds, etc.), all impoundments of waters otherwise defined as "Waters of the U.S.," tributaries of waters otherwise defined as "Waters of the U.S.," the territorial seas, and wetlands (termed Special Aquatic Sites) adjacent to "Waters of the U.S." (33 CFR, Part 328, Section 328.3).

Construction activities within jurisdictional waters are regulated by the USACE. The placement of fill into such waters must comply with permit requirements of the USACE. No USACE permit would be effective in the absence of State water quality certification pursuant to Section 401 of the Clean Water Act. As a part of the permit process, the USACE works directly with the USFWS to assess potential project impacts on biological resources.

### 7.4.2 State

#### California Endangered Species Act

Provisions of California Endangered Species Act (CESA) protect State-listed Threatened and Endangered species. CDFW regulates activities that may result in "take" of individuals ("take" means "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill"). Habitat degradation or modification is not expressly included in the definition of "take" under the California Fish and Wildlife Code. Additionally, the California Fish and Wildlife Code contains lists of vertebrate species designated as "fully protected" (California Fish & Game Code §§ 3511 [birds], 4700 [mammals], 5050 [reptiles and amphibians], 5515 [fish]). Such species may not be taken or possessed, without an exemption issued by CDFW.

In addition to federal and State-listed species, the CDFW also has produced a list of Species of Special Concern to serve as a "watch list." Species on this list are of limited distribution or the extent of their habitats has been reduced substantially, such that a threat to their populations may be imminent. Species of Special Concern may receive special attention during environmental review under CEQA, but they do not have statutory protection.

Birds of prey are protected in California under the State Fish and Wildlife Code. Section 3503.5 states it is "unlawful to take, possess, or destroy any birds of prey (in the order Falconiformes or Strigiformes) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by this Code or any regulation adopted pursuant thereto." Construction-related disturbance during the breeding season could result in the incidental loss of fertile eggs or nestlings or otherwise lead to nest abandonment. Disturbance that causes nest abandonment and/or loss of reproductive effort is considered "take" by the CDFW.

Under Sections 3503 and 3503.5 of the State Fish and Wildlife Code, activities that would result in the taking, possessing, or destroying of any birds-of-prey, taking or possessing of any migratory nongame bird as designated in the Migratory Bird Treaty Act, or the taking, possessing, or needlessly destroying of the nest or eggs of any raptors or non-game birds protected by the Migratory Bird Treaty Act, or the taking of any non-game bird pursuant to Fish and Wildlife Code Section 3800 are prohibited.

Proposed revisions to Sections 3503 and 3503.5 to clarify the regulations and make them more consistent with the MBTA were posted on August 14, 2015, by the CDFW; one of the revisions removes language regarding nest abandonment caused by projects, to be consistent with MBTA and because it is difficult to determine reasons for nest abandonment at any one site (CDFW 2015).

#### Regulated Habitats

The State Water Resources Control Board is the State agency (together with the Regional Water Quality Control Boards [RWQCB]) charged with implementing water quality certification in California. The project falls under the jurisdiction of the Central Coast Region of the RWQCB.

The CDFW potentially extends the definition of stream to include "intermittent and ephemeral streams, rivers, creeks, dry washes, sloughs, blue-line streams (USGS), and watercourses with subsurface flows. Canals, aqueducts, irrigation ditches, and other means of water conveyance can also be considered streams if they support aquatic life, riparian vegetation, or stream-dependent terrestrial wildlife" (CDFW, 1994).

Activities that result in the diversion or obstruction of the natural flow of a stream; or which substantially change its bed, channel, or bank; or which utilize any materials (including vegetation) from the streambed, may require that the project applicant enter into a Streambed Alteration Agreement with the CDFW.

### 7.4.3 Local

#### Interim-Programmatic Habitat Conservation Plan

The *Interim Programmatic Habitat Conservation Plan for the Endangered Mt. Hermon June Beetle and Ben Lomond Spineflower* (IPHCP) was prepared because numerous private landowners in the City of Scotts Valley and the County of Santa Cruz expressed interest in applying for a permit from USFWS for incidental take of the federally endangered MHJB. The landowners have projects on sites likely to be occupied by both MHJB and Ben Lomond spineflower. USFWS has recommended that the City and County together apply for incidental take permits and develop a regional programmatic HCP for the sandhills. The HCP would streamline local, State, and federal permitting processes.

Consequently, USFWS, the City, and the County developed the IPHCP for MHJB and Ben Lomond spineflower for small development projects in areas with existing, dense residential development. The 2011 IPHCP was to be in effect for five years following the issuance of the requested incidental take permits. The IPHCP is only applicable to parcels currently zoned for residential use by the County or City, which are less than or equal to 1.5 acres in size, and that would result in development not exceeding 15,000 square feet (0.34 acres). Therefore, the IPHCP does not apply to the project site.

#### Scotts Valley General Plan

The following development-related policies from the Scotts Valley General Plan (2023) would avoid or help reduce impacts associated with the project:

OSC-1.15 **Project Biological Resources Impacts**. The City's environmental review process shall be used to determine potential impacts to biological resources of project proposals. Ensure that new development avoids, minimizes, and/or mitigates impacts to biological resources and sensitive habitat.

OSC-1.16 **Biological Survey.** As a part of the environmental review process, require new development proposed within areas of native plants or rare or endangered wildlife habitat to prepare a site-specific survey which identifies the location and type of species present. The development shall be required to mitigate any

potential impacts to such species. Where appropriate, designate those areas as open space.

#### Scotts Valley Tree Protection Regulations

The City of Scotts Valley Zoning Ordinance Section 17.44.080 regulates the removal of protected trees. Section 17.44.080 includes tree protection regulations. Protected trees are defined as:

- Any tree having a main stem or trunk at least 8 inches or greater diameter at breast height (DBH) (25 inches in circumference), located in a hillside residential zone where the slope within 20 feet of where the tree is located exceeds 20 percent;
- Any single-trunk oak tree with a main stem or trunk at least 8 inches DBH (25-inch circumference), or any multi-trunk oak tree with an individual trunk over 4 inches DBH (12-inch circumference);
- Any street tree (defined as any tree within five feet of a public or private street or right of way), regardless of size;
- Any single-trunk tree with a 13-inch or greater DBH (40-inch circumference);
- Any multi-trunk tree with any trunk greater than or equal to 8-inch DBH (25-inch circumference);
- Any tree, regardless of size, required to be planted or preserved as part of a permit approved by the Planning Department, Planning Commission or City Council, or required as a replacement tree for a removed tree; or
- Any Heritage Tree, defined as a tree identified, because of unique quality and/or size, as among the most significant and noteworthy in the city and formally designated by the City Council.

Standard conditions of project approval require the project applicant to implement all measures contained within an arborists report for the protection of existing trees to remain, including but not limited to the required procedures and sequence, required tree replacement, tree preservation and protection, and appraised value of preserved trees in the arborist report.

## 7.5 Environmental Impacts and Mitigation Measures

### 7.5.1 Significance Criteria

The following significance criteria for biological resources were derived from the Environmental Checklist in CEQA Guidelines Appendix G. These significance criteria have been amended or supplemented, as appropriate, to address lead agency requirements and the full range of potential impacts related to this project.

An impact of the project would be considered significant and would require mitigation if it would meet one of the following criteria.

- 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 CDFW or USFWS.
- Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by CDFW or USFWS.
- Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to marshes, vernal pools, etc.) through direct removal, filling, hydrological interruption, or other means.
- Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors or impede the use of native wildlife nursery sites.
- Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinances.
- Conflict with the provisions of an adopted Habitat Conservation Plan (HCP), Natural Communities Conservation Plan (NCCP), or other approved local, regional, or state HCP.

### 7.5.2 Summary of No and/or Beneficial Impacts

#### Riparian Habitat or Other Sensitive Natural Community

The 2019 plant surveys concluded that all plant species observed on the project site consist of common native and non-native plant species and conditions similar to those found in the surveys conducted in 2017 and 2018. Furthermore, the biological communities observed were not considered sensitive natural communities or riparian habitat. Thus, construction and operation of the project would not cause an adverse effect on riparian habitat or other sensitive natural community identified in in local or regional plans, policies, regulations, or by CDFW or USFWS, and therefore there would be no impact.

#### Habitat Conservation Plan

As stated above, the IPHCP is only applicable to parcels currently zoned for residential use by the County or City, that are less than or equal to 1.5 acres in size, and that would result in development not exceeding 15,000 square feet (0.34 acres). Because the IPHCP is not applicable to the project site there would be no impacts associated with conflicts with an existing HCP.

#### Wetlands

As confirmed by Live Oaks Associates and described above, there are no jurisdictional creeks or watercourses or other wetland features on the project site. The detention basin is considered a man-made feature and not subject to regulation. Because the project site has no watercourses within the jurisdiction of either the RWQCB or the USACE, there would be no impact to wetlands.

#### Wildlife Movement Corridors

The project site is undeveloped consisting of grassland and clusters of acacia and oak trees along the perimeter. No special status bird species have been identified nor are expected to occur in the future on the project site. The project site does not contain any stream channels that provide migratory fish habitat. The project site is not known to, or expected to be part of or contain regionally important terrestrial movement corridors that connect to regional open space areas. Therefore, there would be no impacts to wildlife movement corridors.

### 7.5.3 Impacts of the Project

Impact BIO-1: Cause a direct or indirect adverse effect on special-status species.

#### Special-Status Plant Species

Live Oaks Associated conducted focused surveys for rare plant species in summer 2016 and spring 2018 when these species would be blooming and identifiable if present. Because no special status plant species was identified, they are presumed absent and unlikely to colonize the project site in the future. Therefore, the project is not expected to have a significant impact on any special status plant populations.

#### Special-Status Wildlife, Nesting Birds, and Invertebrate Species

Most of the special status animal species known to occur in the region do not have the potential to occur on site because habitats are not suitable for them, landscape barriers would block their access to the project site, and/or the site is located outside of their known range. Species considered to be absent from, or unlikely to occur on, the project site have no appreciable potential to be affected by the project, and no avoidance, minimization, or mitigation measures are proposed for those species.

Based on presence/absence surveys conducted by Dr. Dick Arnold in 2004 and 2016, the endangered Mount Hermon June beetle is present in low numbers on the project site. Impacts resulting in a loss of habitat for this species would be considered a significant impact.

At least five San Francisco dusky-footed woodrat nests were identified within dense woody vegetation in woodland habitat in the northeast corner of the project site. This species is considered a California species of special concern. The loss of a small amount of habitat for this species would be considered less than significant as much better habitat is abundant in the vicinity of the site outside of the developed environs of Scotts Valley. However, potential harm or mortality to individual woodrats, if this habitat is being currently utilized and is impacted by the proposed development, would be considered a significant impact.

The pallid bat, also considered a California state species of special concern, has some potential to forage and roost on the project site. Loss of foraging and roosting habitat for this species would be considered less than significant, as higher quality habitat is abundant in the project region for this species; however, any project activities that result in harm or mortality to individual pallid bats would be considered a significant impact of the project.

No monarch butterflies were observed on the site during Live Oak Associates December 2021 survey and this species is considered unlikely to overwinter on the project site; although trees on the site, including Monterey pines and Monterey cypress, could provide some marginal overwintering habitat for this species, there are no known inland overwintering sites that have been documented in Santa Cruz County, and the project site is outside of the known overwintering range for this species. Therefore, the project is not expected to have a substantial adverse effect on monarch overwintering habitat. However, in the unlikely event that monarch butterflies occur on the site during project construction, construction related harm or mortality to this species may be considered a significant impact of the project.

Implementation of the following mitigation measures would reduce these impacts to less than significant.

### Mitigation for Impact BIO-1

#### MM BIO-1.1 Incidental Take Permit for Mt. Hermon June Beetle

Prior to any ground disturbance within occupied habitat for the Mt. Hermon June Beetle (MHJB), the applicant shall submit documentation, to the satisfaction of the City of Scotts Valley Community Development Department demonstrating issuance of an Incidental Take Permit by the U. S. Fish and Wildlife Service (USFWS) for the MHJB. The issuance of an Incidental Take Permit may necessitate the applicant's preparation and implementation of a Habitat Conservation Plan (HCP) (hereafter referred to as the Plan), or equivalent document to the satisfaction of the USFWS, to offset impacts to federally listed threatened species, as allowed under Section 10(a)1 (b) of the Federal Endangered Species Act. The Plan will likely describe measures to avoid and minimize impacts to individual MHJB during and after construction, as well as compensatory mitigation sufficient to offset the permanent loss of this known occupied MHJB habitat, which may include an endowment to fund the maintenance and monitoring of MHJB habitat in perpetuity.

The USFWS-approved plan may include measures to avoid, minimize and mitigate impacts to these species, including the examples (as described in more detail in Appendix C-1):

- Training of construction personnel
- Control dust
- Fence and sign the perimeter of project impact areas and confine project work to impact areas
- Minimize ground-disturbing activities during the MHJB flight season
- Monitor ground-disturbing activities
- Avoid ground cover the degrades habitat for MHJB
- Utilize native Sandhills plan species in landscaping

- Minimize outdoor lighting

### MM BIO-1.2 Focused Surveys and Relocation Plan for Roosting Bats

#### Conduct Habitat Assessment and Preconstruction Survey

A bat habitat assessment will be conducted by a qualified biologist to identify all trees on the site that have the potential to support roosting bats. Trees and structures determined not to support bat roosting habitat may be removed at any time of year without harm to individual bats. However, any trees identified as providing potential bat roosting habitat will be visually surveyed during a pre-construction survey, as described below.

A pre-construction visual survey of all trees that were determined to provide potential roosting habitat will be conducted no more than seven days prior to any tree/vegetation removal activities to determine whether roosting bats are present. If the biologist determines that no bats are present, then the tree can be removed at any time of year and will not require a two-step removal process. If bats are determined to be present or if use of the tree by bats cannot be determined during the pre-construction survey, then additional measures including night-time emergence surveys, construction-free buffers and/or a two-step tree removal will be implemented, as described below.

#### Two-Step Tree Removal

Two-step removal of trees may be utilized to remove trees identified as currently supporting roosting bats or to remove trees that were determined to provide potential habitat but could not be adequately visually surveyed during the pre-construction survey. However, a two-step tree removal can only be conducted outside of the maternity and over-wintering seasons, i.e., can only be conducted during the periods from March 1 to April 15 or from August 15 to October 15, and only when fair-weather nights are forecasted.

The two-step removal process consists of two consecutive days of work. On Day 1, a qualified biologist would direct a tree trimming crew to trim the tree in such a way as to make the tree less suitable/attractive for bats. To the degree practicable, removed branches should be chipped nearby. The disturbance caused by the noise and vibration of the tree trimming and chipping during Day 1 would serve to encourage any bats using the tree to vacate their roosts. The following day, the tree would be completely removed. A qualified biologist does not need to be present during the Day 2 tree removal activities. To the extent practicable, Day 1 activities should occur in the afternoon or early evening and Day 2 activities should occur during morning hours.

#### Nighttime Emergence Survey

Alternately, for any trees that could not be adequately visually surveyed during the pre-construction survey, a nighttime emergence survey can be conducted by a qualified biologist on a fair-weather night during the volant season (March 1-October 15) to determine if bats are present. If bats are found to be absent, the tree can be removed; if bats are found to be

present, and it is within the maternity season (April 15-August 15), further investigation must occur to determine whether a maternity colony is roosting in the tree. If bats are found to be present and it is outside of the maternity season (March 1 through April 14 or August 16 through October 15), the two-step removal process could be utilized to remove the tree, as described above.

### Construction-free Buffers

If a maternity colony or overwintering colony is identified on the site, then a construction-free buffer will be established around the tree(s) and remain in place until it has been determined that the colony is no longer active. Tree removal should occur between March 1 and April 14 or between August 16 and October 15, as described above, utilizing the two-step removal method to avoid interfering with an active nursery and/or overwintering bats.

**MM BIO-1.3 Focused Surveys and Relocation Plan for Dusky-Footed Woodrats**

### Pre-Construction Survey

A qualified biologist will conduct a pre-construction survey for San Francisco dusky-footed woodrat nests no more than 30 days and no less than 14 days prior to the onset of construction activities. This survey timing allows for the scheduling of woodrat nest deconstruction. The survey will encompass all construction zones and surrounding lands within 50 feet. If the results of focused surveys are negative, no further mitigation is required. If surveys do find the San Francisco dusky-footed woodrat present, the applicant shall prepare a plan to avoid and minimize impacts of the project on the San Francisco dusky-footed woodrat, as described below.

### Nest Deconstruction and Relocation

Identified nests will be avoided, where possible. If avoidance is not possible, a qualified biologist shall prepare and submit a nest relocation plan to the CDFW for approval prior to the deconstruction and relocation of any nest(s). The project applicant shall submit documentation to the satisfaction of the Community Development Department demonstrating approval by the California Department of Fish and Wildlife (CDFW) of the relocation plan for the San Francisco dusky-footed woodrat.

The CDFW approved plan would likely include manually deconstructing any nests that cannot be avoided. This deconstruction will be conducted by a qualified biologist (approved by CDFW) likely when helpless young are not present, typically during the non-breeding season (October-January). If practicable, any woodrat nests that are deconstructed as per the above shall be reconstructed on the site within appropriate habitat that will not be impacted by the project.

### Construction-free Buffers

If it is determined during the pre-construction survey that young may be present, a suitable buffer depending on the timing within the breeding season (ranging from 15-50 feet) will be

established around the nest and maintained during construction until the young are independent and have successfully moved from the nest on their own.

### MM BIO-1.4 Focused Surveys and Relocation Plan for Monarch Butterfly

#### Pre-construction Surveys and Avoidance

Surveys for monarch butterflies in early spring are warranted to detect active aggregations (defined as a group of over ten Monarch butterflies present for more than a week) on the site. This survey timing allows for detecting Monarchs that typically overwinter till February, making early spring an appropriate time to identify winter roosts. If an active aggregation is present on the project site, all construction, grading, and construction-related noise must be seasonally timed to avoid impacts to aggregating monarch butterflies. If work must occur during the overwintering season (generally between October and March), an approved biologist must survey all habitat trees (e.g., Monterey cypress, coast live oak) within 100 feet of the development area to verify use by monarchs.

If any areas on the site are found to serve as a monarch butterfly aggregation site, indirect impacts must be minimized to the extent practicable. Construction within 100 feet of an aggregation must be delayed until the butterflies abandon the aggregation. With authorization of an approved biologist, construction activities may occur within 100 feet of aggregations under the direction of a biological monitor on the site. Surveys must be conducted in favorable conditions to identify any monarch aggregations within 100 feet of the area proposed for disturbance seven days before construction activities commence.

If no aggregations are observed, no further mitigation is required. If monarch aggregations are detected, a temporary fence must be installed along the outer boundary of the buffer zone prior to and during any grading and construction activities on the site.

#### Plan Requirements and Timing

Before the City issues grading or building permits, the project applicant shall submit written documentation that construction and grading is occurring outside the winter roosting season, or that monarch surveys have been conducted, and buffer requirements specified above are in place (if applicable). The designated biologist shall prepare and submit a written report of the findings of the pre-construction survey to resource agencies and Scotts Valley for review prior to finalization. This measure, including the fencing location, shall be incorporated into the grading plans for the project.

#### Monitoring

The project applicant shall provide written compliance before the City issues any grading or building permit(s) and designate a biological monitor to conduct recurrent site inspections to ensure compliance throughout the construction period if monarch butterflies are present.

### Impact BIO-2: Cause a direct or indirect adverse effect on native trees

Direct impacts to trees would occur through removal and during project construction. Indirect impacts to trees include disturbance to trees from grading and construction activities that may affect trees or their roots directly from mechanical damage or indirectly due to alterations in soil structure, drainage, microbiology, etc., and tree removal for clearance of land for construction and grading.

According to the Tree Inventory Assessment by Monarch Consulting Arborists (May 2024, see Appendix C-8), there are 579 trees comprised of 35 different species with coast live oak (*Quercus agrifolia*) and Mexican fan palm (*Washingtonia robusta*) being the most abundant. Most of the trees are in good or fair condition with forty-two percent (42%) good and forty-five percent (45%) fair. Forty-nine percent (49%) have good suitability for retention and the remaining fifty-one percent (51%) either fair, poor or they are dead.

Four-hundred and thirty-five (435) trees would be highly impacted and caused to be removed. The remaining one-hundred and thirty-five (135) trees would either be moderately affected or not impacted and are to be retained and protected. Thirteen trees recently died and some were removed for fire safety but were included in the inventory. The remaining one-hundred and forty-two (142) trees would either be moderately affected or not impacted and are to be retained and protected. Of the trees to be removed one-hundred and seventy (170) trees consist of over planted Mexican fan palms or trees in poor condition with poor suitability. Most of the tree protection for this project would require encompassing large groups of trees and few individuals at to be determined radii. Many are located around the perimeter.

The loss of trees regulated by the City's Tree Protection Regulations would require a Tree Removal Permit from the City processed concurrently with the other requested entitlements. Pursuant to the Tree Protection Regulations, the Tree Removal Permit, inclusive of Planning Commission approval for removal of Heritage Trees, if required, would be obtained and submitted to Scotts Valley Building Department prior to approval of Improvement Plans, issuance of grading permits, and/or any clearing, grading, or excavation work on the project site.

Per the City's Tree Protection Regulations, the applicant would be required to provide for the planting of two trees for each "protected" tree removed (2:1 ratio). As part of the Planned Development review process, the project applicant will be required to prepare a tree protection plan to indicate the locations and types of tree protection to be implemented throughout the pre-construction, construction, and landscape phases of the project. The final landscape plans will identify a replanting plan for protected trees that meet or exceed City requirements.

Because the project will be required to comply with the requirements as defined in the City's Tree Protection Regulations per Section 17.44.080 of the City of Scotts Valley Zoning Ordinance, impacts from tree removal would be less than significant and no mitigation is required.

### 7.5.4 Cumulative Impact Analysis

The geographic extent for the analysis of cumulative impacts related to biological resources includes the Santa Cruz County region. This area may also support core, critical, or unique populations essential to recovery and long-term survival of these species.

Impact BIO-3: Contribute to cumulatively considerable effects on biological resources.

As described above, the project would result in potential impacts to the Mount Herman June Beatle, the San Francisco Dusky-foot Woodrat, Pallid and roosting bats, and monarch butterflies. Implementation of MM BIO-1.1 through MM BIO-1.4 would reduce the project's contribution to less-than-cumulatively considerable.

Regarding the effects of tree removal or construction near preserved trees, as stated above, the project would result in a loss of "protected" trees per the City's Tree Protection Regulations would require a Tree Removal Permit from the City processed concurrently with the other requested entitlements. Past, present, and reasonably foreseeable future projects within the City of Scotts Valley are also required to adhere to the provisions of the Tree Protection Ordinance. Therefore, cumulative impacts to native trees would be less than significant.

### 7.5.5 Level of Significance after Mitigation

Table 7-1: Summary of Impacts and Mitigation Measures – Biological Resources summarizes the environmental impacts, significance determinations, and mitigation measures for the project with regard to biological resources.

**Table 7-1: Summary of Impacts and Mitigation Measures – Biological Resources**

| Impact | Impact Significance | Mitigation |
|---|---|---|
| Impact BIO-1: Cause a direct or indirect adverse effect on special-status species. | Less than Significant with Mitigation | MM BIO-1.1: Incidental Take Permit for Mt. Hermon June Beetle<br>MM BIO-1.2: Focused Surveys and Relocation Plan for Roosting Bats<br>MM BIO-1.3: Focused Surveys and Relocation Plan for Dusky-Footed Woodrats<br>MM BIO-1.4: Focused Surveys and Relocation Plan for Monarch Butterfly |
| Impact BIO-2: Cause a direct or indirect adverse effect on native trees. | Less than Significant | None. |
| Impact BIO-3: Contribute to cumulatively considerable effects on biological resources. | Less than Significant with Mitigation | MM BIO-1.1: Incidental Take Permit for Mt. Hermon June Beetle<br>MM BIO-1.2: Focused Surveys and Relocation Plan for Roosting Bats |

| Impact | Impact Significance | Mitigation |
|---|---|---|
| | | MM BIO-1.3: Focused Surveys and Relocation Plan for Dusky-Footed Woodrats<br>MM BIO-1.4: Focused Surveys and Relocation Plan for Monarch Butterfly |

## 7.6 References

City of Scotts Valley, 2023. Scotts Valley General Plan.

Live Oak Associates, Biological Evaluation Report, April 5, 2022 (Appendix C-1)

Live Oak Associates, Special Status Plan Surveys, May 2, 2018 (Appendix C-2)

Entomological Consulting Services, Report on Mount Hermon June Beetle and Other Sandhill Species, August 6, 2004 (Appendix C-3)

Entomological Consulting Services, Presence-Absence Survey Report on the Endangers Mount Hermon June Beetle, August 5, 2016 (Appendix C-4)

US Army Corp of Engineers, letter to P. Peterson, Live Oak Associates, regarding Jurisdictional determination for Valley Gardens, November 5, 2018. (Appendix C-5)

Live Oak Associates, Jurisdictional Status of Golf Course Irrigation Storage Ponds on the Valley Gardens Golf Course, November 6, 2019. (Appendix C-6)

Email from P. Peterson to Dominic Boitano regarding no regulatory take of the Valley Garden ponds by the Central Coast Water Quality Control Board, January 13, 2020 (Appendix C-7)

Monarch Consulting Arborists, Tree Inventory, Assessment, and Protection for the Valley Gardens Golf Course, revised December 2022. (Appendix C-8)




Source: Live Oak Associates, Inc., 2021

**Figure 7-1: Biotic Habitats**

Valley Gardens

*EIR*

Not to scale

Kimley»Horn

# 8 Cultural & Tribal Cultural Resources

## 8.1 Introduction

This chapter describes effects on cultural and tribal cultural resources that could be caused by implementation of the project. The following discussion addresses existing environmental conditions in the affected area, identifies and analyzes environmental impacts, and recommends measures to reduce or avoid adverse impacts anticipated from project construction and operation.

In addition, existing laws and regulations relevant to cultural and paleontological resources are described. In some cases, compliance with these existing laws and regulations would serve to reduce or avoid certain impacts that might otherwise occur with implementation of the project.

The term “cultural resources” encompasses historic, archaeological, and paleontological resources, and burial sites. It includes:

**Historic Resources**: Historic resources are associated with the recent past. In California, historic resources are typically associated with the Spanish, Mexican, and American periods in the State’s history.

**Archaeological Resources**: Archaeology is the study of prehistoric human activities and cultures. Archaeological resources are generally associated with indigenous cultures.

**Paleontological Resources**: Paleontology is the study of plant and animal fossils.

**Burial Sites**: Burial sites are formal or informal locations where human remains, usually associated with indigenous cultures, are interred.

The term “tribal cultural resources” are either of the following:

1. Sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe that are either of the following:
   (A) Included or determined to be eligible for inclusion in the California Register of Historical Resources.
   (B) Included in a local register of historical resources as defined in subdivision (k) of Section 5020.1 of the Public Resources Code.
2. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Section 5024.1.

This section is based upon, and summarizes, the following resources:

- Pacific Legacy, *Extended Phase I Cultural Resources Report for the Valley Gardens Project*, February 2023 (Appendix D)
- City of Scotts Valley, *Scott Valley General Plan*, 2023.

### 8.1.1 Scoping Issues Addressed

During the scoping period for the project, no written comments by agencies and the public regarding cultural resources were received.

## 8.2 Environmental Setting

This section presents information on cultural and tribal resources conditions in the project site and vicinity. The current condition and quality of cultural and tribal resources are used as the baseline against which to compare impacts of the project.

### 8.2.1 Historical Resources

The project site is largely vacant and does not contain any historic resources.

### 8.2.2 Ethnographic Setting

The Ohlone Indians inhabited the San Francisco Bay region from the Golden Gate south to Monterrey since at least A.D. 500, and the earlier radiocarbon dates of pre-Ohlone natives reach 12,000 years before present (B.P.). The Ohlone were hunter-gatherers who settled in semi-sedentary villages organized in basic tribelets consisting of 100 to 250 members. Each tribelet was an autonomous unit with three or more permanent villages, as well as smaller villages in close proximity. Acorns were a primary food source, and other important resources included plant foods, land animals, and the marine sources of the Monterey Bay (such as salmon and steelhead). Shellfish processing sites were established above shores where abalone, mussels, clams, and tide pool resources were gathered.

The Ohlone were also semi-agricultural. They pruned and seeded some plants seasonally, stored acorns (and other foods) for later consumption and burned woodland grassbelts to increase animal production.

### 8.2.3 Project Site Setting

#### Geomorphology and Soils

The project site is located on the southwestern margin of Scotts Valley, where steeper, erosional hillslopes of pre-Quaternary age sandstone transition to Holocene-age valley margin footslopes and the valley floor.

Lower portions of the project site may include lacustrine deposits from a previously documented early Holocene and late Pleistocene lake (“Lake Scott”) that inundated much of the valley floor (Cartier 1993), leaving extensive peat deposits after its desiccation, probably sometime during the early to middle Holocene. However, these geomorphic features have

likely been obscured or destroyed by recent suburban development and associated earth moving activities since the early- to mid-20th century. There is likely to have been significant earth-moving activities associated with the golf course construction and maintenance, including constructing elevated locations, excavating ponds and sand-traps, and grading fairways, greens, and access routes.

#### Potential for Buried Archaeological Resources

A cultural resources sensitivity study (Edwards and Simpson-Smith 1983) was prepared for the City of Scotts Valley to assist with land use planning and development and represents an early effort to qualitatively model archaeological site location probability in the project site. Their study looked at the available cultural resource data, combined with environmental and geological data, which would indicate areas of cultural resource sensitivity depicted as binary categories of high or low sensitivity. Their sensitivity map indicates high sensitivity for the current project site, although the study does not differentiate between surface and buried sensitivity. The Scotts Valley General Plan (2023) Figure OSC-6 Cultural Resource Areas shows roughly the southeastern third of the project site as within a Low Sensitivity Zone and the remainder of the project site within a High and Moderate Sensitivity Zone.

Two previously recorded cultural resources have been identified partially within the project site; namely P-44-000092 / CA-SCR-88/H and P-44-000493 / CA-SCR-343. As further described in Appendix D, very few site constituents (artifacts) were found and consisted of Native American sparse lithic scatter with midden (e.g., fire cracked rock, chert flakes and “waste flakes”).

## 8.3 Applicable Regulations, Plans, and Standards

### 8.3.1 Federal

#### National Register of Historic Places Eligibility

The National Historic Preservation Act of 1966 (as amended through 2000) authorizes the National Register of Historic Places (NRHP), a program for the preservation of historic properties (“cultural resources”) throughout the Nation. The eligibility of a resource for NRHP listing is determined by evaluating the resource using criteria defined in 36 CFR 60.4 as follows:

The quality of significance in American history, architecture, archaeology, and culture is present in districts, sites, buildings, structures, and objects of state and local importance that possess integrity of location, design, setting, materials, workmanship, feeling, association, and:

- That are associated with events that have made a significant contribution to the broad patterns of our history;
- That are associated with the lives of persons significant in our past;
- That embody the distinctive characteristics of a type, period, or method of construction;
- That represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or,

- That have yielded, or may be likely to yield, information important to prehistory or history.

Unless a site is of exceptional importance, it is not eligible for listing in the NRHP until 50 years after it was constructed.

All properties change over time. Therefore, it is not necessary for a property to retain all its historic physical features or characteristics in order to be eligible for listing on the NRHP. The property must, however, retain enough integrity to enable it to convey its historic identity; in other words, to be recognizable to a historical contemporary. The National Register recognizes seven aspects or qualities that, in various combinations, define integrity:

**Location** – the place where the historic property was constructed or the place where the historic event occurred.

**Design** – the combination of elements that create the form, plan, space, structure, and style of a property.

**Setting** – the physical environment of a historic property.

**Materials** – the physical elements that were combined or deposited during a particular period of time and in a particular pattern or configuration to form a historic property.

**Workmanship** – the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory.

**Feeling** – a property's expression of the aesthetic or historic sense of a particular period of time.

**Association** – the direct link between an important historic event or person and a historic property (National Park Service, 1990).

To retain historic integrity a property will always possess several, and usually most, of these aspects. In order to properly assess integrity, however, significance (why, where, and when a property is important) must first be fully established. Therefore, the issues of significance and integrity must always be considered together when evaluating a historic property.

### Executive Order 11593 (May 13, 1971), 36 Code of Federal Regulations, Section 8921 as incorporated into Title 7, United States Code

Executive Order 11593, Protection of the Cultural Environment, orders the protection and enhancement of the cultural environment through providing leadership, establishing State offices of historic preservation, and developing criteria for assessing resource values.

### American Indian Religious Freedom Act, Title 42, United States Code, Section 1996

The American Indian Religious Freedom Act protects Native American religious practices, ethnic heritage sites, and land uses.

#### Native American Graves Protection and Repatriation Act (NAGPRA) (1990), Title 25, United States Code

Native American Graves Protection and Repatriation Act (NAGPRA) defines “cultural items,” “sacred objects,” and “objects of cultural patrimony;” establishes an ownership hierarchy; provides for review; allows excavation of remains under certain conditions but stipulates return of the remains according to ownership; sets penalties for violations; calls for inventories; and provides for return of specified cultural items.

### 8.3.2 State

#### CEQA, Archaeological Resources

CEQA and the CEQA Guidelines contain specific standards for determining the significance of impacts to archaeological sites (PRC §21083.2; 14 CCR §15064.5(c)). If the lead agency determines that the project may have a significant effect on unique archaeological resources, the EIR must address those archaeological resources (PRC §21083.2(a)). A “unique archaeological resource” is defined as an “archaeological artifact, object, or site” that, without merely adding to the current body of knowledge:

- Contains information needed to answer important scientific research questions and in which there is a demonstrable public interest;
- Has a special or particular quality such as being the oldest of its type or the best available example of its type; or
- Is directly associated with a scientifically recognized important prehistoric or historic event or person. (PRC §21083.2(g)).

Under CEQA, significant impacts on non-unique archaeological resources need not be addressed in an EIR. (PRC §21083.2(a), (h)).

The limitations in PRC §21083.2 relating to unique archaeological resources do not apply to archaeological sites that qualify as “historical resources.” (PRC §21083.2(l)). If a lead agency finds that an archaeological site is a historical resource, impact assessment is governed by PRC §21084.1, which provides standards for identification of historical resources (14 CCR §15064.5(c)(2). See §§13.58, 20.94-20.98). The CEQA Guidelines also provide that public agencies should seek to avoid effects that could damage a "historical resource of an archaeological nature" when it is feasible to do so (14 CCR §15126.4(b)(3)).

#### CEQA, Historic Resources

CEQA and the CEQA Guidelines contain specific standards for determining the significance of impacts on “historical resources” (PRC §21084.1, 14 CCR §15064.5). A resource listed in the California Register of Historical Resources or determined by the State Historical Resources Commission to be eligible for listing in the Register, must be treated as an “historical resource” for purposes of CEQA. PRC §21084.1; 14 CCR §15064.5(a)(1). A resource designated as historically significant in a local register of historical resources or identified as significant in an approved historical resources survey, is presumed to be significant. The presumption of

significance may be overcome if the agency concludes, based on a preponderance of the evidence, that the site is not historically or culturally significant (PRC §21084.1; 14 CCR §15064.5(a)(2)).

A lead agency may also find that a site that does not meet any of these criteria should be treated as a historical resource under CEQA (PRC §21084.1; 14 CCR §15064.5(a)(4)). A lead agency may find that "any object, building, structure, site, area, place, record, or manuscript" is historically significant or significant in the "cultural annals of California" provided that its determination is "supported by substantial evidence in light of the whole record" (14 CCR §15064.5(a)(3)). The guidelines also note that a resource ordinarily should be considered historically significant if it meets the criteria for listing on the California Register of Historical Resources (14 CCR §15064.5(a)(3)).

### Native American Consultation (AB 52)

Assembly Bill (AB) 52 requires early notice of any project requiring an EIR, Mitigated Negative Declaration or Negative Declaration for any tribe that has submitted a written request pursuant to Public Resources Code Section 21080.3.1(b)(d) and (e).

Assembly Bill 52 of the CEQA Guidelines requires public agencies to consult with tribes during the CEQA process by establishing a consultation process with all California Native American Tribes, which includes both Federally Recognized Tribes and non-federally recognized Tribes. The process incorporates five steps:

**Step 1**: Tribe Requests Notification - To participate in AB 52 tribal consultation, a tribe must request, in writing, to be notified by lead agencies through formal notification of proposed projects in the geographic area with which the tribe is traditionally and culturally affiliated.

**Step 2**: Notification by Lead Agency - Within 14 days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a lead agency must provide formal notification to the designated contact or tribal representative of traditionally and culturally affiliated California Native American tribes that have requested notice. This notice must include a brief description of the project; the project location; the lead agency contact information; and notification that the tribe has 30 days to request consultation.

**Step 3**: Tribe Requests Consultation - The tribe must respond, in writing, within 30 days of receipt of the formal notification and request consultation. When responding to the lead agency, the tribe shall designate a lead contact person. If the tribe does not designate a lead contact person or designates multiple lead contact persons, the lead agency shall defer to the person listed on the contact list maintained by the NAHC for SB 18 consultation.

**Step 4**: Lead Agency Begins Consultation - The lead agency shall begin the consultation process within 30 days of receiving a California Native American tribe's request for consultation and prior to the release of a negative declaration, mitigated negative declaration, or environmental impact report.

**Step 5**: Conclusion of Consultation - The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists to a tribal cultural resource; or a party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached.

### Native American Historic Resource Protection Act; Archaeological, Paleontological, and Historical Sites; Native American Historical, Cultural, and Sacred Sites (Pub. Res. Code § 5097-5097.994)

Public Resources Code Section 5097 specifies the procedures to be followed in the event of the unexpected discovery of Native American human remains on non-federal public lands. California Public Resources Code Section 5097.9 states that no public agency or private party on public property shall "interfere with the free expression or exercise of Native American Religion." The Code further states that:

> "No such agency or party [shall] cause severe or irreparable damage to any Native American sanctified cemetery, place of worship, religious or ceremonial site, or sacred shrine…except on a clear and convincing showing that the public interest and necessity so require."

### California Health and Safety Code

Section 7050.5 of the California Health and Safety Code states that in the event of discovery or recognition of any human remains in any location other than a dedicated cemetery, there shall be no further excavation or disturbance of the find or any nearby area reasonably suspected to overlie adjacent remains until the coroner of the county in which the remains are discovered has determined whether or not the remains are subject to the coroner's authority. If the human remains are of Native American origin, the coroner must notify the Native American Heritage Commission within 24 hours of this identification. The Native American Heritage Commission will identify a Native American Most Likely Descendant (MLD) to inspect the site and provide recommendations for the proper treatment of the remains and associated grave goods.

### Public Resources Code Section 5097.5

California Public Resources Code Section 5097.5 prohibits excavation or removal of any "vertebrate paleontological site…or any other archaeological, paleontological or historical feature, situated on public lands, except with express permission of the public agency having jurisdiction over such lands." Public lands are defined to include lands owned by or under the jurisdiction of the state or any city, county, district, authority or public corporation, or any agency thereof. Section 5097.5 states that any unauthorized disturbance or removal of archaeological, historical, or paleontological materials or sites located on public lands is a misdemeanor.

### 8.3.3 Local

#### Scotts Valley General Plan

The following development-related policies from the Scotts Valley General Plan (2023) would avoid or help reduce impacts associated with the project:

OSC-4.5 **Protect Archaeological Resources**. Use the City's environmental review process to determine potential impacts to archaeological resources of project proposals. The City's archaeological sensitivity zone map shall be used, along with other appropriate data, to evaluate whether archaeological resources are threatened by new development.

OSC-4.6 **Development on Known Archeological Resources**. All new development located on a parcel(s) containing an existing or former historic structure shall require an archaeological field reconnaissance report prior to project consideration by the decision-making body.

#### Scotts Valley Municipal Code

Section 17.44.130 – Cultural Resource Preservation identifies "cultural resources" and "cultural resource sites" as unique, nonrenewable, irreplaceable and significant areas containing evidence of past human activity; and that such sites constitute a precious prehistoric and historic heritage, which is (or is in danger of) rapidly disappearing as a result of public and private land development and/or modification activities. It is the policy of the city to preserve and protect these resources because of their cultural, educational and scientific values; and to recognize that these resources are rightfully the legacy of future generations.

In the event bones or other human remains or artifacts clearly associated with a human interment are discovered, specific procedures are identified in the ordinance that require notification to the City and Santa Cruz County sheriff coroner and cessation of ground-disturbance activity. Should the discovery be of potential importance to living Native Americans, a representative of the local Native American community shall be given an opportunity to inspect the find and submit comments regarding its disposition.

## 8.4 Environmental Impacts and Mitigation Measures

### 8.4.1 Significance Criteria

The following significance criteria for cultural resources were derived from the Environmental Checklist in CEQA Guidelines Appendix G. These significance criteria have been amended or supplemented, as appropriate, to address lead agency requirements and the full range of impacts related to the project.

#### Cultural Resources

A cultural resource impact of the project would be considered significant and would require mitigation if it would meet one of the following criteria.

- Cause a substantial adverse change in the significance of a historic resource (CEQA Guideline 15064.5).
- Cause a substantial adverse change in the significance of an archaeological resource (CEQA Guideline 15064.5).
- Disturb any human remains, including those interred outside of formal cemeteries.

#### Tribal Cultural Resource

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:

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

### 8.4.2 Impact Assessment Methodology

For cultural resources, this impact assessment is based on a comparison of known resource locations with the placement of ground disturbing project activities that have the potential to remove, relocate, damage, or destroy the physical evidence of past cultural activities. If such ground disturbance overlaps recorded site locations, then a direct impact may occur. Historical buildings and structures may be directly impacted if the nearby setting and context is modified substantially, even if the building or structure itself is not physically affected. Indirect impacts may occur if activities occur near, but not directly on, known cultural resources.

### 8.4.3 Summary of No and/or Beneficial Impacts

#### Historic Resources

The project site is vacant and therefore would have no impact to historic resources.

### Tribal Cultural Resources

#### AB 52 Consultation

In September 2021, the City of Scotts Valley contacted the California Native American Heritage Commission (NAHC) and representatives of four tribes with Notice of Preparation letters, as part of their AB 52 consultation. The NAHC responded with a letter describing the AB 52 and Senate Bill 18 consultation process. In December 2021, Pacific Legacy submitted a request to the NAHC for a search of the Sacred Lands File (SLF) for potential tribal cultural resource sensitivity within the project site and a current Native American Contact List for the project. On April 25, 2022, the NAHC responded that the SLF is negative for cultural resources in the project area and provided a Native American Contact List. The list of contacts was forwarded to the City of Scotts Valley to assist with their Assembly Bill (AB) 52 consultation, initiated in 2021.

On May 5, 2021, the City sent AB 52 letters to the contacts on the NAHC list notifying the tribes and individuals about the proposed Extended Phase I investigations. The City did not receive any responses to these letters. The City considers the AB 52 consultation to have concluded.

## 8.4.4 Impacts of the Project

#### Impact CR-1: Cause a substantial adverse change to a known archaeological resource.

A cultural resources sensitivity study (Edwards and Simpson-Smith 1983) was prepared for the City of Scotts Valley to assist with land use planning and development and represents an early effort to qualitatively model archaeological site location probability in the project site. Their study looked at the available cultural resource data, combined with environmental and geological data, which would indicate areas of cultural resource sensitivity depicted as binary categories of high or low sensitivity. Their sensitivity map indicates high sensitivity for the current project site, although the study does not differentiate between surface and buried sensitivity. The Scotts Valley General Plan (2023) Figure OSC-6 Cultural Resource Areas shows roughly the southeastern third of the project area as within a Low Sensitivity Zone and the remainder of the project area within a High and Moderate Sensitivity Zone.

As part of further analysis, Pacific Legacy conducted an Extended Phase I subsurface cultural resources investigation to determine whether there are previously recorded or unrecorded buried archaeological resources within the project area. A previous pedestrian surface inventory (Reese et al. 2022) did not relocate two previously recorded archaeological resources (P-44-000092/CA-SCR-000088/H and P-44-000493/CA-SCR-000343) within the project area and recommended an Extended Phase I subsurface exploratory investigation to search for buried deposits associated with these resources.

The Extended Phase I investigation was warranted due to the prior significant surface disturbance to the majority of the project site due to the construction and maintenance of the golf course, including importing fill sediments, shaping and grading the landform for the course and its facilities, and trenching for drainage, irrigation, and utilities (Reese et al. 2022).

The archival and records search documented by Reese et al. (2022) revealed that the boundaries of two archaeological sites are partially within the project site. Site P-44-000092/CA-SCR-000088/H is a Native American lithic scatter and historic period peat bog extraction location. Site P-44-000493/CA-SCR-000343 is a Native American lithic scatter with midden. Neither of these resources has been evaluated for listing on the California Register of Historic Resources (CRHR) or the National Register of Historic Places (NRHP).

Pacific Legacy conducted exploratory backhoe trenching on June 14 and 15, 2022. Of the six trenches excavated, one (Trench 1) was positive for prehistoric archaeological deposits consistent with those ascribed to P-44-000092/CA-SCR-000088/H and P-44-000493/CA-SCR-000343. Prehistoric archaeological deposits in Trench 1 were observed mixed with fill near the surface and as intact deposits at greater depths within the trench.

Based on the positive results for subsurface Native American cultural materials in Trench 1, additional exploratory backhoe trenching was conducted on November 29 and 30, 2022, to define the boundary of buried cultural materials in the Trench 1 vicinity. Additionally, the site record for P-44-000493/CA-SCR-000343 was found to contain conflicting locational information. While the sketch map indicated its location along the southern margin of the Valley Gardens Golf Course, the description made reference to it being along the dirt driveway to 447 Lockewood Lane as well as being south of the golf course.

The additional Extended Phase I investigation was also designed to test for the presence or absence of this site along the dirt driveway to 447 Lockewood Lane which bisects the project area from west to east.

A series of five trenches were excavated to the north and southeast of Trench 1, along the driveway to 447 Lockewood Lane, to determine the extent of the subsurface deposit within the project site. None of the five trenches, excavated in November, encountered buried or surface prehistoric or historic period cultural deposits, indicating a limited lateral extent of the deposit to the vicinity of Trench 1. This testing further indicates that P-44-000493/CA-SCR-000343 is not present along the dirt driveway to 447 Lockewood Lane.

Investigations to date have not revealed evidence of a historical resource or unique archaeological resource within the project area. Trenching in the southern and central portion of the project area has demonstrated that no significant, intact archaeological deposits are present in these areas.

Although no cultural deposits were encountered during Extended Phase I investigations, outside of Trench 1, there remains the potential to encounter both isolated and intact cultural deposits during construction. Therefore, due to the presence of Native American cultural materials encountered subsurface in Trench 1, the presence of P-44-000092/CA-SCR-88/H on the western Project boundary and the unconfirmed presence of P-44-000439/CA-SCR-343 along the southern project boundary, Pacific Legacy recommended archaeological monitoring for construction related ground disturbance in case of an unanticipated discovery.

Implementation of MM CR-1.1: Historic or Archaeological Discovery During Construction would reduce this impact to less than significant.

### Mitigation for Impact CR-1

#### MM CR-1.1: Historic or Archaeological Discovery During Construction

Due to the presence of Native American cultural materials encountered subsurface in Trench 1, the project application shall hire a qualified archaeologist to be present during ground-disturbing construction activity within a 50-foot perimeter of Trench 1.

Additionally, if buried historic or archaeological resources are discovered during construction, operations shall stop within 50 feet of the find and a qualified archaeologist shall be consulted to evaluate the resource in accordance with CEQA Guidelines 15064.5(f), which requires the Lead Agency to make provisions for historical or unique archaeological resource accidently discovered during construction.

The applicant shall include a standard inadvertent discovery clause in every construction contract to inform contractors of this requirement. If the resource does not qualify as a significant resource, then no further protection or study is necessary. If the resource does qualify as a significant resource, then the impacts shall be avoided by construction activities. If the resource cannot be avoided, adverse impacts to the resource shall be addressed.

The archaeologist shall make recommendations concerning appropriate measures that shall be implemented to protect the resources, including but not limited to excavation and evaluation of the finds in accordance with Section 15064.5(f) of the CEQA Guidelines. Any previously undiscovered resources found during construction within the project site should be recorded on appropriate Department of Parks and Recreation (DPR) 523 forms and evaluated for significance in terms of CEQA criteria.

### Impact CR-2: Directly impact a paleontological resource or unique geologic feature.

The project site is not located in an area that is considered likely to have paleontological resources present. Fossils of plants, animals, or other organisms of paleontological significance have not been discovered at the project site, nor has the site been identified to be within an area where such discoveries are likely. The type of depositional environment at the project site typically does not present favorable conditions for the discovery of paleontological resources. Therefore, the project would not result in impacts to paleontological resources or unique geologic features. However, if significant paleontological resources are discovered, implementation of MM CR-2.1: Paleontological Resource Monitoring would reduce impacts to a less than significant level.

### Mitigation for Impact CR-2

#### MM CR-2.1: Paleontological Resource Monitoring

In the event a fossil(s) is discovered during construction for the project, excavations within 50 feet of the find shall be temporarily halted or delayed until the discovery is examined by a qualified paleontologist, in accordance with Society of Vertebrate Paleontology standards.

The applicant shall include a standard inadvertent discovery clause on construction plans to inform contractors of this requirement. If the paleontological resources are found to be significant, they shall be avoided by project construction activities and recovered by a qualified paleontologist. Upon completion of the recovery, a paleontological assessment shall be conducted by a qualified paleontologist to determine if further monitoring for paleontological resources is required. The project site assessment shall include (1) the results of any geotechnical investigation, (2) specific details of the construction plans, (3) background research, and (4) limited subsurface investigation.

If a high potential to encounter paleontological resources is confirmed, a monitoring plan of further project subsurface construction shall be prepared in conjunction with this assessment. After project subsurface construction has ended, a report documenting monitoring, methods, findings, and further recommendations regarding paleontological resources shall be prepared and submitted to the Director of Community Development.

### Impact CR-3: Inadvertently disturb human remains.

No known human remains are located on the project site. Pursuant to section 7050.5 of the Health and Safety Code, if human remains are discovered, there shall be no further excavation or disturbance of the discovery site or any nearby area reasonably suspected to overlie adjacent human remains until the project applicant has complied with the provisions of State CEQA Guidelines Section 15064.5(e).

In general, these provisions require that the County Coroner be notified immediately. If the remains are found to be Native American, the County Coroner is required to notify the Native American Heritage Commission within 24 hours. The most likely descendant of the deceased Native American is notified by the Commission and given the chance to make recommendations for the remains. If the Commission is unable to identify the most likely descendent, or if no recommendations are made within 24 hours, remains may be reinterred with appropriate dignity elsewhere on the property in a location not subject to further subsurface disturbance. If recommendations are made and not accepted, the Native American Heritage Commission will mediate the problem.

With implementation of existing regulations, the impact would be less than significant and no mitigation is required.

### 8.4.5 Cumulative Impact Analysis

The geographic extent of cumulative impacts to cultural resources is highly dependent on the resource under discussion. For example, a cumulative impact to a historic architectural district would extend across the district, while the cumulative impact to individual archaeological or paleontological resources may accumulate across the City of Scotts Valley, depending on the nature of the resources.

Impact CR-4: Contribute to cumulatively considerable effects on cultural resources.

The project, in combination with past, present, and reasonably foreseeable future projects, could result in significant impacts to archaeological resources. However, projects located in an archaeologically sensitive areas are required to conduct archaeological monitoring during construction (MM CR-1.1: Historic or Archaeological Discovery During Construction), which would reduce cumulative impacts to a less than significant level. Project-level impacts to human remains would be less than significant. These standard regulatory requirements and procedures are required of other present and reasonably foreseeable future projects, and cumulative impacts would be less than significant.

### 8.4.6 Level of Significance after Mitigation

Table 8-1: Summary of Impacts and Mitigation Measures – Cultural Resources summarizes the environmental impacts, significance determinations, and mitigation measures for the project with regard to cultural resources.

**Table 8-1: Summary of Impacts and Mitigation Measures – Cultural Resources**

| Impact | Impact Significance | Mitigation |
|---|---|---|
| Impact CR-1: Cause a substantial adverse change to a known archeological resource. | Less than Significant with Mitigation | MM CR-1.1: Historic or Archaeological Discovery During Construction |
| Impact CR-2: Directly impact a paleontological resource or unique geologic feature. | Less than Significant with Mitigation | MM CR-2.1: Paleontological Resource Monitoring |
| Impact CR-3: Inadvertently disturb human remains. | Less than significant | None required |
| Impact CR-4: Contribute to cumulatively considerable effects on cultural resources. | Less than significant | MM CR-1.1: Historic or Archaeological Discovery During Construction |

## 8.5 References

City of Scotts Valley, 2023. Scotts Valley General Plan.

Edwards, Robert L. and Charlotte A. Simpson-Smith, 1983. *A Cultural Resources Predictability Study for the Land Management Agencies of the City of Scotts Valley*, California. Report S-006296 on file at the Northwest Information Center at Sonoma State University, Rohnert Park, California.

Pacific Legacy, 2023. *Extended Phase 1 Report for the Valley Gardens Golf Course Redevelopment Project*. Prepared for Robson Homes.

Reese, Elena, Marc Greenberg, R. Scott Baxter, William McHugh, and Hannah Ballard. 2022. *Cultural Resources Report for the Valley Gardens Golf Course Redevelopment Project*, Santa Cruz County, California. Report prepared by Pacific Legacy, Bay Area Office, Berkeley, California, for Robson Homes.

# 9 Geology & Soils

## 9.1 Introduction

This section describes effects on geology, soils, and mineral resources that would be caused by the project. Information used to prepare this section came from the following resources:

- City of Scotts Valley, General Plan, 2023.
- Geotechnical Investigation for the Valley Gardens Project at Mt. Hermon Road in the City of Scotts Valley prepared by Geo-Logic Associates, 2019. See Appendix E.
- Geologic literature from the U.S. Geological Survey and California Geological Survey.
- Geologic and soils GIS data.

## 9.2 Scoping Issues Addressed

During the scoping period for the project, no written comments by agencies and the public regarding geology, soils, and mineral resources were received.

## 9.3 Environmental Setting

This section presents information on geology, soils conditions, and mineral resources in the project area. The regional setting provides information on the baseline conditions in the project region and describes baseline conditions for geology, mineral resources, and soils.

### 9.3.1 Regional Setting

The City of Scotts Valley is located in the south-central Santa Cruz Mountains in a seismically active region influenced by numerous faults. Major faults in the area include the Zayante Fault, San Andreas Fault, Butano Fault, and San Gregorio Fault. The Zayante Fault is located approximately 1.5 miles north of the City and is the closest major fault. The Zayante Fault is tied into the San Andreas Fault system and is capable of producing earthquakes of magnitude 7.4 on the Richter scale (Santa Cruz County, 2009).

### 9.3.2 Project Setting

#### Topography and Slope Stability

Topographically, the project site is on a hilly terrain. The property is currently vacant and was previously developed as a golf course with a paved parking lot bordering Mt. Hermon Road. The project site elevation varies by approximately 56 feet, with an elevation of approximately 514 feet above mean sea level (AMSL) in the north near Mt. Hermon Road and approximately 570 feet ASML in the southwest.

### Geology

The geology in the Scotts Valley area consists of crystalline basement rock overlain by a Tertiary-aged sedimentary sequence. The crystalline basement rock that underlies the project area primarily comprises granite and quartz diorite of Cretaceous geologic age. The Tertiary-aged sedimentary sequence includes the following geologic units in order from oldest to youngest: Locatelli Formation, Butano Sandstone, Lompico Sandstone, Monterey Formation, Santa Margarita Sandstone, Santa Cruz Mudstone, Purisima Formation, and terrace deposits and alluvium.

### Faults and Seismicity

The seismicity of central California is dominated by the north-northwest trending San Andreas Fault system and east-west crustal shortening of the Coast Ranges. Both systems respond to strain produced by the relative motions of the Pacific and North American Tectonic Plates. This strain is relieved by right-lateral strike-slip faulting on the San Andreas and related faults, left-lateral strike slip on the Garlock fault, and by vertical, reverse-slip or left-lateral strike-slip displacement on faults in the Coast Ranges. The effects of this deformation include mountain building, basin development, deformation of Quaternary marine terraces, widespread regional uplift, and generation of earthquakes.

The Coast Ranges are characterized by numerous geologically young faults. These faults can be classified as historically active, active, potentially active, or inactive, based on the following criteria (CGS, 2018):

- Faults that have generated earthquakes accompanied by surface rupture during historic time (approximately the last 200 years) and faults that exhibit aseismic fault creep are defined as Historically Active.
- Faults that show geologic evidence of movement within Holocene time (approximately the last 11,000 years) are defined as Active.
- Faults that show geologic evidence of movement during the Quaternary time (approximately the last 1.6 million years) are defined as Potentially Active.
- Faults that show direct geologic evidence of inactivity during all of Quaternary time or longer are classified as Inactive.

Although it is difficult to quantify the probability that an earthquake will occur on a specific fault, this classification is based on the assumption that if a fault has moved during the Holocene epoch, it is likely to produce earthquakes in the future. Blind thrust faults do not intersect the ground surface, and thus they are not classified as active or potentially active in the same manner as faults that are present at the earth's surface. Blind thrust faults are seismogenic structures and thus the activity classification of these faults is predominantly based on historic earthquakes and microseismic activity along the fault. Periodic earthquakes accompanied by surface displacement are expected to continue in the study area through the

lifetime of the project; therefore, the effects of strong ground shaking and fault rupture are of concern to safe operation of the project and associated facilities.

Active regional faults capable of producing significant ground shaking at the project site are strike-slip faults associated with the San Andreas Fault System and reverse and blind thrust faults associated with the compressional faulting and folding of the Coast Ranges. As shown in Table 9 1: Regional Faults and Seismicity, there are no active faults are mapped on the project site.

**Table 9-1: Regional Faults and Seismicity**

| Fault Segment | Distance from Project Site (miles) | Direction from Project Site | Maximum Characteristic Magnitude |
|---|---|---|---|
| Zayante-Vergeles | 7 | North/Northeast | 7.4 |
| San Andreas | 8 | Northeast | 8.0 |
| Seal Cove - San Gregorio | 12 | Southwest | 7.0 |

Source: Geo-Logic, 2019

## Zayante-Vergeles Fault

The Zayante-Vergeles fault is located approximately seven miles north/northeast of the project site. The Zayante fault lies west of the San Andreas Fault and trends about 50 miles northwest from the "Watsonville lowlands" into the Santa Cruz Mountains. The southern extension of the Zayante fault, known as the Vergeles fault, merges with the San Andreas Fault south of the City of San Juan Bautista in San Benito County.

The Zayante-Vergeles fault has a long, well-documented geological history of vertical movement, accompanied by right-lateral, strike-slip movement. Stratigraphic and geomorphic evidence indicates the Zayante-Vergeles fault has undergone late Pleistocene and Holocene movements and is considered potentially active.

## San Andreas Fault

The San Andreas Fault zone is located approximately eight miles northeast of the project site and represents a major seismic hazard in northern California. The San Andreas Fault zone extends nearly the entire length of California and marks the boundary between the North American plate to the east and the Pacific plate to the west. Historical earthquakes along the San Andreas fault and its branches have caused significant seismic shaking in the Monterey Bay area. The two largest historically recent earthquakes on the San Andreas to affect the area were the moment magnitude (Mw) 7.9 San Francisco earthquake of April 1906 and the Mw 6.9 Loma Prieta earthquake of October 1989. The San Francisco earthquake caused severe seismic shaking and structural damage to many buildings in the Monterey Bay area. NCEP estimates

that the San Andreas - 1906 Segment experiences earthquakes of comparable magnitudes at intervals of about 200 years.

### Seal Cove-San Gregorio Fault

The Seal Cove-San Gregorio fault skirts the coastline of Santa Cruz County northward from Monterey Bay, and trends onshore at Point Año Nuevo. Northward from Año Nuevo, it passes offshore again, to connect with the San Andreas fault near Bolinas. Southward from Monterey Bay, it may trend onshore north of Big Sur to connect with the Palo Colorado fault or continue southward through Point Sur to connect with the Hosgri Fault in south-central California. Based on these two proposed correlations, the San Gregorio Fault zone has a length of at least 100 miles and possibly as much as 250 miles.

#### Surface Fault Rupture

Fault rupture is the surface displacement that occurs when movement on a fault deep within the earth breaks through to the surface. The Alquist-Priolo Earthquake Fault Zoning Act delineates fault rupture zones approximately 1,000 feet wide, or 500 feet on either side of an active fault trace. Fault rupture and displacement almost always follows preexisting faults, which are zones of weakness; however, not all earthquakes result in surface rupture, i.e., earthquakes that occur on blind thrusts do not result in surface fault rupture. Rupture may occur suddenly during an earthquake or slowly in the form of fault creep. In addition to damage cause by ground shaking from an earthquake, fault rupture is damaging to buildings and other structures due to the differential displacement and deformation of the ground surface that occurs from the fault offset leading to damage or collapse of structures across this zone. Fault rupture displacements in large earthquakes can range from several feet to greater than 15 feet, i.e., displacement on the San Andreas Fault in the 1857 M 7.9 Fort Tejon earthquake was at least 18 feet (Scharer, 2010).

No known faults pass through or are located adjacent to the project site. Therefore, there is no potential of surface fault rupture of a known fault on or within the vicinity of the project site.

#### Seismic Ground Shaking

An earthquake is classified by the amount of energy released, which traditionally has been quantified using the Richter scale. Currently, however, seismologists most commonly use the Moment Magnitude scale because it provides a more accurate measurement of the size of major and great earthquakes. For earthquakes of less than Mw 7.0, the Moment and Richter Magnitude scales are nearly identical. For earthquake magnitudes greater than M 7.0, readings on the Moment Magnitude scale are slightly greater than a corresponding Richter Magnitude.

The intensity of the seismic shaking, or strong ground motion, during an earthquake is dependent on the distance between the project area and the epicenter of the earthquake, the magnitude of the earthquake, and the geologic conditions underlying and surrounding the project site. Earthquakes occurring on faults closest to the project site would most likely generate the largest ground motion.

Based on the proximity to active faults in the Scotts Valley area, the project site is subject to seismic ground shaking.

#### Liquefaction

Liquefaction tends to occur in loose, saturated, fine-grained sands, course silts, or clays with low plasticity. The liquefaction process typically occurs at depths less than 50 feet below the ground surface, although liquefaction can occur at deeper intervals, given the right conditions. The most susceptible zone occurs at depths shallower than 30 feet below the ground surface. For liquefaction to occur, there must be the proper soil type, soil saturation, and cyclic accelerations of sufficient magnitude to progressively increase the water pressures within the soil mass. Non-cohesive soil shear strength is developed by the point-to-point contact of the soil grains. As the water pressures increase in the void spaces surrounding the soil grains, the soil particles become supported more by the water than the point-to-point contact. When the water pressures increase sufficiently, the soil grains begin to lose contact with each other resulting in the loss of shear strength and continuous deformation of the soil where the soil begins to liquefy.

Liquefaction can lead to several types of ground failure, depending on slope conditions and the geological and hydrological settings, of which the four most common types of ground failure are: 1) lateral spreads, 2) flow failures, 3) ground oscillation and 4) loss of bearing strength.

Based on a review of regional liquefaction maps, the project site is classified as having a low potential for liquefaction during dry summer months but high potential during wet winter months.

#### Soils

Soils within the project site are categorized by the United State Department of Agriculture (USDA) Natural Resource Conservation Service (NRCS) as Elkhorn sandy loam and Zayante coarse sand. Approximately 99.8 percent of the project site is comprised of Zayante coarse sand, and the remaining 0.2 percent comprised of Elkhorn sandy loam (USDA-NRCS, 2021).

#### Mineral Resources

There are no active mines or quarries within 1,000 feet of the project site. The project site is not within a known mapped oil or gas field (CalGEM, 2022).

### 9.3.3 Paleontological Resources Evaluation

Based on the soil characteristics on the project site, the likelihood of paleontological resources on the project site is low, and therefore a separate evaluation was not prepared. As described below, the project includes several conditions of approval that would address impacts to cultural resources, which includes paleontological resources, should they be discovered during project construction.

## 9.4 Applicable Regulations, Plans, and Standards

### 9.4.1 Federal

#### International Building Code

Published by the International Code Council, the scope of this code covers major aspects of construction and design of structures and buildings, except for three-story one- and two-family dwellings and town homes. The 2012 International Building Code replaced the 1997 Uniform Building Code, and it contains provisions for structural engineering design. Published by the International Conference of Building Officials, the 2012 International Building Code addresses (IBC) addresses the design and installation of structures and building systems through requirements that emphasize performance. The IBC includes codes governing structural as well as fire- and life-safety provisions covering seismic, wind, accessibility, egress, occupancy, and roofs.

### 9.4.2 State

#### Alquist-Priolo Earthquake Fault Zoning Act

The Alquist-Priolo Earthquake Fault Zoning Act, Public Resources Code (PRC), Section 2621–2630 (formerly the Special Studies Zoning Act), regulates development and construction of buildings intended for human occupancy to avoid the hazard of surface fault rupture. This Act categorizes faults as active, potentially active, and inactive. Historic and Holocene age faults are considered active, Late Quaternary and Quaternary age faults are considered potentially active, and pre-Quaternary age faults are considered inactive. These classifications are qualified by the conditions that a fault must be shown to be “sufficiently active” and “well defined” by detailed site-specific geologic explorations to determine whether building setbacks should be established.

#### The Seismic Hazards Mapping Act

The Seismic Hazards Mapping Act, PRC, Sections 2690–2699, of 1990 directs the California Department of Conservation, Division of Mines and Geology [now called California Geological Survey (CGS)] to delineate Seismic Hazard Zones. The purpose of the act is to reduce the threat to public health and safety and to minimize the loss of life and property by identifying and mitigating seismic hazards. Cities, counties, and State agencies are directed to use seismic hazard zone maps developed by CGS in their land-use planning and permitting processes. The act requires that site-specific geotechnical investigations be performed prior to permitting most urban development projects within seismic hazard zones.

#### California Building Code

The California Building Code, Title 24, Part 2 (CBC, 2013) provides building codes and standards for design and construction of structures in California. The 2013 CBC is based on the 2012 International Building Code with the addition of more extensive structural seismic provisions.

Chapter 16 of the CBC contains definitions of seismic sources and the procedure used to calculate seismic forces on structures. Chapter 33 of the CBC contains requirements relevant to the construction of underground transmission lines. The Scotts Valley Building Department would review the permit application for the project to ensure compliance with the CBC.

#### California Building Standards Code

The California Building Code (CBC) is another name for the body of regulations known as the California Code of Regulations (CCR), Title 24, Part 2, which is a portion of the California Building Standards Code and establishes minimum requirements for a buildings structural strength and stability to safeguard the public health, safety and general welfare. Title 24 is assigned to the California Building Standards Commission, which, by law, is responsible for coordinating all building standards. Under State law, all building standards must be centralized in Title 24 or they are not enforceable.

Published by the International Conference of Building Officials, the UBC is a widely adopted model building code in the United States. The CBC incorporates by reference the 2006 IBC, referred in the CEQA standard of significance below, with necessary California amendments.

### 9.4.3 Local

#### Scotts Valley General Plan

The following development-related policies from the Scotts Valley General Plan (2023) would avoid or help reduce impacts associated with the project:

SN-3.10 **Geotechnical Evaluations**. In a geologic hazard area, development shall be approved only after a geotechnical evaluation is completed by a registered geologist as part of the environmental review process. Where new development proposed for areas of known or suspected geologic hazards, as identified in City or County maps or where other information obtained by the City indicates geologic hazards exist in an area proposed for development, a detailed geotechnical and/or geologic report shall be prepared and submitted to the City as a part of the application or environmental review process.

#### Scotts Valley Municipal Code

See Cultural Resources Section 8.3.3 regarding the protection of cultural resources which includes paleontological resources.

## 9.5 Environmental Impacts and Mitigation Measures

### 9.5.1 Significance Criteria

The following significance criteria for geology, soils, and mineral resources were derived from the Environmental Checklist in CEQA Guidelines Appendix G. These significance criteria have

been amended or supplemented, as appropriate, to address lead agency requirements and the full range of potential impacts related to this project.

An impact of a project would be considered significant and would require mitigation if it would meet one of the following criteria.

- Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:
    i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

    ii) Strong seismic ground shaking

    iii) Landslides

- Result in substantial soil erosion or the loss of topsoil.
- 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.
- Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property.
- Result in 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.
- Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature.

### 9.5.2 Summary of No and/or Beneficial Impacts

#### Extraction of Mineral Resources

There are no active mines or quarries within 1,000 feet of the project site; nor is the project site located within a known mapped oil or gas field. The project does not propose the extraction of mineral resources. Therefore, there would be no impact.

#### On-site Wastewater Disposal System

Residential development pursuant to the project would involve disposal of wastewater via a sanitary sewer; no septic systems would be installed by the project. Therefore, there would be no impact.

### 9.5.3 Impacts of the Project

Impact GEO-1: Directly or indirectly cause substantial adverse effects, including the risk of loss, or injury, or death involving:

- Rupture of a known earthquake fault
- Landslides
- Strong seismic ground shaking

The project is not located within an Alquist-Priolo Earthquake Fault Zone or a Zone of Required Investigation as mapped by the State Geologist. No known faults or landslides are mapped within the project site; however, the project site is situated between two major seismically active faults. The San Andreas Fault is located approximately eight miles northeast of the project site and the San Gregorio Fault is located approximately 12 miles southwest of the project site. A seismic event is considered likely during the useful life of any structures planned under the project. This event could potentially jeopardize public safety, including the safety of both structures and people within the project site.

In addition to the direct physical damage to structures caused by the ground shaking, marginally stable landslides, slopes, and inadequately compacted fill material could move and cause additional damage. Gas, water, and electrical lines could be ruptured during ground shaking or broken during movement of earth caused by the earthquake, which could also jeopardize public safety.

As part of any Planned Development application submitted to the City of Scotts Valley, the project applicant would be required to submit plans that are in compliance with the latest California Building Code (CBC) standards and consistent with Title 15 – Buildings and Construction of the Scotts Valley Municipal Code. The philosophy of the CBC is to prevent structural collapse, thereby, mitigating life safety issues. By definition, significant structural damage is acceptable in code-conforming structures; although it has been found by experience that wood-frame structures properly built to the latest building codes generally perform well in response to strong ground shaking where ground failure is not involved.

Prior to approval of any entitlements for a specific project, City staff is required to review project plans and verify that the CBC Seismic requirements are printed on the plans. Building Division staff shall verify that CBC standards are met prior to issuance of Building Permits. Building inspectors shall conduct site inspections to assure that construction occurs consistent with approved plans.

Since compliance with the CBC and Title 15 – Buildings and Construction of the Scotts Valley Municipal Code is required for the project, potential impacts associated with earthquake-related ground rupture, landslides, and strong seismic ground shaking would be less than significant and no mitigation is required.

### Impact GEO-2: Result in substantial soil erosion or the loss of topsoil.

The project would involve the removal of vegetation and grading activities associated with the construction of project buildings, infrastructure, and roads. The loosening and exposure of soil makes it susceptible to erosion by water and wind. During unusually high rainfall over a short duration, excessive erosion has the potential to occur during project development. As result, soil particles may be carried by stormwater to receiving water bodies (e.g., Upper Lake, Lower Lake, and King Lake) resulting in sedimentation. The effects of increased sediment loading could include increased turbidity and reduced light penetration. Development pursuant to the project would also increase the amount of impervious surfaces on the project site which would affect the natural drainage pattern of the site.

Grading would largely be limited to the project site, which would limit the amount of exposed soil area that will be subject to erosion. The geotechnical report prepared for the project (Appendix E) found that project site soils are generally granular with little or no cohesion making them prone to erosion. Measures to control erosion would be incorporated into the construction specifications pursuant to the National Pollution Discharge Elimination System (NPDES) requirements for construction.

In addition, to comply with the NPDES requirements for construction, projects involving construction on sites that are one acre or more are required to prepare and implement a Stormwater Pollution Prevention Plan (SWPPP) that specifies how the discharger will protect water quality during construction activities. These measures include, but are not limited to: design and construction of cut and fill slopes in a manner that will minimize erosion, protection of exposed slope areas, control of surface water flows over exposed soils, use of wetting or sealing agents or sedimentation ponds, limiting soil excavation in high winds, construction of beams and runoff diversion ditches, and use of sediment traps, such as hay bales; see Chapter 12: Hydrology & Water Quality.

Compliance with the erosion control ordinances and SWPP prepared for the project and acquisition of a NPDES General Permit for construction activities would ensure that soil erosion impacts associated with development pursuant to the project would be less than significant.

### Impact GEO-3: 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.

The project site is neither located in an area of known landslide deposits as identified in Figure OS-6 of the Scotts Valley General Plan nor located within a Zone of Required Investigation as mapped by the State Geologist. The project site is located within a moderate liquefaction potential zone identified by the County of Santa Cruz GIS (Santa Cruz County, 2022).

A geotechnical investigation for the project was conducted by Geo-Logic Associates (Appendix E). As part of the site investigation, 21 exploratory drill holes were drilled and six cone

penetration tests (CPTs) were performed. The depth of the drill holes ranged between 19 and 50 feet below ground surface (bgs). The depth of the CPTs ranged between 12 and 45 feet bgs. Geotechnical laboratory testing was also performed on soil samples from select drill holes. Based on the results of these tests, the potential risk of landslide, lateral spreading, subsidence, liquefaction, and collapse as a result of the project are summarized below.

### Landslide

As discussed above, no known landslides have been mapped at the project site.

### Lateral Spreading

Project site soils are comprised of Zayante coarse sand and Elkhorn sandy loam. Zayante coarse sand is characterized by slopes of five to thirty percent slopes. Elkhorn sandy loam is characterized by two to nine percent slopes. Subsurface site materials comprise of alluvium underlain by Santa Margarita sandstone. These granular soils have a low expansion potential. Therefore, the potential for lateral spreading to affect the project site is low.

### Liquefaction

Zayante coarse sand is characterized by slopes of five to thirty percent slopes. Elkhorn sandy loam is characterized by two to nine percent slopes. Subsurface site materials are comprised of alluvium underlain by Santa Margarita sandstone. Alluvial soils are generally medium dense to very dense sands with locally loose sands.

Liquefaction is a process whereby ground shaking causes saturated granular soils to become liquid-like. This type of phenomenon occurs when saturated rocks are vibrated, which increases the pore pressure and separates the grains.

A project site specific liquefaction assessment was conducted as part of the geotechnical investigation prepared for the project by Geo-Logic Associates (Appendix E). The assessment found that there are loose sands below the assumed 10 feet bgs groundwater level within the project site. Therefore, the potential for liquefaction at the project site would be low during the dry summer months when the groundwater level is lower (likely below 20 feet bgs), however, the potential for liquefaction would be high during the wet winter months when the ground water level is higher at 10 feet bgs. It is estimated that the ground surface may settle or depress between an estimated 1.3 inches to 2 inches under the open space proposed in the north portion of the project site and 1.5 inches to 1.6 inches under the residences proposed in the south portion of the project site should a design earthquake occur concurrently with the winter high groundwater level. The probability of a design earthquake occurring concurrently with the high winter groundwater level is low but not impossible. Therefore, the geotechnical investigation recommends that the project utilize appropriate foundations for structures constructed on the project site. Implementation of MM GEO-3.1 requiring the implementation of geotechnical investigation recommendations would reduce impacts related to liquefaction to a less than significant level.

### Subsidence

Subsidence is the sudden sinking or gradual downward settling and compaction of soil and other surface material with little or no horizontal motion. Subsidence may be caused by a variety of human and natural activities, including earthquakes. As discussed above, no known faults or landslides are mapped at the project site; however, the project site is situated between two major seismically active faults. The closest fault is the Zayante-Vergeles Fault, located approximately seven miles north/northeast of the project site.

As part of any Planned Development application submitted to the City of Scotts Valley, the project applicant would be required to submit plans that are in compliance with the latest CBC standards consistent with Title 15 – Buildings and Construction of the Scotts Valley Municipal Code. Compliance with the CBC would help to prevent structural collapse in the event of subsidence thereby mitigating life safety issues. Because compliance with the CBC and Title 15 – Buildings and Construction of the Scotts Valley Municipal Code is required for all projects, potential impacts associated with subsidence would be less than significant and no mitigation is required.

### Collapse

As part of any Planned Development application submitted to the City of Scotts Valley, the project applicant would be required to submit plans that are in compliance with the latest CBC standards consistent with Title 15 – Buildings and Construction of the Scotts Valley Municipal Code. Compliance with the CBC would help to prevent structural collapse thereby mitigating life safety issues. Because compliance with the CBC and Title 15 – Buildings and Construction of the Scotts Valley Municipal Code is required for all projects, potential impacts associated with collapse would be less than significant and no mitigation is required.

## Mitigation Impact for GEO-3

**MM GEO-3.1 Implement geotechnical investigation recommendations.**

The project applicant shall ensure that the project incorporates appropriate geotechnical recommendations for the seismic ground shaking, seismic-related ground failure and liquefaction, landslide susceptibility, erosion and erosion control, soil stability, expansive soils, and any other appropriate issue. Prior to building permit issuance, the project geotechnical engineer shall review the plans submitted for a grading/building for compliance with the recommendation of the geotechnical report. Once the plans comply with the recommendations, the project geotechnical engineer shall provide a plan review letter stating that the project design meets all of the geotechnical report recommendations.

Impact GEO- 4: Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property.

Expansive soils shrink and swell as a result of moisture changes, which can cause heaving and cracking of slabs-on-grade, pavements, and structures founded on shallow foundations. Building damage due to moisture changes in expansive soils can be reduced by appropriate grading practices and using post-tensioned concrete mat foundations or similarly stiffened foundation systems that are designed to resist the deflections associated with soil expansion. According to the geotechnical investigation prepared for the project (Appendix E), the project site is not comprised of expansive soils and has a very low expansion potential. Therefore, potential impacts associated with expansive soil would be less than significant and no mitigation is required.

Impact GEO-5: Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature.

See Impact CR-2 in Chapter 2 Cultural and Tribal Cultural Resources.

### 9.5.4 Cumulative Impact Analysis

The geographical area for the analysis of cumulative impacts involving risks associated with geologic hazards and soils constraints is the City of Scotts Valley because it is a confined developed area with similar geologic characteristics.

Impact GEO-6: Contribute to cumulatively considerable effects on geology and soils.

Most geologic-related impacts from development are site-specific and if properly designed would not result in additive worsening of the environmental or public health and safety. Cumulative development would be subject to site-specific geologic and/or soils constraints; pursuant to the City of Scotts Valley's building permit requirements, a registered geotechnical engineer would investigate site-specific conditions and provide recommendations to minimize exposure to hazards or constraints. The Scotts Valley Building Department would require adherence to these recommendations as a condition of building permit approval.

Cumulative development would also involve the exposure of an increased number of people and/or structures to risk of earthquakes and their associated geologic hazards. New construction would be required to comply with the most current CBC, which establishes building standards to minimize risk based on the geologic and seismic conditions of the region in which a project is located.

Therefore, cumulative geologic and soils impacts would be less than significant.

### 9.5.5 Level of Significance after Mitigation

Table 9 2: Summary of Impacts and Mitigation Measures – Geology & Soils summarizes the environmental impacts, significance determinations, and mitigation measures for the project with regard to geology & soils.

**Table 9-2: Summary of Impacts and Mitigation Measures – Geology & Soils**

| Impact | Impact Significance | Mitigation |
|---|---|---|
| Impact GEO-1: Directly or indirectly expose people or structures to potential substantial adverse effects, including the risk of loss, or injury, or death involving:<br>i) Rupture of a known earthquake fault<br>I) Earthquake<br>ii) Landslides<br>iii) Strong seismic ground shaking | Less than Significant | None required. |
| Impact GEO-2: Result in substantial soil erosion or the loss of topsoil. | Less than Significant | None required. |
| Impact GEO-3: 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. | Less than Significant with Mitigation | MM GEO 3.1: Implement geotechnical investigation recommendations |
| Impact GEO-4: Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property | Less than Significant | None required. |
| Impact GEO-5: Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature. | Less than Significant with Mitigation | MM CR-2.1: Paleontological Resource Monitoring |
| Impact GEO-6: Contribute to cumulatively considerable effects on geology and soils. | Less than Significant | None required. |

## 9.6 References

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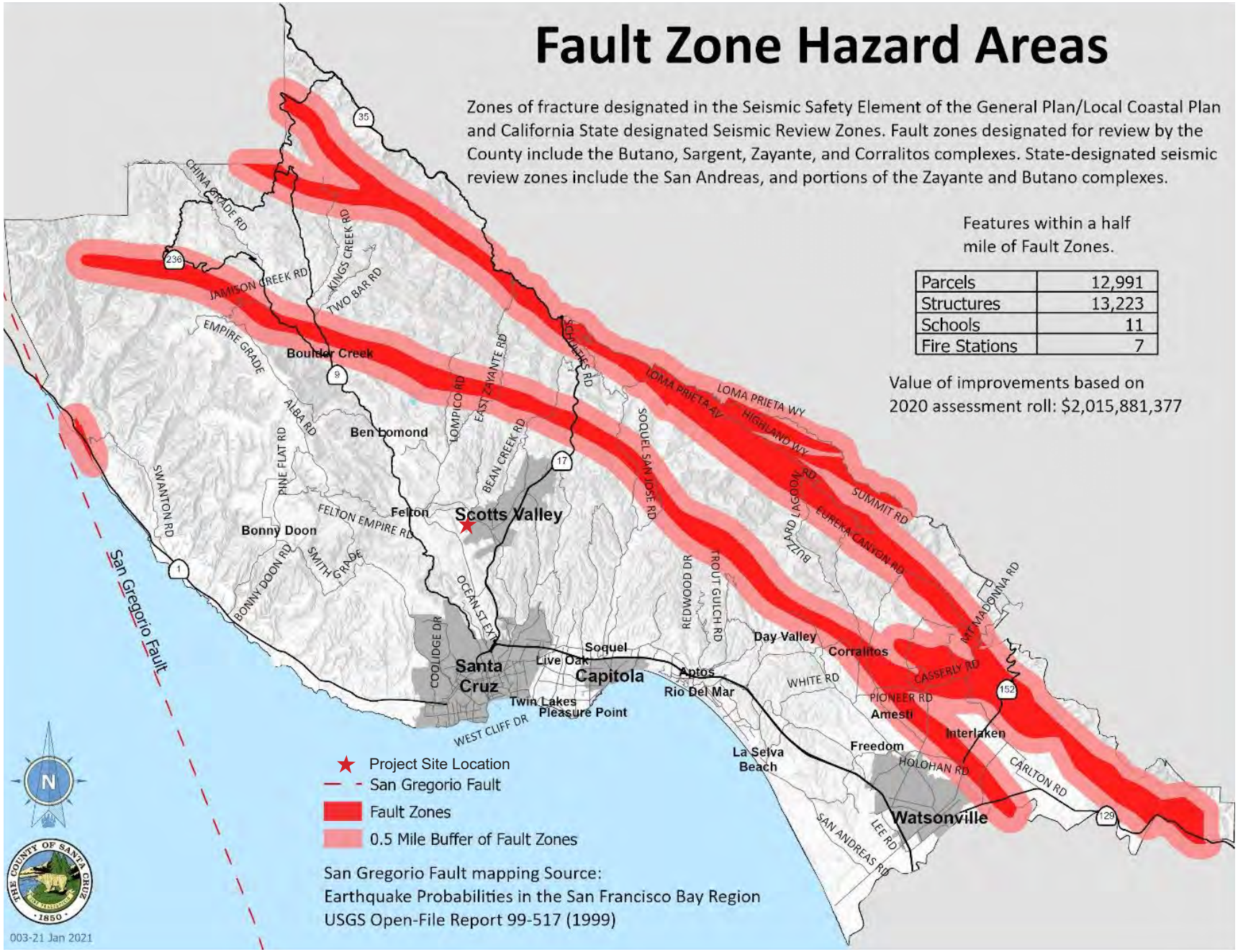
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Source: USGS, 2021

**Figure 9-1 Regional Fault Zones**

Valley Gardens
*EIR*

Not to scale

Kimley»Horn
Expect More. Experience Better.

# 10 Greenhouse Gas Emissions

## 10.1 Introduction

This section describes greenhouse gas (GHG) emission effects pursuant to the project. Information used to prepare this section came from the following resources:

- Project application and related materials
- Air quality data provided by the California Air Resources Board (CARB)
- California Emissions Estimator Model (CalEEMod) projections (see Appendix B: CalEEMod Air Quality Analysis)

The study area for climate change and the analysis of greenhouse gas (GHG) emissions is broad because climate change is influenced by world-wide emissions and their global effects. However, the study area is also limited by the CEQA Guidelines [Section 15064(d)], which directs lead agencies to consider an "indirect physical change" only if that change is a reasonably foreseeable impact that may be caused by the project. This analysis limits discussion to those physical changes to the environment that are not speculative and are reasonably foreseeable.

## 10.2 Scoping Issues Addressed

During the scoping period for the project, no written comments by agencies and the public regarding greenhouse gas emissions were received.

## 10.3 Environmental Setting

### 10.3.1 Climate Change and Greenhouse Gases

Certain gases in the earth's atmosphere classified as GHGs, play a critical role in determining the earth's surface temperature. Solar radiation enters the earth's atmosphere from space. A portion of the radiation is absorbed by the earth's surface and a smaller portion of this radiation is reflected toward space. This absorbed radiation is then emitted from the earth as low-frequency infrared radiation. The frequencies at which bodies emit radiation are proportional to temperature. Because the earth has a much lower temperature than the sun, it emits lower-frequency radiation. Most solar radiation passes through GHGs; however, infrared radiation is absorbed by these gases. As a result, radiation that otherwise would have escaped back into space is instead "trapped," resulting in a warming of the atmosphere. This phenomenon, known as the greenhouse effect, is responsible for maintaining a habitable climate on earth.

The primary GHGs contributing to the greenhouse effect are carbon dioxide ($CO_2$), methane ($CH_4$), and nitrous oxide ($N_2O$). Fluorinated gases also make up a small fraction of the GHGs that

contribute to climate change. Examples of fluorinated gases include chlorofluorocarbons (CFCs), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride ($SF_6$), and nitrogen trifluoride ($NF_3$); however, it is noted that these gases are not associated with typical land use development. Human-caused emissions of GHGs exceeding natural ambient concentrations are believed to be responsible for intensifying the greenhouse effect and leading to a trend of unnatural warming of the Earth's climate, known as global climate change or global warming.

GHGs are global pollutants, unlike criteria air pollutants and toxic air contaminants (TACs), which are pollutants of regional and local concern. Whereas pollutants with localized air quality effects have relatively short atmospheric lifetimes (approximately one day), GHGs have long atmospheric lifetimes (one to several thousand years). GHGs persist in the atmosphere for long enough time periods to be dispersed around the globe. Although the exact lifetime of a GHG molecule is dependent on multiple variables and cannot be pinpointed, more $CO_2$ is emitted into the atmosphere than is sequestered by ocean uptake, vegetation, or other forms of carbon sequestration. Of the total annual human-caused $CO_2$ emissions, approximately 55 percent is sequestered through ocean and land uptakes every year, averaged over the last 50 years, whereas the remaining 45 percent of human-caused $CO_2$ emissions remains stored in the atmosphere (Intergovernmental Panel on Climate Change, 2013). Table 10-1: Description of Greenhouse Gases, describes the primary GHGs attributed to global climate change, including their physical properties.

**Table 10-1: Description of Greenhouse Gases**

| Greenhouse Gas | Description |
|---|---|
| Carbon Dioxide ($CO_2$) | $CO_2$ is a colorless, odorless gas that is emitted naturally and through human activities. Natural sources include decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungus; evaporation from oceans; and volcanic outgassing. Anthropogenic sources are from burning coal, oil, natural gas, and wood. The largest source of $CO_2$ emissions globally is the combustion of fossil fuels such as coal, oil, and gas in power plants, automobiles, and industrial facilities. The atmospheric lifetime of $CO_2$ is variable because it is readily exchanged in the atmosphere. $CO_2$ is the most widely emitted GHG and is the reference gas (Global Warming Potential of 1) for determining Global Warming Potentials for other GHGs. |
| Nitrous Oxide ($N_2O$) | $N_2O$ is largely attributable to agricultural practices and soil management. Primary human-related sources of $N_2O$ include agricultural soil management, sewage treatment, combustion of fossil fuels, and adipic and nitric acid production. $N_2O$ is produced from biological sources in soil and water, particularly microbial action in wet tropical forests. The atmospheric lifetime of $N_2O$ is approximately 120 years. The Global Warming Potential of $N_2O$ is 298. |
| Methane ($CH_4$) | $CH_4$, a highly potent GHG, primarily results from off-gassing (the release of chemicals from nonmetallic substances under ambient or greater pressure conditions) and is largely associated with agricultural practices and landfills. Methane is the major component of natural gas, approximately 87 percent by volume. Human-related sources include fossil fuel production, animal husbandry, rice cultivation, biomass burning, and waste management. Natural sources of $CH_4$ include wetlands, gas hydrates, termites, oceans, freshwater bodies, non-wetland soils, and wildfires. The atmospheric lifetime of $CH_4$ is approximately 12 years and the Global Warming Potential is 25. |

| | |
|---|---|
| Hydrofluoro-carbons (HFCs) | HFCs are typically used as refrigerants for both stationary refrigeration and mobile air conditioning. The use of HFCs for cooling and foam blowing is increasing, as the continued phase out of CFCs and HCFCs gains momentum. The 100-year Global Warming Potential of HFCs range from 124 for HFC-152 to 14,800 for HFC-23. |
| Perfluoro-carbons (PFCs) | PFCs have stable molecular structures and only break down by ultraviolet rays approximately 60 kilometers above Earth's surface. Because of this, they have long lifetimes, between 10,000 and 50,000 years. Two main sources of PFCs are primary aluminum production and semiconductor manufacturing. Global Warming Potentials range from 6,500 to 9,200. |
| Chlorofluoro-carbons (CFCs) | CFCs are gases formed synthetically by replacing all hydrogen atoms in methane or ethane with chlorine and/or fluorine atoms. They are nontoxic, nonflammable, insoluble, and chemically unreactive in the troposphere (the level of air at the earth's surface). CFCs were synthesized in 1928 for use as refrigerants, aerosol propellants, and cleaning solvents. The Montreal Protocol on Substances that Deplete the Ozone Layer prohibited their production in 1987. Global Warming Potentials for CFCs range from 3,800 to 14,400. |
| Sulfur Hexafluoride ($SF_6$) | $SF_6$ is an inorganic, odorless, colorless, and nontoxic, nonflammable gas. It has a lifetime of 3,200 years. This gas is manmade and used for insulation in electric power transmission equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas. The Global Warming Potential of $SF_6$ is 23,900. |
| Hydrochloro-fluorocarbons (HCFCs) | HCFCs are solvents, similar in use and chemical composition to CFCs. The main uses of HCFCs are for refrigerant products and air conditioning systems. As part of the Montreal Protocol, HCFCs are subject to a consumption cap and gradual phase out. The United States is scheduled to achieve a 100 percent reduction to the cap by 2030. The 100-year Global Warming Potentials of HCFCs range from 90 for HCFC-123 to 1,800 for HCFC-142b. |
| Nitrogen Trifluoride ($NF_3$) | $NF_3$ was added to Health and Safety Code section 38505(g)(7) as a GHG of concern. This gas is used in electronics manufacture for semiconductors and liquid crystal displays. It has a high global warming potential of 17,200. |
| Source: Compiled from U.S. EPA, *Overview of Greenhouse Gases*, April 11, 2018 (https://www.epa.gov/ghgemissions/overview-greenhouse-gases); U.S. EPA, *Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2016*, 2018; Intergovernmental Panel on Climate Change, *Climate Change 2007: The Physical Science Basis*, 2007; National Research Council, Advancing the Science of Climate Change, 2010; U.S. EPA, *Methane and Nitrous Oxide Emission from Natural Sources*, April 2010. | |

## 10.4 Applicable Regulations, Plans, and Standards

### 10.4.1 Federal

To date, national standards have not been established for nationwide GHG reduction targets, nor have any regulations or legislation been enacted specifically to address climate change and GHG emissions reduction at the project level. Various efforts have been promulgated at the federal level to improve fuel economy and energy efficiency to address climate change and its associated effects.

#### Clean Air Act

In April 2007, in Massachusetts v. EPA, the U.S. Supreme Court directed the Administrator of the U.S. Environmental Protection Agency (U.S. EPA) to determine whether GHG emissions

from new motor vehicles cause or contribute to air pollution that may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned decision. In making these decisions, the U.S. EPA Administrator was directed to follow the language of Section 202(a) of the Clean Air Act (CAA). In December 2009, the Administrator signed a final rule with two distinct findings regarding GHGs under Section 202(a) of the CAA.

- Elevated concentrations of GHGs—$CO_2$, $CH_4$, $N_2O$, HFCs, PFCs, and $SF_6$—in the atmosphere threaten the public health and welfare of current and future generations. This is referred to as the "endangerment finding."
- The combined emissions of GHGs— $CO_2$, $CH_4$, $N_2O$, and HFCs—from new motor vehicles and new motor vehicle engines contribute to the GHG air pollution that endangers public health and welfare. This is referred to as the "cause or contribute finding."

These two findings were necessary to establish the foundation for regulation of GHGs from new motor vehicles as air pollutants under CAA.

### Federal Vehicle Standards

In response to the U.S. Supreme Court ruling discussed above, Executive Order 13432 was issued in 2007 directing the U.S. EPA, the Department of Transportation, and the Department of Energy to establish regulations that reduce GHG emissions from motor vehicles, non-road vehicles, and non-road engines by 2008. In 2009, the National Highway Traffic Safety Administration (NHTSA) issued a final rule regulating fuel efficiency and GHG emissions from cars and light-duty trucks for model year 2011, and in 2010, the U.S. EPA and NHTSA issued a final rule regulating cars and light-duty trucks for model years 2012–2016.

In 2010, an Executive Memorandum was issued directing the Department of Transportation, Department of Energy, U.S. EPA, and NHTSA to establish additional standards regarding fuel efficiency and GHG reduction, clean fuels, and advanced vehicle infrastructure. In response to this directive, the U.S. EPA and NHTSA proposed stringent, coordinated federal GHG and fuel economy standards for model years 2017–2025 light-duty vehicles. The proposed standards projected to achieve 163 grams per mile of $CO_2$ in model year 2025, on an average industry fleet-wide basis, which is equivalent to 54.5 miles per gallon if this level were achieved solely through fuel efficiency.

In addition to the regulations applicable to cars and light-duty trucks described above, in 2011, the U.S. EPA and NHTSA announced fuel economy and GHG standards for medium- and heavy-duty trucks for model years 2014–2018. The standards for $CO_2$ emissions and fuel consumption are tailored to three main vehicle categories: combination tractors, heavy-duty pickup trucks and vans, and vocational vehicles. According to the U.S. EPA, this regulatory program will

reduce GHG emissions and fuel consumption for the affected vehicles by 6 to 23 percent over the 2010 baseline. [4]

In August 2016, the U.S. EPA and NHTSA announced the adoption of the phase two program related to the fuel economy and GHG standards for medium- and heavy-duty trucks. The phase two program will apply to vehicles with model year 2018 through 2027 for certain trailers, and model years 2021 through 2027 for semi-trucks, large pickup trucks, vans, and all types and sizes of buses and work trucks. The final standards are expected to lower $CO_2$ emissions by approximately 1.1 billion metric tons and reduce oil consumption by up to 2 billion barrels over the lifetime of the vehicles sold under the program.

On September 27, 2019, the U.S. EPA and the NHTSA published the "Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One National Program." (84 Fed. Reg. 51,310 (Sept. 27, 2019.)[5] The SAFE Rule (Part One) revoked California's authority to set its own GHG emissions standards and set zero-emission vehicle mandates in California. On March 31, 2020, the U.S. EPA and NHTSA finalized rulemaking for SAFE Part Two sets $CO_2$ emissions standards and corporate average fuel economy (CAFE) standards for passenger vehicles and light duty trucks, covering model years 2021-2026. The current U.S. EPA administration repealed SAFE Rule Part One, effective January 28, 2022, and is reconsidering Part Two.

In December 2021, the U.S. EPA finalized federal GHG emissions standards for passenger cars and light trucks for Model Years 2023 through 2026. These standards are the strongest vehicle emissions standards ever established for the light-duty vehicle sector and are based on sound science and grounded in a rigorous assessment of current and future technologies. The updated standards will result in avoiding more than three billion tons of GHG emissions through 2050.[6]

### 10.4.2 State

The statewide GHG emissions regulatory framework is summarized in this subsection by category: state climate change targets, building energy, renewable energy and energy procurement, mobile sources, water, solid waste, and other state actions. The following text describes EOs, Assembly Bills (ABs), Senate Bills (SBs), and other plans and policies that would directly or indirectly reduce GHG emissions and/or address climate change issues).

[4] EPA and NHTSA. 2016. *Greenhouse Gas Emissions and Fuel Efficiency Standards for Medium and Heavy-Duty Engines and Vehicles – Phase 2*. https://www.gpo.gov/fdsys/pkg/FR-2016-10-25/pdf/2016-21203.pdf.
[5] EPA and NHTSA. 2019. *Federal Register, Vol. 84, No. 188, The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One National Program*. https://www.govinfo.gov/content/pkg/FR-2019-09-27/pdf/2019-20672.pdf.
[6] EPA. 2021. *Final Rule to Revise Existing National GHG Emissions Standards for Passenger Cars and Light Trucks Through Model Year 2026*. https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-revise-existing-national-ghg-emissions.

### Statewide Climate Change Targets

#### Executive Order S-3-05

Executive Order S-3-05 was issued on June 1, 2005, which established the following GHG emissions reduction targets.

- By 2010, reduce greenhouse gas emissions to 2000 levels.
- By 2020, reduce greenhouse gas emissions to 1990 levels.
- By 2050, reduce greenhouse gas emissions to 80 percent below 1990 levels.

The 2050 reduction goal represents what some scientists believe is necessary to reach levels that will stabilize the climate. The 2020 goal was established to be a mid-term target. Because this is an executive order, the goals are not legally enforceable for local governments or the private sector.

#### Assembly Bill 32

AB 32 instructs the CARB to develop and enforce regulations for the reporting and verifying statewide GHG emissions. AB 32 also directed CARB to set a GHG emissions limit based on 1990 levels, to be achieved by 2020. It set a timeline for adopting a scoping plan for achieving GHG reductions in a technologically and economically feasible manner.

#### Executive Order B-30-15

Issued on April 29, 2015, Executive Order B-30-15 established a California GHG reduction target of 40 percent below 1990 levels by 2030 and directs CARB to update the Climate Change Scoping Plan to express the 2030 target in terms of $MMTCO_2e$. The 2030 target acts as an interim goal on the way to achieving reductions of 80 percent below 1990 levels by 2050, a goal set by Executive Order S-3-05. The executive order also requires the state's climate adaptation plan to be updated every three years and for the state to continue its climate change research program, among other provisions. With the enactment of SB 32 in 2016, the Legislature codified the goal of reducing GHG emissions by 2030 to 40 percent below 1990 levels.

#### Senate Bill 32

Signed into law in September 2016, SB 32 codifies the 2030 GHG reduction target in Executive Order B-30-15 (40 percent below 1990 levels by 2030). The bill authorizes CARB to adopt an interim GHG emissions level target to be achieved by 2030. CARB also must adopt rules and regulations in an open public process to achieve the maximum, technologically feasible, and cost-effective GHG reductions.

With SB 32, the Legislature passed companion legislation, AB 197, which provides additional direction for developing the Scoping Plan. On December 14, 2017, CARB adopted a second update to the Scoping Plan. The 2017 Scoping Plan details how the State will reduce GHG emissions to meet the 2030 target set by Executive Order B-30-15 and codified by SB 32. Other

objectives listed in the 2017 Scoping Plan are to provide direct GHG emissions reductions; support climate investment in disadvantaged communities; and support the Clean Power Plan and other Federal actions. In 2022, CARB published the 2022 Scoping Plan, which is discussed below.

### Executive Order B-55-18

Issued on September 10, 2018, Executive Order B-55-18 establishes a goal to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter. This goal is in addition to the existing statewide targets of reducing GHG emissions. The executive order requires CARB to work with relevant state agencies to develop a framework for implementing this goal. It also requires CARB to update the Scoping Plan to identify and recommend measures to achieve carbon neutrality. The executive order also requires state agencies to develop sequestration targets in the Natural and Working Lands Climate Change Implementation Plan.

### Assembly Bill 1279

AB 1279 establishes the policy of the State to achieve carbon neutrality as soon as possible, but no later than 2045; to maintain net negative GHG emissions thereafter; and to ensure that by 2045 statewide anthropogenic GHG emissions are reduced at least 85 percent below 1990 levels. The bill requires CARB to ensure that Scoping Plan updates identify and recommend measures to achieve carbon neutrality, and to identify and implement policies and strategies that enable $CO_2$ removal solutions and carbon capture, utilization, and storage technologies.

### California Air Resources Board's Climate Change Scoping Plan

Adopted December 15, 2022, CARB's 2022 Scoping Plan for Achieving Carbon Neutrality (2022 Scoping Plan) sets a path to achieve targets for carbon neutrality and reduce anthropogenic GHG emissions by 85 percent below 1990 levels by 2045 in accordance with AB 1279. To achieve the targets of AB 1279, the 2022 Scoping Plan relies on existing and emerging fossil fuel alternatives and clean technologies, as well as carbon capture and storage. Specifically, the 2022 Scoping Plan focuses on zero-emission transportation; phasing out use of fossil gas use for heating homes and buildings; reducing chemical and refrigerants with high GWP; providing communities with sustainable options for walking, biking, and public transit; displacement of fossil-fuel fired electrical generation through use of renewable energy alternatives (e.g., solar arrays and wind turbines); and scaling up new options such as green hydrogen.

The key elements of the 2022 CARB Scoping Plan focus on transportation. Specifically, the 2022 Scoping Plan aims to rapidly move towards zero-emission transportation (i.e., electrifying cars, buses, trains, and trucks), which constitutes California's single largest source of GHGs. The regulations that impact the transportation sector are adopted and enforced by CARB on vehicle manufacturers and are outside the jurisdiction and control of local governments. The 2022 Scoping Plan accelerates development of new regulations as well as amendments to strengthen regulations and programs already in place.

Included in the 2022 Scoping Plan is a set of Local Actions (2022 Scoping Plan Appendix D) aimed at providing local jurisdictions with recommendations to reduce GHGs and assist the state in meeting the ambitious targets set forth in the 2022 Scoping Plan. Appendix D to the 2022 Scoping Plan is not regulatory, is not exhaustive, and does not include everything local governments can implement to support the State's climate goals. It focuses primarily on climate action plans (CAPs) and local authority over new residential development. It includes a section on evaluating plan-level and project-level alignment with the State's Climate Goals in CEQA GHG analyses. In this section, CARB identifies several recommendations and strategies that should be considered for new development in order to determine consistency with the 2022 Scoping Plan. CARB specifically states that Section 3 of Appendix D, which discusses land use plans and development projects, does not address land uses other than residential and mixed-use residential such as industrial. However, CARB plans to explore new approaches for other land use types in the future.

### Building Energy

The California Building Standards Code was established in 1978 and serves to enhance and regulate California's building standards. While not initially promulgated to reduce GHG emissions, Part 6 of Title 24 specifically established Building Energy Efficiency Standards that are designed to support that new and existing buildings in California achieve energy efficiency and preserve outdoor and indoor environmental quality. These energy efficiency standards are reviewed every 3 years by the Building Standards Commission and the California Energy Commission (CEC) and revised if necessary (California Public Resources Code Section 25402[b][1]). The regulations receive input from members of industry, as well as the public, to "reduce the wasteful, uneconomic, inefficient, or unnecessary consumption of energy" (California Public Resources Code Section 25402). These regulations are carefully scrutinized and analyzed for technological and economic feasibility (California Public Resources Code Section 25402[d]) and cost effectiveness (California Public Resources Code Section 25402[b][2–3]). As a result, these standards save energy, increase electricity supply reliability, increase indoor comfort, avoid the need to construct new power plants, and help preserve the environment. The current Title 24 standards are the 2022 Title 24 building energy efficiency standards that became effective January 1, 2023.

In addition to CEC's efforts, in 2008, the California Building Standards Commission adopted the nation's first green building standards. The California Green Building Standards Code (Part 11 of Title 24), which is commonly referred to as California's Green Building Standards (CALGreen), establishes minimum mandatory standards and voluntary standards pertaining to the planning and design of sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and interior air quality.

### Renewable Energy and Energy Procurement

#### Senate Bill 1078

SB 1078 (2002) (California Public Utilities Code Section 399.11 et seq.) established the Renewables Portfolio Standard (RPS) program, which required an annual increase in renewable

generation by the electricity utilities equivalent to at least 1% of sales, with an aggregate goal of 20% by 2017. The RPS program has been updated multiple times since its adoption, with the most recent revisions in SB 100 and SB 1020, which are described below.

### Senate Bill 100

SB 100 (2018) increased the standards set forth in SB 350, establishing that 44 percent of the total electricity sold to retail customers in California per year by December 31, 2024; 52 percent by December 31, 2027; and 60 percent by December 31, 2030, be secured from qualifying renewable energy sources. SB 100 states that it is the policy of the state that eligible renewable energy resources and zero-carbon resources supply 100 percent of the retail sales of electricity to California. This bill requires that the achievement of 100 percent zero-carbon electricity resources do not increase the carbon emissions elsewhere in the western grid and that the achievement not be achieved through resource shuffling.

### Senate Bill 1020

SB 1020 (September 2022) revises the standards from SB 100, requiring the following percentage of retail sales of electricity to California end-use customers to come from eligible renewable energy resources and zero-carbon resources: 90 percent by December 31, 2035; 95 percent by December 31, 2040; and 100 percent by December 31, 2045.

#### Mobile Sources

### State Vehicle Standards (Assembly Bill 1493 and Executive Order B-16-12)

AB 1493 (July 2002) was enacted in a response to the transportation sector accounting for more than half of California's $CO_2$ emissions. AB 1493 required CARB to set GHG emission standards for passenger vehicles, light-duty trucks, and other vehicles determined by CARB to be vehicles that are primarily used for noncommercial personal transportation in the state. EO B-16-12 (March 2012) required that state entities under the governor's direction and control support and facilitate the rapid commercialization of ZEVs. On a statewide basis, EO B-16-12 identified a target reduction of GHG emissions from the transportation sector equaling 80 percent less than 1990 levels by 2050.

### Executive Order S-1-07

EO S-1-07 (January 2007, implementing regulation adopted in April 2009) sets a declining Low Carbon Fuel Standard for GHG emissions measured in $CO_2e$ grams per unit of fuel energy sold in California. The target of the Low Carbon Fuel Standard was to reduce the carbon intensity of California passenger vehicle fuels by at least 10 percent by 2020 (17 CCR 95480 et seq.). The carbon intensity measures the amount of GHG emissions in the lifecycle of a fuel—including extraction/feedstock production, processing, transportation, and final consumption—per unit of energy delivered.

### Senate Bill 375

SB 375 (California Government Code Section 65080) addresses GHG emissions associated with the transportation sector through regional transportation and sustainability plans. SB 375 required CARB to adopt regional GHG-reduction targets for the automobile and light-truck sector for 2020 and 2035, and to update those targets every 8 years. SB 375 requires the state's 18 regional metropolitan planning organizations (MPOs) to prepare a Sustainable Communities Strategy (SCS) as part of their Regional Transportation Plan that will achieve the GHG-reduction targets set by CARB. If an MPO is unable to devise an SCS to achieve the GHG-reduction target, the MPO must prepare an alternative planning strategy demonstrating how the GHG-reduction target would be achieved through alternative development patterns, infrastructure, or additional transportation measures or policies.

An SCS does not: (1) regulate the use of land; (2) supersede the land use authority of cities and counties; or (3) require that a city's or county's land use policies and regulations, including those in a general plan, be consistent with it (California Government Code Section 65080[b][2][K]). Nonetheless, SB 375 makes regional and local planning agencies responsible for developing those strategies as part of the federally required metropolitan transportation planning process and the state-mandated housing element process.

### Advanced Clean Cars Program and Zero-Emissions Vehicle Programs

The Advanced Clean Cars (ACC) I program (January 2012) is an emissions-control program for model years 2015 through 2025. The program combines the control of smog- and soot-causing pollutants and GHG emissions into a single coordinated package of regulations: the Low-Emission Vehicle (LEV) regulation for criteria air pollutant and GHG emissions and a technology forcing regulation for ZEVs that contributes to both types of emission reductions. The package includes elements to reduce smog-forming pollution, reduce GHG emissions, promote clean cars, and provide the fuels for clean cars. To improve air quality, CARB has implemented new emission standards to reduce smog-forming emissions beginning with 2015 model year vehicles. It is estimated that in 2025 cars will emit 75 percent less smog-forming pollution than the average new car sold in 2015. The ZEV program will act as the focused technology of the ACC I program by requiring manufacturers to produce increasing numbers of ZEVs and plug-in hybrid EVs in the 2018 to 2025 model years.

The ACC II program, which was adopted in August 2022, established the next set of LEV and ZEV requirements for model years after 2025 to contribute to meeting federal ambient air quality ozone standards and California's carbon neutrality standards. The main objectives of ACC II are as follows:

- Maximize criteria air pollutant and GHG emission reductions through increased stringency and real-world reductions.
- Accelerate the transition to ZEVs through both increased stringency of requirements and associated actions to support wide-scale adoption and use.

The ACC II rulemaking package also considers technological feasibility, environmental impacts, equity, economic impacts, and consumer impacts.

### Executive Order N-79-20

EO N-79-20 (September 2020) requires CARB to develop regulations as follows: (1) Passenger vehicle and truck regulations requiring increasing volumes of new ZEVs sold in the state towards the target of 100 percent of in-state sales by 2035; (2) medium- and heavy-duty vehicle regulations requiring increasing volumes of new zero-emission trucks and buses sold and operated in the state towards the target of 100 percent of the fleet transitioning to ZEVs by 2045 everywhere feasible and for all drayage trucks to be zero emission by 2035; and (3) strategies, in coordination with other state agencies, the EPA, and local air districts, to achieve 100 percent zero emissions from off-road vehicles and equipment operations in the state by 2035.

## Water

### Assembly Bill 1668 and Senate Bill 606

AB 1668 (2018) and SB 606 (2018) build on Governor Brown's ongoing efforts to make water conservation a way of life in California and create a new foundation for long-term improvements in water conservation and drought planning. SB 606 and AB 1668 establish guidelines for efficient water use and a framework for the implementation and oversight of the new standards. The two bills strengthen the state's water resiliency in the face of future droughts.

## Solid Waste

### Assembly Bill 1826

AB 1826 (Chapter 727, Statutes of 2014, effective 2016) requires businesses to recycle their organic waste (i.e., food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food-soiled paper waste that is mixed in with food waste) depending on the amount of waste they generate per week. The minimum threshold of organic waste generation by businesses decreases over time, which means an increasingly greater proportion of the commercial sector will be required to comply.

### Senate Bill 1383

SB 1383 (2016) requires a 50 percent reduction in organic waste disposal from 2014 levels by 2020 and a 75 percent reduction by 2025—essentially requiring the diversion of up to 27 million tons of organic waste—to reduce GHG emissions. SB 1383 also requires that not less than 20 percent of edible food that is currently disposed be recovered for human consumption by 2025.

#### Other State Actions

##### Senate Bill 97

SB 97 (2007) directed the Governor's Office of Planning and Research and CNRA to develop guidelines under CEQA for the mitigation of GHG emissions. CNRA adopted the CEQA Guidelines amendments in December 2009, which became effective in March 2010.

Under the amended CEQA Guidelines, a lead agency has the discretion to determine whether to use a quantitative or qualitative analysis or apply performance standards to determine the significance of GHG emissions resulting from a particular project (14 CCR 15064.4[a]). The CEQA Guidelines require a lead agency to consider the extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions (14 CCR 15064.4[b]). The CEQA Guidelines also allow a lead agency to consider feasible means of mitigating the significant effects of GHG emissions, including reductions in emissions through the implementation of project features or off-site measures (14 CCR 15126.4[c]). The adopted amendments do not establish a GHG emission threshold, instead allowing a lead agency to develop, adopt, and apply its own thresholds of significance or those developed by other agencies or experts. CNRA also acknowledged that a lead agency could consider compliance with regulations or requirements implementing AB 32 in determining the significance of a project's GHG emissions.

With respect to GHG emissions, CEQA Guidelines Section 15064.4(a), as subsequently amended in 2018, states that lead agencies "shall make a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate" GHG emissions. The CEQA Guidelines now note that an agency "shall have discretion to determine, in the context of a particular project, whether to: (1) Quantify greenhouse gas emissions resulting from a project; and/or (2) Rely on a qualitative analysis or performance-based standards" (14 CCR 15064.4[a]). Section 15064.4(b) states that the lead agency should consider the following when assessing the significance of impacts from GHG emissions on the environment: (1) the extent to which a project may increase or reduce GHG emissions as compared to the existing environmental setting; (2) whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project; and (3) the extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions (14 CCR 15064.4[b]).

### 10.4.3 Regional & Local

#### Association of Monterey Bay Area Governments

The Association of Monterey Bay Area Governments (AMBAG) is the MPO for the region, which includes Monterey, San Benito, and Santa Cruz counties. In June 2022, AMBAG adopted the Monterey Bay 2045 Moving Forward – 2045 Metropolitan Transportation Plan/Sustainable Communities Strategy (2045 MTP/SCS), the implementation of which is anticipated to achieve a 4 percent-per-capita reduction and nearly 7 percent-per-capita reduction in GHG emissions from passenger vehicles by 2020 and 2035, respectively. The 2045 MTP/SCS outlines the

region's proposed transportation network, emphasizing multimodal system enhancements, system preservation, and improved access to high quality transit, as well as land use development that complements this transportation network. In addition, AMBAG is working with the Santa Barbara County Association of Governments and the San Luis Obispo Council of Governments to develop the Central Coast Zero Electric Vehicle Strategy that will identify gaps and opportunities to implement zero-emission vehicle infrastructure on the Central Coast, including on or near the State Highway System, major freight corridors, and transit hubs. These transportation strategies would reduce vehicle miles traveled (VMT) and associated petroleum fuels.

#### Monterey Bay Air Resources District

California has 35 Air Pollution Control Districts and Air Quality Management Districts, many of which are currently addressing climate change issues by developing significance thresholds, performance standards, and mitigation measures. The Monterey Bay Air Resources District (MBARD) is the regional agency responsible for the regulation and enforcement of federal, state, and local air pollution control regulations in the North Central Coast Air Basin (Air Basin), where the Project is located.

#### City of Scotts Valley General Plan

The City of Scotts Valley has not adopted a Climate Action Plan and the City does not have specific guidelines regarding greenhouse gas emissions.

## 10.5 Environmental Impacts and Mitigation Measures

### 10.5.1 Significance Thresholds

According to the adopted Appendix G of the *State CEQA Guidelines*, impacts related to GHG emissions from a project would be significant if the project would:

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

Determining significance follows available guidelines from State or local air quality management agencies, where available. However, there is no legally adopted threshold to guide City of Scotts Valley decision-makers in determining what emission levels constitute a significant amount. Rules and policies being developed by CARB are used here, although they are evolving in response to the serious threat of climate change effects and subsequent legislation.

MBARD does not yet recommend any method or threshold for determining significance of climate change impacts or greenhouse gas emissions from a project and its operation. Nonetheless, GHG emissions caused by any project subject to CEQA must be described for a

lead agency to determine the significance of impacts. The 2010 State CEQA Guidelines (Section 15064.4) provide the following direction for the assessment and mitigation of GHG emissions:

- A lead agency should make a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate the amount of greenhouse gas emissions resulting from a project.
- A lead agency should consider the extent to which the project may increase or reduce greenhouse gas emissions as compared to the existing environmental setting.
- A lead agency should consider the extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions.

As stated above, MBARD and City have not adopted GHG emissions thresholds. The CARB 2022 Scoping Plan, which provides a framework to achieve targets for carbon neutrality and reduce anthropogenic GHG emissions by 85 percent below 1990 levels by 2045 in accordance with AB 1279, does not provide specific guidance to local jurisdictions for determining the amount of emission reductions to be achieved from land use projects. Instead, it includes a set of Local Actions (2022 Scoping Plan Appendix D) aimed at providing local jurisdictions with recommendations to reduce GHGs and assist the state in meeting the ambitious targets set forth in the 2022 Scoping Plan.

The potential for the project to generate GHG emissions that may have a significant impact on the environment or conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing emissions of GHG was assessed by examining the project's consistency with the GHG goals and reduction measures detailed in the 2022 Scoping Plan. A project would not have a significant GHG impact if it is consistent with applicable plans, policies, and regulations to reduce GHG emissions.

For CEQA analyses, project related GHG impacts can be categorized as either direct or indirect. Direct emissions refer to those emitted by stationary sources at the project site or caused by project activity on-site, and these emissions are normally within control of the project sponsor or applicant. Indirect emissions include those emissions that are not within the direct control of the project sponsor or applicant, but may occur as a result of the project, such as the motor vehicle emissions induced by the project. Indirect emissions include emissions from any off-site facilities used for project support as a result of the construction or operation of a project, and these emissions are likely to occur outside the control of the project far off-site or even outside of California.

Construction-phase GHG emissions are quantified as part of the air quality impact assessment (see Chapter 6, Air Quality and Appendix B: CalEEMod Air Quality Analysis for supporting calculations).

The effects of the project are also considered based on whether the project implements reduction strategies identified in AB 32, the Governor's Executive Order S-14-08, or other

strategies to help reduce GHGs to the level proposed by the Governor. If so, it could reasonably follow that the project would not result in a significant contribution to the cumulative impact of global climate change.

### 10.5.2 Study Methodology

The project's construction and operational emissions were calculated using the California Emissions Estimator Model version 2021 (CalEEMod). Details of the modeling assumptions and emission factors are provided in Appendix B: CalEEmod Air Quality Analysis. For construction, CalEEMod calculates emissions from off-road equipment usage and on-road vehicle travel associated with haul, delivery, and construction worker trips. The project's construction-related GHG emissions were forecasted based on the proposed construction schedule and applying the mobile-source and fugitive dust emissions factors derived from CalEEMod. The project's construction-related GHG emissions would be generated from off-road construction equipment, on-road hauling, and vendor (material delivery) trucks, and worker vehicles.

The project's operations related GHG emissions would be generated by vehicular traffic, area sources (e.g., landscaping maintenance, consumer products), electrical generation, natural gas consumption, water supply and wastewater treatment, and solid waste.

Details of the modeling assumptions and emission factors are provided in Appendix B: CalEEMod Air Quality Analysis, and a summary of adjustments is provided below.

### 10.5.3 Cumulative Impact Analysis

It is generally the case that an individual project of the project's size and nature is of insufficient magnitude by itself to influence climate change or result in a substantial contribution to the global GHG inventory. GHG impacts are recognized as exclusively cumulative impacts; there are no non-cumulative GHG emission impacts from a climate change perspective. The additive effect of project related GHG emissions would not result in a reasonably foreseeable cumulatively considerable contribution to global climate change. In addition, the project as well as other cumulative related projects, would be subject to all applicable regulatory requirements, which would further reduce GHG emissions.

Impact GHG-1: Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment.

Impact GHG-2: Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases.

#### Construction Emissions

Construction of the project would result in direct emissions of $CO_2$, $N_2O$, and $CH_4$ from the operation of construction equipment and the transport of materials and construction workers to and from the project site. MBARD does not have a threshold for construction GHG emissions,

which are one-time, short-term emissions and therefore would not significantly contribute to long-term cumulative GHG emissions impacts of the project.

However, the construction GHG emissions are disclosed and a determination on the significance of construction GHG emissions in relation to meeting AB 32 GHG reduction goals should be made. Total GHG emissions generated during all phases of construction were combined and are presented in Table 10-2: Construction Greenhouse Gas Emissions. The CalEEMod outputs are contained in Appendix B: CalEEmod Air Quality Analysis. As mentioned previously, the MBARD does not have an appropriate quantitative threshold for construction GHG emissions. Thus, the construction emissions are shown purely for informational purposes.

**Table 10-2: Construction Greenhouse Gas Emissions**

| Construction Year | $MTCO_2e$[1] |
|---|---|
| 2025 | 571 |
| 2026 | 420 |
| 2027 | 417 |
| 2028 | 200 |
| **Total** | **1,608** |

Notes:
1. Due to rounding, total $MTCO_2e$ may be marginally different from CalEEMod output. $MTCO_2e$ = metric tons of carbon dioxide equivalent.
Source: CalEEMod version 2022. Refer to Appendix B: CalEEMod Air Quality Analysis for model outputs.

### Operational Emissions

Operational or long-term emissions would occur over the project's life. GHG emissions would result from direct emissions such as project generated vehicular traffic, on-site combustion of natural gas, and operation of any landscaping equipment. Operational GHG emissions would also result from indirect sources, such as off-site generation of electrical power over the life of the project, the energy required to convey water to, and wastewater from the project site, the emissions associated with solid waste generated from the project site, and any fugitive refrigerants from air conditioning or refrigerators. Table 10-3: Operational Greenhouse Gas Emissions, summarizes the total GHG emissions associated with the project.

**Table 10-3: Operational Greenhouse Gas Emissions**

| Category | $MTCO_2e$ [1] |
|---|---|
| Area Source | 163 |
| Energy | 557 |
| Mobile | 2,170 |
| Waste | 70 |
| Water and Wastewater | 23 |
| **Total Project** [2] | **2,985** |

Notes:
1. Emissions may not total due to rounding.
Source: CalEEMod version 2022. Refer to Appendix B: CalEEMod Air Quality Analysis for model outputs.

Project development would emit approximately 2,985 $MTCO_2e$ per year (see Appendix B: CalEEMod Air Quality Analysis), directly from on-site activities and indirectly from off-site motor vehicles. The project would meet CalGreen and CBC standards for energy efficiency standards. Additionally, the project includes water-efficient landscape, water-reducing features, and low-impact development practices to reduce water use. The project is an example of "smart growth" strategies based on infill, density, and unit types. As mentioned previously, the MBARD does not have an appropriate quantitative threshold for GHG emissions. Thus, the emissions are shown for purely informational purposes.

As shown in Table 10-3, the majority of GHG emissions associated with the Project are from mobile and energy use (approximately 73 percent). Because GHG emissions from covered entities are accounted in the State's GHG future inventories and reduction targets and are subject to existing regulatory schemes to reduce emissions, those emissions are considered consistent with the 2022 Scoping Plan Update. As such, GHG emissions resulting from mobile sources and electricity generation to serve the Project's demands are not the primary consideration in determining the significance of the Project's GHG emissions.

### CARB Scoping Plan

As previously noted, the 2022 Scoping Plan sets a path to achieve targets for carbon neutrality and reduce anthropogenic GHG emissions by 85 percent below 1990 levels by 2045 in accordance with AB 1279. The transportation, electricity, and industrial sectors are the largest GHG contributors in the State. The 2022 Scoping Plan plans to achieve the AB 1279 targets primarily through zero-emission transportation (e.g., electrifying cars, buses, trains, and trucks). Additional GHG reductions are achieved through decarbonizing the electricity and industrial sectors.

Statewide strategies to reduce GHG emissions in the latest 2022 Scoping Plan include implementing SB 100, which would achieve 100 percent clean electricity by 2045; achieving 100 percent zero emission vehicle sales in 2035 through Advanced Clean Cars II; and implementing the Advanced Clean Fleets regulation to deploy zero-electric vehicle buses and trucks.

Additional transportation policies include the Off-Road Zero-Emission Targeted Manufacturer rule, Clean Off-Road Fleet Recognition Program, In-use Off-Road Diesel-Fueled Fleets Regulation, Off-Road Zero-Emission Targeted Manufacturer rule, Clean Off-Road Fleet Recognition Program, and Amendments to the In-use Off-Road Diesel-Fueled Fleets Regulation. The 2022 Scoping Plan would continue to implement SB 375. GHGs would be further reduced through the Cap-and-Trade Program carbon pricing and SB 905. SB 905 requires CARB to create the Carbon Capture, Removal, Utilization, and Storage Program to evaluate, demonstrate, and regulate carbon dioxide removal projects and technology.

The Project would implement the MBARD's rules and regulations during construction. For example, a few of the construction measures include enforcing idling time restrictions on construction vehicles, use of added exhaust muffling and filtering devices, replant vegetation in disturbed areas as quickly as possible, and posting a publicly visible sign with the telephone number and person at the lead agency to contact regarding dust complaints.

Further, the Project's GHG emissions associated with energy and mobile sources (approximately 91 percent) would be further reduced by the 2022 Scoping Plan measures described above. It should be noted that the City has no control over vehicle emissions, however, these emissions would decline in the future due to Statewide measures discussed above, as well as cleaner technology and fleet turnover.

The Project would not impede the State's progress towards carbon neutrality by 2045 under the 2022 Scoping Plan. The project would be required to comply with applicable current and future regulatory requirements promulgated through the 2022 Scoping Plan.

### CARB Scoping Plan Appendix D

The 2022 CARB Scoping Plan includes a set of Local Actions set forth in Appendix D to the Scoping Plan, which aim at providing local jurisdictions with tools to reduce GHG emissions in order to assist the State in reaching the reduction targets set forth in the 2022 Scoping Plan. Appendix D to the 2022 Scoping Plan includes a section for evaluating plan-level and project-level alignment with the State's Climate Goals within CEQA GHG analysis. Within this section, CARB identifies multiple recommendations and strategies that should be considered for new development in order to demonstrate consistency with the 2022 Scoping Plan. Specifically, this section is focused on strategies for residential and mixed-use projects. The document is organized into two categories: examples of plan-level GHG reduction actions that could be implemented by local governments and examples of onsite project design features and mitigation measures that could be applied to individual projects under CEQA.

The Project would include a number of the example project design features from the 2022 CARB Scoping Plan for construction and operation. For instance, the Scoping Plan's construction measures include enforcing idling time restrictions on construction vehicles, requiring construction vehicles to operate the highest tier engines commercially available, diverting and recycling construction waste, minimizing tree removal, and increased use of electric and

renewable fuel powered construction equipment and required renewable diesel fuel where commercially available.

Appendix D Notes that residential and mixed-use projects that meet the following three priority areas are clearly consistent with the State's goals and would accommodate growth in a manner which is consistent with the State's GHG reduction and equity prioritization goals.

- Transportation Electrification. Table 3 in Appendix D to the 2022 CARB Scoping Plan notes that to be clearly consistent with the State's goals, projects should provide EV charging infrastructure. The Project would be solar ready by including building roof space and conduit infrastructure for a "Future PV Array" per California Code. The Project would also provide a large amount of bicycle parking on-site for both the residential and commercial use.
- VMT Reduction. The Scoping Plan notes that to be consistent with the VMT reduction attribute, projects should be located on infill sites that are surrounded by existing urban uses and reuses or redevelops previously undeveloped or underutilized land that is presently served by existing utilities and essential public services (e.g., transit, streets, water, sewer); do not result in the loss or conversion of natural and working lands; and consist of transit-supportive densities (minimum of 20 residential dwelling units per acre). The Project is an infill project surrounded by existing urban uses, does not result in the loss of natural and working lands (i.e., it would develop on an undeveloped site), and has a density of approximately 196 dwelling units on a 30-acre site. The project is also locating residential and other uses next to existing and proposed commercial retail services, office, and other uses.
- Building Decarbonization. Building decarbonization involves maximizing energy efficiency and eliminating the use of fossil fuel consumption. As mentioned above, The project would comply with the latest energy efficiency standards. The State goal is to increase the use of green building practices. The project would implement required green building strategies through existing regulations that requires the project to comply with various CalGreen requirements. Further, the project would not be wasteful or inefficient with its energy usage. Therefore, the project would be developed in a manner that promotes energy efficiency and minimizes the reliance on fossil fuels.

As the project would implement key residential and mixed-use project attributes included in Appendix D, the project would be consistent with the actions and strategies set forth in Appendix D of the 2022 CARB Scoping Plan and would be consistent with the 2022 CARB Scoping Plan and the State's GHG reduction goals.

### 10.5.4 Level of Significance after Mitigation

Table 10-4: Summary of Impacts and Mitigation Measures- Greenhouse Gas Emissions summarizes the environmental impacts, significance determinations, and mitigation measures for residential development on the project site resulting from the project with regard to greenhouse gas emissions.

**Table 10-4: Summary of Impacts and Mitigation Measures- Greenhouse Gas Emissions**

| Impact | Impact Significance | Mitigation |
|---|---|---|
| Impact GHG-1: Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment. | Less than Significant | None required |
| Impact GHG-2: Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases. | Less than Significant | None required |

## 10.6 References

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# 11 Hazards & Hazardous Materials

## 11.1 Introduction

This section describes hazards and hazardous materials impacts associated with residential development pursuant to the project. Information used to prepare this section came from the following resources:

- Ramboll US Consulting, Phase 1 Environmental Site Assessment, Pond Sediment Sampling, and Subsurface Investigation, May 2022 (see Appendix F)
- City of Scotts Valley, Scotts Valley General Plan, November 2023.
- Terraphase Engineering, Soil Gas Assessment Report, Scotts Valley Dry Cleaners. August 21. 2018.
- Terraphase Engineering, Semi-Annual Monitoring Report, January 1 to June 30, 2021, Scotts Valley Dry Cleaners, August 30, 2021.

## 11.2 Scoping Issues Addressed

During the scoping period for the project, no written comments by agencies and the public regarding hazards and hazardous materials were received.

## 11.3 Environmental Setting

### 11.3.1 Site Hydrology

The project site lies within the Santa Margarita Basin, which consists of a sequence of sandstone, siltstone, and shale that is underlain by granitic rock. The geologic formations of the Santa Margarita Basin that contain significant sandstone layers are also the primary hydro stratigraphic units, or aquifers, for water supply. The three principal hydro stratigraphic units beneath the project site are, from shallowest to deepest, the Santa Margarita, Monterey, and Lompico formations. Historically, the majority of the water supply in the Scotts Valley area has been derived from the Santa Margarita and Lompico units, in addition to the deeper Butano unit.

As described in the Phase I report by Ramboll (see Appendix F), a preliminary assessment was conducted at the site on July 8, 1985, by Ecology and Environment, Inc. (E&E), a subcontractor of the US Environmental Protection Agency (EPA), regarding the sources of toxic contamination entering the federally designated “sole source” Santa Margarita aquifer. According to the 1985 CERCLA Inspection report, the Santa Margarita Aquifer is an unconsolidated sandstone aquifer that underlies the greater Scotts Valley area with depth to water measurements generally between 20 to 140 feet bgs.

The preliminary assessment concluded that a site inspection was necessary to evaluate potential environmental hazards associated with effluent discharge to Valley Gardens Golf

Course. The effluent originated from the Scotts Valley Wastewater Treatment Plan (SVWTP), whose influent was composed of wastewater from various industrial and residential sources. From 1967 to 1983, treated wastewater was sold by SVTP to the site for irrigation purposes.

Once the golf course and on-site ponds were constructed in 1971, the effluent was discharged into on-site ponds and subsequently used for irrigation of the golf course. At the time, treated wastewater from SVWTP was not monitored for organic constituents or cyanide and treated wastewater has not been used at Valley Gardens Golf course since 1983. In 1985, several organic chemicals and cyanide were detected in trace amounts within the SVWTP effluent.

E&E could not discount nor confirm the likelihood of on-site contamination due to the uncertain chemical nature of SVWTP effluent discharge to Valley Gardens Golf Course. Therefore, E&E recommended that the site be given “special consideration” in future groundwater sampling plans and remedial investigations developed as part of the Santa Margarita/Scotts Valley Contamination Study. No additional information was available regarding whether these recommendations were ever implemented, or whether any additional follow-up inspections or investigations were conducted on behalf of USEPA.

### 11.3.2 Historical Uses on the Project Site

Aerial photographs dating back to 1940 indicate the project site remained undeveloped grassland until 1948, with the exception of a topographic map from 1902 that shows a small structure in the northeastern portion of the site. Between 1948 and 1968, the site remained largely undeveloped with a number of small dirt roads traveling though the southern portion of the site and a number of small structures, likely used for residential or agricultural purposes.

Construction of the former Valley Gardens Golf Course and associated structures began in 1971 and was completed by 1974. According to the 1985 CERCLA Site Inspection report, the site accepted treated wastewater effluent from SVTP between 1967 and 1983 and used it for irrigation. Once the golf course and on-site ponds were constructed in 1971, the effluent was stored in the former ponds and used for irrigation of the golf course (Ramboll 2022).

To construct the mounds on the golf course, the facility reportedly imported fill from a construction project off the east side of Highway 17 near Santa’s Village Road. The course maintained approximately the same layout throughout its existence with the putting greens always in the same location. The dry ponds are reportedly lined with bentonite according to the current landowner, Ms. Woodruff (Ramboll 2022).

A 350-gallon above-ground storage tank that stored gasoline and three 55-gallon drums that stored diesel were formerly located at the golf course corporation yard. The tank and drums were emptied via on-site use by power landscaping equipment and subsequently taken to Boulder Creek Golf Course as empty vessels. Additionally, various fertilizers, liquid pesticides, fungicides, and algaecides, and various maintenance chemicals including 15 gallons of hydraulic oil, were formerly stored at the site, primarily in the corporation yard.

Historically, fertilizers were applied to the fairways once per year and to the greens up to six times per year, fairways were sprayed with pesticides for weeds up to twice per year, fungicides were sprayed on the greens up to eight times per year, and the reservoirs were treated with algicides twice per year. The materials that were not utilized by the golf course were taken offsite by a hazardous materials waste disposal company in approximately 2019.

### 11.3.3 Off-site Hazards

#### Scotts Valley Dry Cleaners

As described in the Revised Remedy Optimization Report by Arcadis (June 2015), beginning in 1999, the presence of tetrachloroethene (PCE) was detected migrating from the Scotts Valley Dry Cleaners, located approximately 200 feet north of the project site. A release resulting in PCE and trichloroethylene (TCE) impacts to groundwater at the Scotts Valley Dry Cleaners occurred sometime after 1985. PCE has been detected in groundwater up to a concentration of 29,000 µg/L. Central Coast Regional Water Quality Control Board (CCRWQCB) is currently providing regulatory oversight of the investigation and cleanup of the property.

As shown in Figure 11-1: Scotts Valley Dry Cleaners PCE Isocontour Map, the PCE plume migrates north as far as the Aviza property, as evidenced by the observed hydraulic and concentration gradients of PCE beneath the project site.

Groundwater remediation has focused on the groundwater beneath the Scotts Valley Dry Cleaners. Several remedial technologies have been employed for shallow soil and groundwater including soil vapor extraction, air sparge, carbohydrate solution injection, high vacuum dual phase extraction, groundwater extraction, and permanganate injection, resulting in improvements in perched groundwater quality.

Soil gas samples collected in 2018 by Terraphase Engineering from dual-depth soil vapor well SG-2 approximately 150 north-northeast of the project site reported PCE concentrations of 53.9 micrograms per cubic meter (µg/m3) and 3,070 µg/m3 in samples collected from 5 and 10 feet below ground surface (bgs), respectively. In June 2021, Terraphase Engineering collected groundwater samples from monitoring wells MW-09 and MW-13A, located approximately 100 feet north and east, respectively, of the northern portion of the project site reported concentrations of PCE of 659 micrograms per liter (µg/L) in MW-09 and 8.23 µg/L in MW-13A. The locations and PCE concentrations in soil gas probe SG-2 and monitoring wells MW-09 and MW-13A relative to the site are shown on Figure 11-2: Hazard Sample Location Map.

Historical groundwater flow direction at Scotts Valley Dry Cleaners has been variable, with the groundwater flow directions to the east and south-southeast in the most recent groundwater monitoring event in June 2021. Assuming an approximate groundwater flow direction to the south-southeast, it is possible that PCE concentrations in groundwater from the Scotts Valley Dry Cleaners property may extend underneath the northern and/or northeastern boundaries of the project site.

### Other Potential Hazards

Other hazards that have the potential to impact the project site are wildland fire hazards and accidental release of hazardous materials transported on nearby roadways. These hazards are discussed more fully below. Chapter 12: Hydrology and Water Quality, discusses potential hazards related to dam failure and flooding.

#### Wildland Fire Hazards

Wildfires are large-scale brush and grass fires in undeveloped areas. Wildfires are often caused by human activities, such as equipment use, campfires, and smoking, and can result in loss of valuable wildlife habitat, soil erosion, and damage to life and property. The level of wildland fire risk is determined by a number of factors, including:

- Frequency of critical fire weather;
- Percentage of slope;
- Existing fuel (vegetation, ground cover, building materials);
- Adequacy of access to fire suppression services; and
- Water supply and water pressure.

#### Hazardous Materials Transport on Roadways

The project site is not located adjacent to a roadway used for the transport of hazardous wastes and materials. Nonetheless, all transport of hazardous materials are subject to federal, state, and local regulations to minimize impacts associated with the transportation of hazardous materials.

#### Airport Proximity

The nearest public airport, public use airport, and/or private airstrip is the Watsonville Municipal Airport, located approximately 16 miles southeast of the project site.

#### Emergency Response Plan

The project site is not located within the area of or within the direct vicinity of an emergency response plan. Emergency access to/from the project site is provided by the existing on-site roadway connecting the project site to Mt. Hermon Road.

## 11.4 Applicable Regulations, Plans, and Standards

The management of hazardous materials and hazardous wastes is regulated at federal, State, and local levels, including, among others, through programs administered by U.S. EPA; departments within the California Environmental Protection Agency (CalEPA), such as the Department of Toxic Substances Control (DTSC); federal and State occupational safety agencies; and the Santa Cruz County Environmental Health Services Division. Regulations pertaining to

flood hazards are discussed in Chapter 12: Hydrology and Water Quality, and regulations for geologic and soil-related hazards are discussed in Chapter 9: Geology and Soils.

### 11.4.1 Federal

#### Toxic Substances Control Act/Resource Conservation and Recovery Act/Hazardous and Solid Waste Act

The federal Toxic Substances Control Act of 1976 and Resource Conservation and Recovery Act (RCRA) established a program administered by U.S. EPA for the regulation of the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA was amended in 1984 by the Hazardous and Solid Waste Act (HSWA), which affirmed and extended the "cradle to grave" system of regulating hazardous wastes.

#### Comprehensive Environmental Response, Compensation, and Liability Act/Superfund Amendments and Reauthorization Act

The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), commonly known as Superfund, was enacted by Congress on December 11, 1980. This law (U.S. Code Title 42, Chapter 103) provides broad federal authority to respond directly to releases or threatened releases of hazardous substances that may endanger public health or the environment. CERCLA establishes requirements concerning closed and abandoned hazardous waste sites; provides for liability of persons responsible for releases of hazardous waste at these sites; and establishes a trust fund to provide for cleanup when no responsible party can be identified. CERCLA also enables the revision of the National Contingency Plan (NCP). The NCP (Title 40, Code of Federal Regulation [CFR], Part 300) provides the guidelines and procedures needed to respond to releases and threatened releases of hazardous substances, pollutants, and/or contaminants. The NCP also established the National Priorities List. CERCLA was amended by the Superfund Amendments and Reauthorization Act on October 17, 1986.

#### Clean Water Act/SPCC Rule

The Clean Water Act (CWA) (33 U.S.C. Section 1251 et seq., formerly the Federal Water Pollution Control Act of 1972), was enacted with the intent of restoring and maintaining the chemical, physical, and biological integrity of the waters of the United States. The CWA requires states to set standards to protect, maintain, and restore water quality through the regulation of point source and certain non-point source discharges to surface water. Those discharges are regulated by the National Pollutant Discharge Elimination System (NPDES) permit process (CWA Section 402). In California, NPDES permitting authority is delegated to, and administered by, the nine Regional Water Quality Control Boards (RWQCBs). The proposed project is within the jurisdiction of the Central Coast RWQCB.

Section 402 of the Clean Water Act authorizes the California State Water Resources Control Board (SWRCB) to issue NPDES General Construction Storm Water Permit (Water Quality Order 99-08-DWQ), referred to as the "General Construction Permit." Construction activities can comply with and be covered under the General Construction Permit provided that they:

- Develop and implement a Storm Water Pollution Prevention Plan (SWPPP) which specifies Best Management Practices (BMPs) that will prevent all construction pollutants from contacting stormwater and with the intent of keeping all products of erosion from moving off-site into receiving waters;
- Eliminate or reduce non-stormwater discharges to storm sewer systems and other waters of the nation; and
- Perform inspections of all BMPs.

Projects that disturb one or more acres are required to obtain NPDES coverage under the Construction General Permits.

Pursuant to the CWA, U.S. EPA oversees and enforces the Oil Pollution Prevention regulation contained in Title 40 of the CFR, Part 112 (Title 40 CFR, Part 112) which is often referred to as the "SPCC rule" because the regulations describe the requirements for facilities to prepare, amend and implement Spill Prevention, Control, and Countermeasure (SPCC) Plans. A facility is subject to SPCC regulations if a single oil (or gasoline, or diesel fuel) storage tank has a capacity greater than 660 gallons, the total aboveground oil storage capacity exceeds 1,320 gallons, or the underground oil storage capacity exceeds 42,000 gallons, and if, due to its location, the facility could reasonably be expected to discharge oil into or upon the "Navigable Waters" of the United States.

### Occupational Safety and Health Administration (OSHA)

OSHA's mission is to ensure the safety and health of workers by setting and enforcing standards; providing training, outreach, and education; establishing partnerships; and encouraging continual improvement in workplace safety and health. OSHA standards are listed in Title 29 CFR Part 1910.

OSHA's Hazardous Waste Operations and Emergency Response Standard (HAZWOPER) applies to five distinct groups of employers and their employees. These groups include any employees who are exposed or potentially exposed to hazardous substances — including hazardous waste — and who are engaged in one of the following operations:

- Clean-up operations — required by a governmental body, whether federal, State, local, or other involving hazardous substances — that are conducted at uncontrolled hazardous waste sites;
- Corrective actions involving clean-up operations at sites covered by RCRA as amended (42 U.S.C. 6901 et seq.);
- Voluntary clean-up operations at sites recognized by federal, state, local, or other governmental body as uncontrolled hazardous waste sites;
- Operations involving hazardous wastes that are conducted at treatment, storage, and disposal facilities regulated by Title 40 Code of Federal Regulations Parts 264 and 265

pursuant to RCRA, or by agencies under agreement with U.S. EPA to implement RCRA regulations; and,

- Emergency response operations for releases of, or substantial threats of releases of, hazardous substances regardless of the location of the hazard.

### 11.4.2 State

#### Hazardous Materials Release Response Plans and Inventory Act of 1985

The California Health and Safety Code, Division 20, Chapter 6.95, known as the Hazardous Materials Release Response Plans and Inventory Act or the Business Plan Act, requires businesses using hazardous materials to prepare a plan that describes their facilities, inventories, emergency response plans, and training programs. Businesses must submit this information to the County Environmental Health Services Division. The Environmental Health Services Division verifies the information and provides it to agencies responsible for protection of public health and safety and the environment. Business Plans are required to include emergency response plans and procedures in the event of a reportable release or threatened release of a hazardous material, including, but not limited to, all of the following:

- Immediate notification to the administering agency and to the appropriate local emergency rescue personnel.
- Procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment.
- Evacuation plans and procedures, including immediate notice, for the business site.

Business Plans are also required to include training for all new employees, and annual training, including refresher courses, for all employees in safety procedures in the event of a release or threatened release of a hazardous material.

#### Hazardous Waste Control Act

The Hazardous Waste Control Act (HWCA) created the State hazardous waste management program, which is similar to but more stringent than the federal RCRA program. HWCA is implemented by regulations contained in Title 26 of the CCR, which describes the following required aspects for the proper management of hazardous waste: identification and classification; generation and transportation; design and permitting of recycling, treatment, storage, and disposal facilities; treatment standards; operation of facilities and staff training; and closure of facilities and liability requirements. These regulations list more than 800 materials that may be hazardous and establish criteria for identifying, packaging, and disposing of such waste. Under HWCA and Title 26, the generator of hazardous waste must complete a manifest that accompanies the waste from generator to transporter to the ultimate disposal location. Copies of the manifest must be filed with DTSC.

### Unified Hazardous Waste and Hazardous Materials Management Regulatory Program

The Unified Hazardous Waste and Hazardous Materials Management Regulatory Program (Unified Program) required the administrative consolidation of six hazardous materials and waste programs (Program Elements) under one agency, a Certified Unified Program Agency (CUPA). The Program Elements consolidated under the Unified Program are: Hazardous Waste Generator and On-site Hazardous Waste Treatment Programs (a.k.a. Tiered Permitting); Aboveground Petroleum Storage Tank Spill Prevention Control and Countermeasure Plan (SPCC); Hazardous Materials Release Response Plans and Inventory Program (a.k.a. Hazardous Materials Disclosure or "Community-Right-To-Know"); California Accidental Release Prevention Program (Cal ARP); Underground Storage Tank (UST) Program; and Uniform Fire Code Plans and Inventory Requirements.

The Unified Program is intended to provide relief to businesses complying with the overlapping and sometimes conflicting requirements of formerly independently managed programs. The Unified Program is implemented at the local government level by CUPAs. Most CUPAs have been established as a function of a local environmental health or fire department. Some CUPAs have contractual agreements with another local agency, a participating agency, which implements one or more Program Elements in coordination with the CUPA.

### Department of Toxic Substance Control (DTSC)

DTSC is a department of Cal EPA and is the primary agency in California that regulates hazardous waste, cleans up existing contamination, and looks for ways to reduce the hazardous waste produced in California. DTSC regulates hazardous waste in California primarily under the authority of the federal RCRA and the California Health and Safety Code (primarily Division 20, Chapters 6.5 through 10.6, and Title 22, Division 4.5). Other laws that affect hazardous waste are specific to handling, storage, transportation, disposal, treatment, reduction, cleanup, and emergency planning. Government Code §65962.5 (commonly referred to as the Cortese List) includes DTSC-listed hazardous waste facilities and sites, California Department of Health Services (DHS) lists of contaminated drinking water wells, sites listed by the SWRCB as having UST leaks and which have had a discharge of hazardous wastes or materials into the water or groundwater and lists from local regulatory agencies of sites that have had a known migration of hazardous waste/material.

### Regional Water Quality Control Board

The RWQCB enforces laws and regulations governing releases of hazardous substances and petroleum pursuant to pursuant to Division 20, Chapters 6.7, 6.75, and 6.8 of the California Health and Safety Code (Sections 25100, 25200 and 25300 et seq.), and the Porter Cologne Water Quality Control Act (Division 7, Section 13100 et seq. of the California Water Code) and CCR Title 23. In particular, the RWQCB focuses on all petroleum releases and those hazardous substance releases that may impact groundwater or surface water.

### California Office of Emergency Services (OES)

To protect the public health and safety and the environment, the California OES is responsible for establishing and managing statewide standards for business and area plans relating to the handling and release, or threatened release, of hazardous materials. Basic information on hazardous materials handled, used, stored, or disposed of (including location, type, quantity, and the health risks) needs to be available to firefighters, public safety officers, and regulatory agencies. This information must be included in business plans to prevent or mitigate the damage to the health and safety of persons and the environment from the release or threatened release of these materials into the workplace and environment.

These regulations are covered under Chapter 6.95 of the California Health and Safety Code Article 1– Hazardous Materials Release Response and Inventory Program (Sections 25500 to 25520) and Article 2– Hazardous Materials Management (Sections 25531 to 25543.3). CCR Title 19, Public Safety, Division 2, Office of Emergency Services, Chapter 4–Hazardous Material Release Reporting, Inventory, and Response Plans, Article 4 (Minimum Standards for Business Plans) establishes minimum statewide standards for Hazardous Materials Business Plans (HMBPs). These plans shall include the following: (1) a hazardous material inventory in accordance with Sections 2729.2 to 2729.7; (2) emergency response plans and procedures in accordance with Section 2731; and (3) training program information in accordance with Section 2732. HMBPs contain basic information on the location, type, quantity, and health risks of hazardous materials stored, used, or disposed of in the state. Each business shall prepare an HMBP if that business uses, handles, or stores a hazardous material or an extremely hazardous material in quantities greater than or equal to the following: 500 pounds of a solid substance, 55 gallons of a liquid, 200 cubic feet of compressed gas, a hazardous compressed gas in any amount, or hazardous waste in any quantity.

### California Occupational Safety and Health Administration

The California Occupational Safety and Health Administration (Cal/OSHA) is the primary agency responsible for worker safety in the handling and use of chemicals in the workplace. Cal/OSHA standards are generally more stringent than federal regulations. The employer is required to monitor worker exposure to listed hazardous substances and notify workers of exposure (8 CCR Sections 337–340). The regulations specify requirements for employee training, availability of safety equipment, accident-prevention programs, and hazardous substance exposure warnings.

## Asbestos

Asbestos is regulated both as a hazardous air pollutant under the federal Clean Air Act regulations and as a potential worker safety hazard under the authority of Cal/OSHA. These regulations prohibit emissions of asbestos from asbestos-related manufacturing, demolition, or construction activities; require medical examinations and monitoring of employees engaged in activities that could disturb asbestos-containing building materials; specify precautions and safe work practices that must be followed to minimize the potential for release of asbestos fibers; and require notice to federal and local government agencies prior to beginning renovation or demolition that could disturb asbestos-containing building materials. The agencies with primary

responsibility for asbestos safety are the Bay Area Air Quality Management District (BAAQMD), Cal/OSHA and OSHA, and US EPA.

#### California Toxic Rule 40

California Toxic Rule 40 CFR §131.38 establishes numeric criteria for priority toxic pollutants in California's inland surface waters and enclosed bays and estuaries. Compounds include arsenic, chromium (III), chromium (VI), copper, cyanide, lead, zinc, carbon tetrachloride, asbestos, and PCBs.

#### Lead-Based Paint

Federal, state, and local laws and regulations govern handling of building materials that contain lead-based paint. OSHA Lead Construction Standards establish a maximum safe exposure level for the following types of construction work where lead exposure may occur: demolition or salvage of structures where lead or materials containing lead are present; removal or encapsulation of materials containing lead; and new construction, alteration, repair or renovation of structures or materials containing lead. Typically, building materials with lead-based paint attached are not considered hazardous waste (Chapter II, Division 4.5, Title 22, CCR) unless the paint is chemically or physically removed from the building debris.

### 11.4.3 Local

#### City of Scotts Valley General Plan

The following development-related policies from the Scotts Valley General Plan (2023) would avoid or help reduce impacts associated with the project:

SN-4.11 **Mitigation Processes**. Mitigate hazard exposure from new development projects through the environmental review process, design criteria, and standards of development.

SN-4.12 **Site Assessments**. Where necessary and based on the history of land use, require site assessments for hazardous and toxic soil contamination prior to approving development project applications.

## 11.5 Environmental Impacts and Mitigation Measures

### 11.5.1 Significance Criteria

The following significance criteria for hazards & hazardous materials were derived from the Environmental Checklist in CEQA Guidelines Appendix G. These significance criteria have been amended or supplemented, as appropriate, to address lead agency requirements and the full range of potential impacts related to this project.

An impact of a project would be considered significant and would require mitigation if it would meet one of the following criteria.

- Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials.
- Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment.
- Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school.
- 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, create a significant hazard to the public or the environment.
- 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, result in a safety hazard for people residing or working in the project area.
- For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area.
- Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan.
- Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands.

### 11.5.2 Summary of No and/or Beneficial Impacts

The nearest school to the project site is Scotts Valley Middle School, located 0.5 miles to the northwest. Therefore, the project would not affect an existing or proposed school within the designated rate of one-quarter mile. Additionally, the project site is not located within two miles of a public airport or public use airport, or within the vicinity of a private airstrip. As such, the project would not affect an airport land use plan or private airstrip. Likewise, the project site is not located within the area of or within the direct vicinity of an emergency response plan, nor is the project site located in an area of the City designated as a fire hazard area. Therefore, these thresholds are not further evaluated.

### 11.5.3 Impacts of the Proposed Project

#### Impact HAZ-1: Exposure to known or previously unknown hazardous contaminants.

Project development would involve ground disturbance associated with grading and construction. Site preparation would include demolition of existing structures (if still present); excavations of soils, trenching for utility lines; grading and compaction; construction of stormwater facilities, roadways, and other earth-disturbing activities.

Ramboll US Consulting Inc. prepared a Phase I Environmental Site Assessment (ESA), pond sediment sampling, and subsurface investigation of the project site to identify the presence of any hazardous substances, commonly referred to as Recognized Environmental Conditions (RECs) per ASTM Standards, formerly the American Society for Testing and Materials.

In August and November 2021, Ramboll performed soil vapor sampling on the northern portion of the project site to assess potential on-site soil vapor impacts of Tetrachloroethene (PCE) in groundwater from the Scotts Valley Dry Cleaners located ~200 feet north of the project site.

PCE concentrations at on-site soil vapor sampling locations are presented in Figure 11-2: Hazard Sample Location Map. PCE was detected in soil vapor locations SG01 and SG05 through SG07 above laboratory reporting limits. The only soil gas sampling location at the site where PCE was detected above the regulatory screening criterion for unrestricted residential land use was SG05 in an area that was previously a parking lot for the former golf course.

Based on a review of historical records from local agencies and regulatory databases, and interviews conducted with the site owner, Ramboll found no indication that PCE was stored or used at the site. PCE concentrations in soil vapor at the site are likely related to the documented release at the Scotts Valley Dry Cleaners.

The project would construct a commercial parking lot and adjacent commercial building in the vicinity of SG05. The closest proposed residences are located to the south and southeast, where soil vapor locations SG01 through SG04 and SG09 did not detect any concentrations of PCE above the regulatory screening criterion for unrestricted residential land use. Based on the relatively low concentrations of PCE detected in soil vapor at the site to date, Ramboll concluded that no further investigation or remediation or mitigation is warranted at this time.

Benzene was detected above the regulatory screening criterion for unrestricted residential land use in all soil vapor samples except SG04. Detections of benzene in soil vapor are not uncommon in developed urban areas especially in roadways and parking lots since benzene is a component of vehicle fuel. Storm water runoff from roads and parking lots often contains low concentrations of benzene and other petroleum-related constituents. When this runoff infiltrates into the subsurface, benzene and other petroleum-related VOCs are detected in soil vapor. Based on the concentrations of benzene detected in soil vapor at the site to date, Ramboll concluded that no further investigation, remediation or mitigation is warranted at this time.

Chloroform was detected at low concentrations just slightly above the regulatory screening criterion for unrestricted residential land use at SG07. Chloroform is a treatment byproduct in areas where municipal supply water is used. The source of chloroform in soil vapor at the subject site is likely attributable to municipal water use in the general vicinity of the site. The lone chloroform exceedance is only slightly above the regulatory screening criterion for unrestricted residential land use and is not of concern. Based on the concentrations of

chloroform detected in soil vapor at the site to date, Ramboll concluded that no further investigation, remediation or mitigation is warranted at this time.

Based on the findings from Ramboll, concentrations of hazardous materials do not exceed accepted standards associated with future land uses proposed by the project. Therefore, impacts would be less than significant and no further mitigation is required.

### Impact HAZ-2: Exposure to hazardous substances in building structures which could cause a significant health hazard.

Demolition of any remaining structures could expose construction workers to hazardous substances in building structures (e.g., asbestos, lead, polychlorinated biphenyls [PCBs], and mold). Exposure to these substances could cause a significant health hazard. However, the implementation of standard regulatory procedures to remove and/or contain these materials would reduce potential exposure of construction workers to these substances. Standard conditions of approval, such as those described below, would be required by the City for any project-specific development application for the project site involving demolition of existing buildings.

- Remove all potentially friable asbestos prior to building demolition or any renovation and reuse that could disturb asbestos. Removal of such materials would occur in accordance with the National Emissions Standard for Hazardous Air Pollutants (NESHAP) guidelines.
- Prior to demolition of structures constructed prior to 1978, remove all peeling and flaking point and dispose of separately from other building debris, in accordance with current DTSC requirements. Any debris containing lead paint or coasting must be disposed at landfills that have the appropriate acceptance criteria. If such structures are to be renovated and reused, they should be repainted with non-lead paints.
- During demolition of structures constructed prior to 1978, follow the Cal/OSHA Lead in Construction Standard, Title 8 California Code of Regulations (CCR) 1532.1 requirements, which include using training, air monitoring, and dust control.
- Prior to demolition of structures, remove all fluorescent light ballasts and tubes and dispose of in accordance with U.S. EPA requirements.
- Dispose of all hazardous materials on the project site in accordance with local, state, and federal hazardous materials regulations.

Implementation of these standard requirements would reduce potential impacts to a less than significant level, and no mitigation is required.

### Impact HAZ-3: Construction or operational use, transport or creation of hazardous materials.

Approval of the project would allow for the future development of residential and commercial uses. These types of land uses do not generally result in an increased risk from hazardous

materials. The level of risk associated with hazardous materials to be used on the project site would be similar to those commonly used in the area (i.e., cleaning chemicals, fertilizers, household garbage, etc.).

Measures required by the Scotts Valley Fire District, CA Department of Environmental Health, Santa Cruz County Department of Environmental Health, and the Monterey Bay Air Resources Board include standards and regulations regarding the storage, handling, air emissions, and use of these materials. On-site use of hazardous materials would include cleaning and degreasing solvents, fertilizers, pesticides, typical household trash, and other materials used in residential communities. With proper use and disposal, these chemicals are not expected to result in hazardous or unhealthful conditions for on-site residential uses.

Therefore, impacts from the use, transport or creation of hazardous materials, would be less than significant, and no mitigation is required.

### 11.5.4 Cumulative Impact Analysis

The geographical area for the analysis of cumulative impacts involving risks associated with hazards and hazardous materials is the City of Scotts Valley.

#### Impact HAZ-4: Contribute to cumulatively considerable effects on hazards and hazardous materials.

Most hazards and hazardous materials impacts from development are site-specific and, if properly designed, would not result in additive worsening of the environmental or public health and safety. Cumulative development would be subject to site-specific hazards and/or hazardous materials constraints, pursuant to the City of Scotts Valley's building requirements.

Nevertheless, development of past, present and reasonably foreseeable future developments could cumulatively increase the potential for exposure of people throughout the city to soil contamination from ground disturbance during construction; hazards associated with the use, transport, or disposal of hazardous materials for any industrial projects; and wildland fire hazards; and compliance with City Emergency Response and/or Evacuation Plans because of the addition of residents and employees in areas without adequate emergency access. Therefore, an overall increase in the potential for exposure to hazards, hazardous materials, and wildland fires could occur as development occurs. However, the contribution to this cumulative increase from the project would be less than considerable based on the analysis above and site-specific nature of potential impacts.

### 11.5.5 Level of Significance after Mitigation

Table 11-1: Summary of Impacts and Mitigation Measures – Hazards & Hazardous Materials summarizes the hazards and hazardous materials environmental impacts, significance determinations, and mitigation measures for residential development pursuant to the project.

**Table 11-1: Summary of Impacts and Mitigation Measures – Hazards & Hazardous Materials**

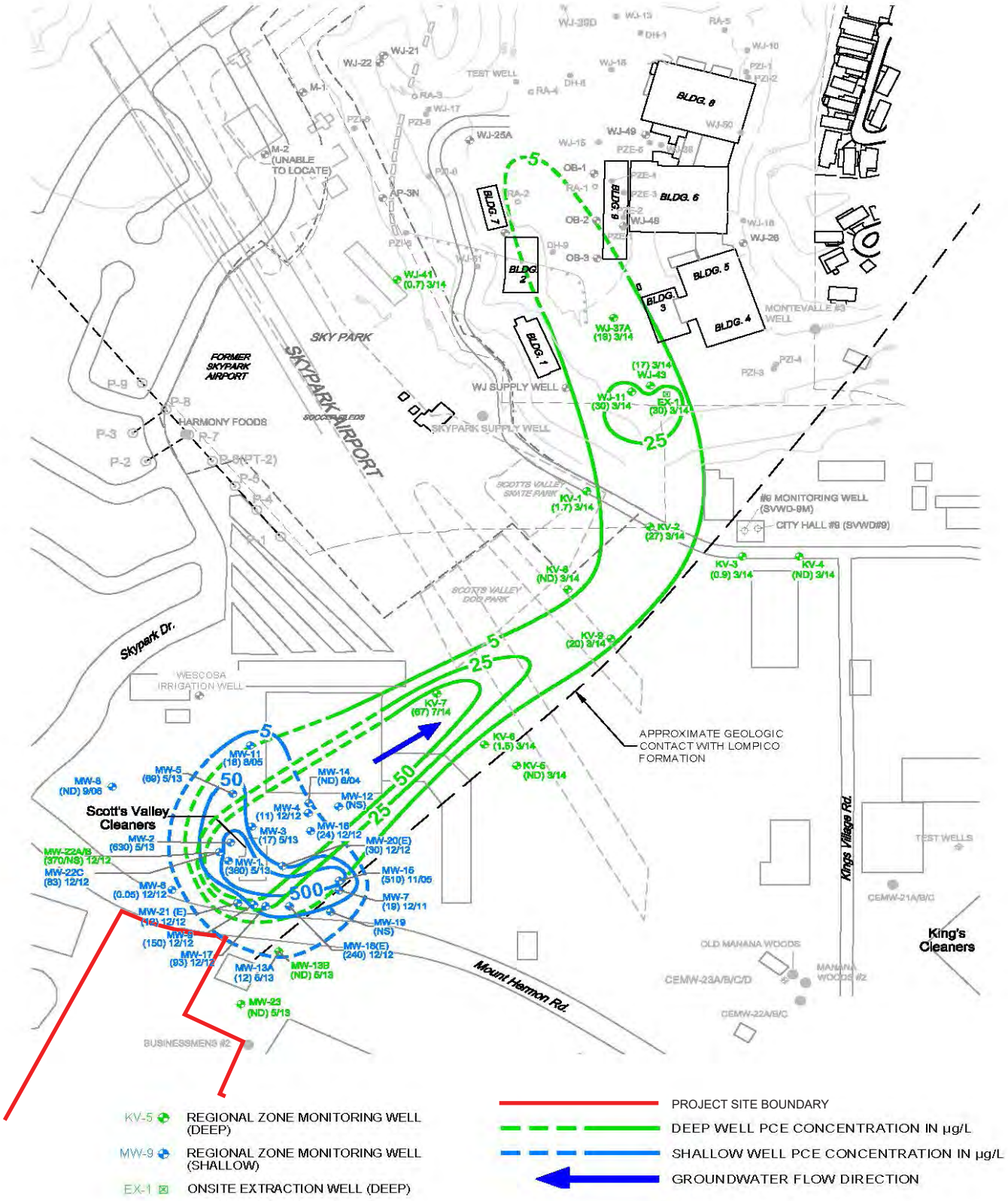
| Impact | Impact Significance | Mitigation |
|---|---|---|
| Impact HAZ-1: Exposure to known and previously unknown hazardous contaminants. | Less than Significant | None required |
| Impact HAZ-2: Exposure to hazardous substances in building structures which could cause a significant health hazard. | Less than Significant | None required |
| Impact HAZ-3: Construction or operational use, transport or creation of hazardous materials. | Less than Significant | None required |
| Impact HAZ-4: Contribute to cumulatively considerable effects on hazards and hazardous materials. | Less than Significant | None required |

## 11.6 References

Ramboll US Consulting, *Phase 1 Environmental Site Assessment, Pond Sediment Sampling, and Subsurface Investigation*, May 2022.

Terraphase Engineering, Soil Gas Assessment Report, Scotts Valley Dry Cleaners. August 21. 2018.

Terraphase Engineering, Semi-Annual Monitoring Report, January 1 to June 30, 2021, Scotts Valley Dry Cleaners, August 30, 2021.




Source: Arcadis, 2017

**Figure 11-1 Scotts Valley Dry Cleaners PCE Isocontour Map**

Not to scale

Valley Gardens
*EIR*

Kimley»Horn




Source: Ramboll, 2024

**Figure 11-2 Hazard Sample Location Map**

Valley Gardens
*EIR*

Not to scale

Kimley»Horn

# 12 Hydrology & Water Quality

## 12.1 Introduction

This section describes effects on water resources (hydrology and water quality) from development pursuant to the project. Information used to prepare this section came from the following resources:

- Aerial photography
- City of Scotts Valley, *Scotts Valley General Plan*, November 2023.
- Ruggeri-Jensen-Azar & Associates (RJA) 2022. *Stormwater Control Plan for Valley Gardens*, prepared for Robson Homes.
- Scotts Valley Water District, *Groundwater Management Plan Annual Report - Water Year 2020,* Montgomery & Associates, April 2021.
- Scotts Valley Water District and San Lorenzo Valley Water District, *2020 Urban Water Management Plan*, Montgomery & Associates and WSC), June 2021.

## 12.2 Scoping Issues Addressed

During the scoping period for the project, no written comments by agencies and the public regarding hydrology and water quality were received.

## 12.3 Environmental Setting

### 12.3.1 Regional Watershed

The project site is located within both the Bean Creek and Carbonera Creek watersheds (see Figure 12-1: Watersheds). Both creeks are tributaries of the San Lorenzo River system, which drains south from the Santa Cruz Mountains into Monterey Bay at the City of Santa Cruz. The San Lorenzo River watershed drains approximately 137 square miles, and its principal tributaries include Boulder Creek, Kings Creek, Bear Creek, Newell Creek, Zayante Creek, Bean Creek, and Branciforte Creek (City of Scotts Valley, 2023).

Bean Creek drains approximately 8.8 square miles just beyond the western boundary of the SVWD (City of Scotts Valley, 2023). The Carbonera Creek watershed drains approximately 3.6 square miles at the southern boundary of the Scotts Valley Water District (SVWD). Unlike Bean Creek, Carbonera Creek typically becomes dry or near dry during the summer months. Carbonera Creek flows generally southwest from its headwaters in the Santa Cruz Mountains, and discharges to Branciforte Creek in the City of Santa Cruz. Branciforte Creek discharges into the San Lorenzo River near Soquel Avenue, approximately one mile downstream of the Carbonera Creek confluence.

### 12.3.2 Water Supply

For potable water supply, the project site is located within the San Lorenzo Valley Water District (SLVWD or District), which serves a combined area of approximately 98 square miles, including a small southern area within the Scotts Valley city limits, which includes the project site.

SLVWD owns, operates, and maintains two separately managed water systems, which are the North/South System (or San Lorenzo Valley System) and the Felton System. SLVWD's 2015 Urban Water Management Plan (UWMP) characterized different North, South, and Felton systems and service areas. However, since the 2015 UWMP, SLVWD acquired and connected the Lompico system, connected the North and South systems, and now serves these systems as one San Lorenzo Valley System. The North/South service area includes the unincorporated communities of Boulder Creek, Brookdale, Ben Lomond, Manana Woods, Lompico and portions of the City of Scotts Valley and adjacent unincorporated neighborhoods. The Felton Service Area was acquired by SLVWD from California American Water (CAW or Cal-Am) in September 2008 and includes the town of Felton and adjacent unincorporated areas. It was owned and operated by Citizen Utilities Company of California prior to 2002.

A combination of surface water and groundwater sources are used by SLVWD to meet customer potable water needs. Non potable water in the form of recycled water is distributed to the project site on Mt. Hermon Road by the Scotts Valley Water District (SVWD).

SLVWD practices conjunctive use to provide a reliable water supply to their customers. Conjunctive use refers to the optimized, sustainable use of multiple sources of water throughout repeated climatic cycles. SLVWD relies on groundwater and surface water diversions to meet all customer needs. Production from stream diversions occurs whenever possible which allows groundwater to remain stored for use during dry periods. Table 12-1: Summary of SLVWD Current and Projected Potable Water Supplies (AFY) provides a summary of the existing and planned SLVWD water supply volumes from 2020 to 2045 in five-year increments.

**Table 12-1: Summary of SLVWD Current and Projected Potable Water Supplies (AFY)**

| Water Supply | Additional Detail | 2020 | 2025 | 2030 | 2035 | 2040 | 2045 |
|---|---|---|---|---|---|---|---|
| San Lorenzo Valley System [1] | | | | | | | |
| Surface Water | Stream Diversions | 417 | 972 | 987 | 1,001 | 1,016 | 1,031 |
| Groundwater | Santa Margarita Groundwater Basin | 1,258 | 920 | 920 | 920 | 920 | 920 |
| Felton System | | | | | | | |
| Surface Water | Stream Diversions | 366 | 310 | 312 | 315 | 317 | 319 |
| Groundwater [2] | Bennett Spring | 8 | 8 | 8 | 8 | 8 | 8 |
| SLVWD Service Area | | | | | | | |
| **Total Potable Water Supply** | | **2,049** | **2,210** | **2,227** | **2,243** | **2,260** | **2,277** |

Notes:
(1) Available supplies assume that SLVWD will target using the Baseline Pumping volume developed under groundwater model simulated baseline conditions for the GSP. The remainder of supply is assumed to come from stream diversions to meet demand. These values are estimates for potential supplies available and are subject to consideration of conditions and constraints discussed in detail in the WSCP.
(2) 2025-2045 Bennett Spring supply is based on the 5-year historical average of the Bennett Spring supply between 2016-2020.

Source: 2020 UWMP for SLVWD and SVWD, Montgomery & Associates, 2021.

### Santa Margarita Groundwater Basin

A significant portion SLVWD water supply is derived from groundwater from the Santa Margarita Groundwater Basin, the boundary of which is defined by the California Department of Water Resources (DWR). The Santa Margarita Groundwater Basin (SMGB or the Basin) covers more than 30 square miles in the Santa Cruz Mountains. The Basin forms a roughly triangular area that extends from Scotts Valley in the east, to Boulder Creek in the northwest, to Felton in the southwest (see Figure 12-2: Groundwater Basins). The SVWD Groundwater Management Area includes the portion of the SMGB served primarily by the SVWD as well as the SLVWD.

The SMGB consists of a sequence of sandstone, siltstone, and shale that are underlain by granite that lie within a geologic trough called the Scotts Valley Syncline. This sequence of sedimentary rocks is divided into several geologic formations. These units are defined on the basis of the type of rock and their relative geologic age based on studies by the United States Geological Survey. In the SMGB, the sandstone units serve as the primary aquifers that provide the majority of groundwater production for the local water supply. The main aquifers in the Basin include:

- Santa Margarita Sandstone (Santa Margarita)
- Monterey Formation (Monterey)
- Lompico Sandstone (Lompico)
- Butano Formation (Butano)

The Santa Margarita, Lompico, and Butano are the major water-bearing units of the four aquifers. The Basin includes portions of DWR Basins 3-21, 3-027, and 3-50 (Montgomery & Associates, 2021).

Over the past 25 years, groundwater levels in many parts of the SMGB, especially in the Lompico Aquifer, have declined more than 200 feet. The greatest declines occurred between the late 1960s and mid-1990s. A variety of factors probably contributed to these declines, including:

- Increased groundwater pumping due to growth in area.
- Reduced recharge from the surface to groundwater due to an increase in paved areas and other land use changes associated with urbanization.
- Reduced groundwater recharge due to the drought.

The Groundwater Reporting Area (GWRA) is the area of reported annual data for the SVWD Groundwater Management Area and the Pasatiempo Groundwater Subarea, located south of the SVWD GWRA. The Pasatiempo Groundwater Subarea includes the portion of the SMGB served by the San Lorenzo Valley Water District and the Mt. Hermon Association.

### SLVWD Groundwater Use

SLVWD extraction wells operate regularly throughout the year, but especially in the dry season, beginning when stream diversions fall below the amount required to meet San Lorenzo Valley System water demand. SLVWD has four active wells in the northern portion of the San Lorenzo Valley System, and three active wells in the southern portion. In addition, the Felton System includes the Bennett Spring diversion which is a designated groundwater source with regard to required treatment. The Bennett Spring diversion serves as the sole water supply for one of the systems six pressure zones. On average eight AFY of the spring diversion is delivered as groundwater to SLVWD customers.

In 2020, SLVWD lost a majority of its northern intake and raw waterline infrastructure to the CZU Complex Fire. Reconstruction of the approximately seven miles of raw water line and four diversion intake structures are planned for reconstruction over the next several years. In the meantime, SLVWD is managing its remaining surface water diversions and groundwater well sites conjunctively. This involves moving water from SLVWD online systems to the damaged offline parts of the northern system. During the period of construction, SLVWD believes it will use 48% of groundwater well supply compared to its annual average of 46% groundwater & 54% surface water supply (Montgomery & Associates, 2021).

### Regional Groundwater Production

In addition to SLVWD, groundwater production in the GWRA includes pumping from wells operated by other water purveyors and private pumpers, as well as for environmental remediation. The users include:

## Scotts Valley Water District

Groundwater production by SVWD in water year (WY) 2020 was 1,215 acre-feet, which is similar to the previous three years pumping. Since WY2003, groundwater production by SVWD declined by over 900 acre-feet and declines in production have occurred in nine of the past 14 years (SVWD, 2021). The sharp decline is likely in response to successful water use efficiency efforts in response to the drought at that time.

SVWD currently operates five production wells: Sucinto, Orchard, #10A, #11A, and #11B. Groundwater pumping by well varies seasonally and annually to meet changing local water demand and allow for well maintenance activities.

As shown in Table 12-2: SVWD Groundwater Production by Aquifer and Recycled Water Usage (afy), in WY2020, 100% of SVWD groundwater pumping was derived from the Lompico and Butano aquifers. Groundwater pumped from the Lompico and Butano aquifers accounts for 73% and 27% of WY2020 SVWD pumping, respectively. Annual groundwater pumping from the Lompico aquifer has declined noticeably since WY2014. WY2020 pumping from the Lompico aquifer is 52% of the pumping high of 1,483 acre-feet in WY2003. Similarly, WY2020 pumping in the Butano aquifer is 40% of the pumping high of 735 acre-feet in WY1997. The amount of Butano aquifer pumping decreased between WY2019 and WY2020 largely due to reduced pumping at the Orchard Well. The aquifers are currently being pumped well below their historical maximum annual production.

**Table 12-2: SVWD Groundwater Production by Aquifer and Recycled Water Usage (afy)**

| Aquifer | Historical Maximum | WY 2011 | WY 2012 | WY 2013 | WY 2014 | WY 2015 | WY 2016 | WY 2017 | WY 2018 | WY 2019 | WY 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Monterey | 426 (1984) | 3 | 4 | 35 | 23 | 0 | 2 | 6 | 4 | 2 | 0 |
| Lompico | 1,483 (2003) | 969 | 964 | 1,020 | 989 | 896 | 814 | 923 | 884 | 703 | 778 |
| Butano | 735 (1997) | 320 | 383 | 345 | 365 | 237 | 323 | 312 | 322 | 510 | 437 |
| Ground Water Total | 2,100 (2003) | 1,292 | 1,351 | 1,400 | 1,376 | 1,133 | 1,139 | 1,242 | 1,211 | 1,215 | 1,215 |
| Recycled Water | 200 (2013) | 163 | 184 | 200 | 199 | 184 | 195 | 162 | 196 | 174 | 178 |
| **Total** | **2,096 (2003)** | **1,455** | **1,535** | **1,600** | **1,575** | **1,317** | **1,334** | **1,404** | **1,407** | **1,389** | **1,393** |

Notes:
GW – Water Year Groundwater Pumping Total
RW – Water Year Recycled Water Usage Total

Source: 2020 UWMP for SLVWD and SVWD, Montgomery & Associates, 2021.

Groundwater pumping is highest in the dry season months of May through October and lowest in the wetter months of December through March due primarily to seasonal changes in outdoor use. The timing of increased outdoor water use typically shifts with the amount of springtime precipitation. If March through May rainfall is above average, outdoor water usage tends to be below-average, whereas below-average spring rain tends to increase outdoor water use.

### Mt. Hermon Association (MHA)

Pumping by MHA was 137 acre-feet in WY2019 and 177 acre-feet in WY2020. WY2015 had the lowest pumping on record at 114 acre-feet. The high was 232 acre-feet in WY2008. Groundwater is pumped from two wells screened in the Lompico aquifer.

### Industrial Wells

Historically, most industrial groundwater pumping was carried out by the Hanson Quarry before the quarry was closed in 2004. Currently, no large industrial wells are identified in the GWRA. The maximum industrial pumping was 485 acre-feet in WY1987. Groundwater pumping was primarily from the Santa Margarita and Lompico aquifers.

### Environmental Remediation

No groundwater for environmental remediation has been pumped since WY2016. The Watkins-Johnson and Scotts Valley Dry Cleaners groundwater remediation systems have been shut down since 2016 and 2015, respectively. Historical pumping for remedial purposes was primarily from the Santa Margarita aquifer.

### Private Wells

Pumping from private wells for domestic use, landscape ponds, and irrigation is not metered, but is estimated at approximately 178 acre-feet in the GWRA for WY2020. Note that the Valley Gardens golf course was closed at the end of 2018 and its landscape ponds and turf have not been maintained. The maximum historical private pumping estimate was 381 acre-feet in WY1987 (Todd, 1998).

Table 12-3: Groundwater Production in the Groundwater Reporting Area (afy), summarizes total groundwater pumping in the GWRA by aquifer. In the GWRA for WY2020, about 75% of the total pumping is from the Lompico aquifer, 22% is from the Butano aquifer, and the remaining 3% is from the Santa Margarita and Monterey aquifers. Larger municipal and private wells typically pump from the Lompico and Butano aquifers which can sustain higher pumping rates. Santa Margarita and Monterey aquifer pumping is generally from smaller wells or for environmental remediation (Montgomery & Associates, 2021).

**Table 12-3: Groundwater Production in the Groundwater Reporting Area (afy)**

| Aquifer | Historical Maximum | WY 2011 | WY 2012 | WY 2013 | WY 2014 | WY 2015 | WY 2016 | WY 2017 | WY 2018 | WY 2019 | WY 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Santa Margarita [1] | 894 (1987) | 63 | 56 | 74 | 72 | 74 | 57 | 14 | 14 | 14 | 14 |
| Monterey | 587 (1984) | 49 | 50 | 81 | 69 | 37 | 39 | 43 | 41 | 39 | 37 |
| Lompico | 2,705 (2003) | 1,743 | 1,739 | 1,815 | 1,752 | 1,449 | 1,322 | 1,421 | 1,462 | 1,252 | 1,445 |
| Butano | 738 (1997) | 323 | 386 | 348 | 368 | 237 | 323 | 312 | 322 | 510 | 437 |
| **Total** | **3,679 (1997)** | **2,178** | **2,231** | **2,319** | **2,261** | **1,797** | **1,740** | **1,790** | **1,838** | **1,814** | **1,932** |

Notes:
1. The Santa Margarita aquifer is not listed in Table 11-1 as SVWD does not pump groundwater from this shallow aquifer.
Source: 2020 UWMP for SLVWD and SVWD, Montgomery & Associates, 2021.

### 12.3.3 Flooding

The project site is not located within a Federal Emergency Management Agency (FEMA) mapped Flood Insurance Rate Map (FIRM) because no major waterways are located on the project site.

## 12.4 Applicable Regulations, Plans, and Standards

### 12.4.1 Federal

#### Clean Water Act

The Clean Water Act (CWA) (33 U.S.C. Section 1251 et seq.), formerly the Federal Water Pollution Control Act of 1972, was enacted with the intent of restoring and maintaining the chemical, physical, and biological integrity of the waters of the United States. The CWA establishes the basic structure for regulating discharges of pollutants into the waters of the United States (U.S.) and has given the U.S. Environmental Protection Agency (U.S. EPA) the authority to implement pollution control programs. The CWA requires states to set standards to protect, maintain, and restore water quality through the regulation of point source and certain non-point source discharges to surface water. Those discharges are regulated by the National Pollutant Discharge Elimination System (NPDES) permit process (CWA Section 402). In California, NPDES permitting authority is delegated to, and administered by, the nine Regional Water Quality Control Boards (RWQCBs). The project is within the jurisdiction of the Central Coast RWQCB.

Section 402 of the Clean Water Act authorizes the California State Water Resources Control Board (SWRCB) to issue NPDES General Construction Storm Water Permit (Water Quality Order 99-08-DWQ), referred to as the "General Construction Permit." Construction activities can comply with and be covered under the General Construction Permit if they:

- Develop and implement a Storm Water Pollution Prevention Plan (SWPPP) which specifies Best Management Practices (BMPs) that will prevent all construction pollutants from contacting storm water and with the intent of keeping all products of erosion from moving off-site into receiving waters.
- Eliminate or reduce non-storm water discharges to storm sewer systems and other waters of the nation.
- Perform inspections of all BMPs.

The SWPPP must contain a visual monitoring program; a chemical monitoring program for "non-visible" pollutants to be implemented if there is a failure of BMPs; and a sediment monitoring plan if the project site discharges directly to a water body listed on the 303(d) list for sediment. Increased compliance tasks under the adopted 2009 Construction General Permit include project risk evaluation, effluent monitoring, receiving water monitoring, electronic data submission of the SWPPP and all other permit registration documents, and a Rain Event Action Plan (REAP), which must be designed to protect all exposed portions of a project site within 48 hours prior to any likely precipitation event.

**Section 401** of the CWA requires that any activity—including river or stream crossing during road, pipeline, or transmission line construction—that may result in discharges into a State waterbody be certified by the RWQCB. This certification ensures that the proposed activity does not violate State and/or federal water quality standards. The limits of non-tidal waters extend to the Ordinary High-Water Mark (OHWM), which is defined as the line on the shore established by the fluctuation of water and indicated by physical characteristics, such as natural line impressed on the bank, changes in the character of the soil, and presence of debris. The U.S. Army Corps of Engineers (USACE) may issue either individual, site-specific permits or general, nationwide permits for discharge into US waters.

**Section 404** of the CWA requires a permit for construction activities involving placement of any kind of fill material into waters of the U.S. or wetlands. A Water Quality Certification pursuant to Section 401 of the CWA is required for Section 404 permit actions. If applicable, construction would also require a request for Water Quality Certification (or waiver thereof) from the RWQCB.

When an application for a Section 404 permit is made, the applicant must show it has:

- Taken steps to avoid impacts to wetlands or waters of the U.S. where practicable;
- Minimized unavoidable impacts on waters of the U.S. and wetlands; and

- Provided mitigation for unavoidable impacts.

**Section 303(d)** of the CWA (CWA, 33 USC 1250, et seq., at 1313(d)) requires states to identify "impaired" water bodies as those which do not meet water quality standards. States are required to compile this information in a list and submit the list to U.S. EPA for review and approval. An affected waterbody, and associated pollutant or stressor, is then prioritized in a list of impaired water bodies known as the 303(d) List. The CWA further requires the development of a Total Maximum Daily Load (TMDL) for each listing.

**National Flood Insurance Program (NFIP)**

The NFIP, implemented by the Congress of the United States in 1968, enables participating communities to purchase flood insurance. Flood insurance rates are set according to flood-prone status of property as indicated by FIRMs developed by the FEMA. FIRMs identify the estimated limits of the 100-year floodplain for mapped watercourses, among other flood hazards. As a condition of participation in the NFIP, communities must adopt regulations for floodplain development intended to reduce flood damage for new development through such measures as flood proofing, elevation on fill, or floodplain avoidance.

### 12.4.2 State

#### Senate Bill (SB) 610

SB 610 was passed on January 1, 2002, amending California state law to require detailed analysis of water supply availability for large development projects. An SB 610 Water Supply Assessment (WSA) must be prepared if the following three conditions are met: 1) the project is subject to CEQA under Water Code Section 10910; 2) the project meets criteria to be defined as a "Project" under Water Code Section 10912; and 3) the applicable water agency's current Urban Water Management Plan (UWMP) does not account for the water supply demand associated with the project. A project would meet the definition of "Project" per Water Code Section 10912 if it is:

- A proposed residential development of more than 500 dwelling units;
- A proposed shopping center or business establishment employing more than 1,000 persons or having more than 500,000 square feet of floor space;
- A proposed commercial office building employing more than 1,000 persons or having more than 250,000 square feet of floor space;
- A proposed hotel or motel, or both, having more than 500 rooms;
- A proposed industrial, manufacturing, or processing plant, or industrial park planned to house more than 1,000 persons, occupying more than 40 acres of land, or having more than 650,000 square feet of floor area;
- A mixed-use project that includes one or more of the projects specified in this subdivision; or

- A project that would demand an amount of water equivalent to, or greater than, the amount of water required by a 500-dwelling unit project (DWR, 2003).

### Porter-Cologne Water Quality Control Act

SWRCB regulates water quality through the Porter-Cologne Water Quality Act of 1969, which contains a complete framework for the regulation of waste discharges to both surface waters and groundwater of the state. On the regional level, the project falls under the jurisdiction of the Central Coast RWQCB, Region 3, which is responsible for the implementation of state and federal water quality protection statutes, regulations and guidelines.

### California Department of Fish & Wildlife Code

Section 1602 of the California Department of Fish & Wildlife (CDFW) Code protects the natural flow, bed, channel, and bank of any river, stream, or lake designated by the CDFW in which there is, at any time, any existing fish or wildlife resources, or benefit for the resources. Section 1602 applies to all perennial, intermittent, and ephemeral rivers, streams, and lakes in the state, and requires any person, state or local governmental agency, or public utility to notify the CDFW before beginning any activity that will:

- Substantially divert or obstruct the natural flow of any river, stream or lake;
- Substantially change or use any material from the bed, channel, or bank of, any river, stream, or lake; or
- Deposit or dispose of debris, waste, or other material containing crumbled, flaked, or ground pavement where it may pass into any river, stream, or lake.

A Streambed Alteration Agreement is required prior to any construction if CDFW determines that a project could substantially adversely affect an existing fish and wildlife resource. The Agreement includes measures to protect fish and wildlife resources while conducting the project. CDFW must comply with CEQA before it may issue a final Agreement; therefore, CDFW must wait for the lead agency to fully comply with CEQA before it finalizes the Agreement.

### California Water Code §13050-§13260

California Water Code §13050. California Water Code §13050(e) defines “waters of the state” as “any surface water or groundwater, including saline waters, within the boundaries of the state.” California Water Code §13260 requires that any person discharging waste, or proposing to discharge waste, within any region that could affect the quality of the waters of the State, other than into a community sewer system, must submit a report of waste discharge to the applicable RWQCB.

### Central Coast RWQCB Post-Construction Stormwater Management Requirements

In July 2013, the Central Coast Regional Water Quality Control Board (RWQCB) adopted Order R3-2013-0032, which requires new and more stringent Post-Construction Requirements (PCRs) for proposed development projects. The PCRs mandate that development projects use Low

Impact Development (LID) features and facilities to detain, retain, and treat site runoff. LID incorporates and conserves on-site natural features, together with constructed hydrologic controls to more closely mimic pre-development hydrology and watershed processes. Projects that receive their first discretionary approval after March 6, 2014, are subject to the PCRs if they create or replace 2,500 sf or more of impervious area.

The PCR tiers range from Tier 1 to Tier 4, with requirements strengthened for each additional tier. Tier 4 projects have the most stringent requirements. For these projects which create or replace 22,500 sf or more of impervious surface, post-development peak flows discharged from the project site must not exceed pre-project peak flows for the 2-year through 10-year storm events. This requirement is in addition to other requirements for Tier 1-3 projects.

### 12.4.3 Local

#### City of Scotts Valley General Plan

The following development-related policies from the Scotts Valley General Plan (2023) would avoid or help reduce impacts associated with the project:

OSC-3.14 **Drainage Plans**. Require new development to protect water infiltration, purification, and retentive functions of natural systems. Drainage plans shall be designed to complement and utilize existing drainage patterns and systems, providing drainage for the developed area while minimizing the potential for erosion.

OSC-3.15 **Impervious Surfaces**. New development shall minimize the amount of impervious surfaces and shall be prohibited from having post-project peak stormwater runoff discharge rates exceeding the estimated pre-project rate.

OSC-3.16 **Prevent Contaminant Settling**. Utilize natural features supplemented by engineering designs to prevent contaminants from settling over recharge areas while allowing percolation of non-contaminated water into the aquifer.

OSC-3.17 **Project Groundwater and Water Quality Impacts**. Use the environmental review process to determine potential groundwater and water quality impacts of new development.

OSC-3.18 **Water Quality Best Management Practices**. Require new development to implement best management practices that reduce stormwater runoff and water quality impacts associated with the construction and operation of the project.

## 12.5 Environmental Impacts and Mitigation Measures

### 12.5.1 Significance Criteria

The following significance criteria for hydrology and water quality were derived from the Environmental Checklist in CEQA Guidelines Appendix G. These significance criteria have been amended or supplemented, as appropriate, to address lead agency requirements and the full range of potential impacts related to this project.

An impact of a project would be considered significant and would require mitigation if it would meet one of the following criteria.

- Violate any water quality standards or waste discharge requirements, create any substantial new sources of polluted runoff, or otherwise degrade surface water or groundwater quality.
- Substantially deplete groundwater supplies or interfere substantially with groundwater recharge, such that the project may impede sustainable groundwater management of the basin.
- Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would
    - Result in substantial erosion or siltation on- or offsite.
    - Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite.
    - 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.
    - Impede or redirect flood flows
- In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation.
- Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan.

### 12.5.2 Summary of No and/or Beneficial Impacts

The project site is not located within a 100-year flood hazard area. Additionally, based on the project site's location, it would not be subject to inundation by seiche, tsunami, or mudflow. Therefore, these thresholds are not evaluated further in this section.

### 12.5.3 Impacts of the Project

Impact HYD-1: Contribute to the depletion of local groundwater supplies or interfere with groundwater recharge.

The project could substantially deplete local groundwater supplies or interfere with groundwater recharge if it:

- Affected a groundwater basin in overdraft conditions;
- Caused the affected groundwater basin to be in overdraft;
- Caused a substantial local groundwater level drawdown at wells in the area; or
- Redirected natural recharge to the basin, such as through the introduction of impervious areas that prevent infiltration.

#### Groundwater Demand

As described in Impact PSU-4, below, the project would use approximately 42.21 acre-feet per year of potable water. As shown in Table 12-1: Summary of SLVWD Current and Projected Potable Water Supplies (AFY), this demand represents less than one percent of current water demand of 2,049 (2020) and is accounted for as part of future growth (2,277 AFY in 2045), as described in the *2020 UWMP for the SLVWD and SVWD* (Montgomery & Associates, 2021). Therefore, the project would not exceed the capacity of the SLVWD system described in the Environmental Setting, above. It would not cause the groundwater basin to be in overdraft and it would not result in substantial local groundwater level drawdown at wells in the area.

Based upon preliminary review of the project, the San Lorenzo Valley Water District issued a "Will Serve" letter to the project applicant dated June 6, 2024 (SLVWD, 2024) for potable water supply. This water would be delivered to the project site an existing service line on Mt. Hermon Road.

SVWD has a recycled water line in Mt. Hermon Road, adjacent to the project site. Per SVMC Chapter 17.47 Recycled Water Regulations, project construction would be required to use recycled water for common area irrigation, thereby reducing potable water demand for the project site.

#### Groundwater Recharge

In July 2013, the Central Coast Water Quality Control Board adopted Order R3-2013-0032, which requires new and more stringent Post-Construction Requirements (PCRs) for proposed development projects. The PCRs mandate that development projects use Low Impact Development (LID) features and facilities to detain, retain, and treat site runoff. LID incorporates and conserves on-site natural features, together with constructed hydrologic controls to more closely mimic pre-development hydrology and watershed processes.

The project would create approximately 589,158 sf of new impervious surface area and would therefore, be subject to State Tier 4 PCRs, as previously identified, requiring the implementation of LID measures in conjunction with construction and operational phases of future development. The project would incorporate LID design elements which would allow for infiltration and replenishment of the groundwater basin. Implementation of these features would reduce impact to less than significant and no mitigation is required.

### Impact HYD-2: Increase stormwater runoff due to the increase in impervious surfaces.

The rate and amount of surface runoff is determined by multiple factors, including the amount and intensity of precipitation; amount of water that enters a watershed; and the amount of precipitation and water that infiltrates to the groundwater. Infiltration is determined by several factors, including soil type, antecedent soil moisture, rainfall intensity, the amount of impervious surfaces within a watershed, and topography. The rate of surface runoff is largely determined by topography and the intensity of rainfall over a given period of time.

Project development would include earth-disturbing activities, which may affect site-specific infiltration and permeability during construction (temporary) and operation (permanent). The project would result in 589,158 sf (approximately 43 percent of the project site) of new impervious surfaces, which would increase stormwater flows (Project Plans dated May 6, 2024, Sheet C7.0). Since the project exceeds the 22,500 threshold of replaced and new impervious surface, it is considered to fulfill Tier 4 of post-construction Best Management Practices (BMP) requirements.

Project plans notes that measures for stormwater control and/or mitigation include a natural low point adjacent to the municipal storm system and sufficient difference in grade across the site to assure the consistent conveyance of runoff utilizing only gravity-based systems. Constraints include the very low infiltration rate of soils and the steep slopes found on the northwestern portion of the site. Additionally, the project will result in an increase of impervious surfaces, limiting areas available for surface treatment and/or conveyance of runoff.

As shown in Figure 3-12: Proposed Drainage Management Areas, there are three stormwater drainage management areas (DMAs) designed to collect, filter and control stormwater to downstream Stormwater Control Measure (SCM) facilities. The majority of the project conveys runoff through the storm drain system and into the tributary basins and underground retention facility. The commercial parking lot would sheet flow into a SCM. Each SCM would provide additional storage volume for larger storm events.

The drainage management areas and associated SCM facilities have been designed to mitigate treatment and runoff requirements. Facilities were sized using the Central Coast Region Stormwater Control Measure Sizing Calculator.

The project site is located in the Central Coast Regional Water Quality Control Board jurisdiction. Stormwater runoff management is required to adhere to the criteria identified in

Resolution No R3-2012-0032 "Post-Construction Stormwater Management Requirements for Development Projects in the Central Coast Region", dated July 12, 2013.

The stormwater facilities were design per the guidelines in the Scotts Valley "Stormwater Technical Guide" dated February 2015, which stipulates that peak flows shall not exceed pro-project peak flows for the 10-year or 24-hour storm events.

SCMs for the project site consist of two (2) bioretention basin facilities and one (1) underground retention facility. A bioretention basin is a depressed area with porous engineered soil and landscaping that captures, treats, and infiltrated runoff. Where additional volume capacity is needed bioretention facilities will allow for ponding to increase volume capacity.

An underground storage facility with an open bottom will be sized to retain and infiltrate a pre-defined volume of runoff within a reasonable drawdown time (e.g., 72 hours). The facility may be designed to be on-line or off-line with a diversion structure and/or overflow release mechanism. This type of facility is considered a direct infiltration facility and is generally only applicable when seasonal high groundwater is greater than 10-feet below subgrade elevation and infiltration rates are higher than 0.5 in/hr. Drawdown times are recommended to be 72-hours or less.

The bioretention basin consists of an upper basin area with a landscaped ponding area. An overflow structure would capture any excess ponding and route into the project site's storm drainage system. Engineered soil media would be located below the ponding area. Below the soil media there would be a layer of gravel (class 2 permeable material). Overflow structures will be provided at each basin and flows routed to the storm drain system and then to the City's storm drain system.

Construction of the storm drain facilities will be completed by the project applicant. The responsibility for operation and maintenance of stormwater treatment and flow control facilities will be transferred to a Homeowners Association (HOA) once it has been created.

Based on preliminary design review by City Public Works staff, these SCMs have been designed to maintain or reduce stormwater runoff consistent with City and state regulations including the Stormwater Technical Guide – Compliance with Stormwater Post Construction Requirements and RWQCB Tier 4 PCR requirements. Therefore, project impacts would be less than significant and no mitigation is required.

### Impact HYD-3: Substantially alter drainage patterns on- or off-site that would result in the storm water transport of contaminants, pollutants, bacteria, salts, and sediment into downstream facilities.

Because the project would disturb more than one acre of land, the project applicant would be required to submit a Notice of Intent to the State Board and apply for coverage under the State NPDES General Permit for Construction Activities, prepare a Stormwater Pollution Prevention

Plan (SWPPP), and submit it for review and approval prior to commencing construction. In addition, the project could create more (or less) impervious surface area and be subject to state Tier 4 PCRs, requiring the implementation of LID measures.

The SWPPP details the project site-specific BMPs to control erosion and sedimentation and maintain water quality during construction. Potential erosion control plans include silt fences, fiber rolls, drop inlet protection and curb inlet sediment barriers, and rocked construction site entrances. The SWPPP would also contain a summary of the structural and non-structural BMPs to be implemented during the post-construction period, pursuant to the nonpoint source practices and procedures as required by the City Public Works Department. Once grading begins, the SWPPP must be kept on-site and updated as needed while construction progresses.

Given that existing regulations require future project-specific applicants to prepare and submit a project SWPPP for review and approval prior to construction activities occurring on the project site, as well as adhere to Tier 4 PCR requirements for operation, the impacts from stormwater runoff would be less than significant and no mitigation is required.

Impact HYD-4: Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan.

Based upon the *2020 Urban Water Management Plan for SLVWD and SVWD* (Montgomery & Associated, 2021), SLVWD has adequate supply to meet water demand during normal, dry, and multiple-dry years through 2040. [7] The project-generated increase in potable water demand of 42.21 AFY (see Impact PSU-4, below) would not exceed the supply capacity nor the capacity of the water delivery system. In addition, SLVWD issued a "Will Serve" letter to the project applicant in June of 2024, confirming that the District has adequate water supplies to serve the project site. Thus, impacts would be less than significant and no mitigation is required.

### 12.5.4 Cumulative Impact Analysis

The geographical area for cumulative hydrology and water quality impacts is the Santa Margarita Groundwater Basin.

Impact HYD-5: Contribute to cumulatively considerable effects on hydrology and water quality.

As described above, the project has been evaluated for the potential to interfere with groundwater recharge, the potential to increase stormwater run-off, and the potential to transport of pollutants from the side that could degrade water quality. As part of project

7 Refer to Tables 12-2, 12-4, and 12-6 of the SVWD 2020 Urban Water Management Plan for normal, dry, and multiple dry-years supply and demand comparison.

development, the project applicant would be required to prepare a SWPPP and adhere to Tier 4 PCR requirements, pursuant to existing regulations.

Present and reasonably foresee future projects larger than one acre would also be required to prepare a SWPPP. Similarly, present and reasonably foreseeable future projects that create or replace 2,500 sf or more of impervious area would be required to meet PCR standards, with the Tier dependent upon the total impervious surface created or replaced.

Regarding groundwater overdraft and recharge, past, present, and reasonably foreseeable future projects are encompassed within the SLVWD demand projections through 2040 (UWMP, 2020). Based upon the UWMP, SLVWD has adequate supply to meet demand during normal, dry, and multiple-dry years, based on City and County growth projections. The project's incremental increase in water demand would not exceed the supply capacity nor the capacity of the water delivery system. The use of recycle water service (provided by the SVWD) would reduce overall potable water demand. Since the recent multi-year drought, SLVWD has experienced a downward trend in the systemwide demand and anticipates continued per capita consumption decreases due to the changes in plumbing fixtures, outdoor irrigation improvements, and customer awareness on water use efficiency.

The project, combined with these projects, would result in less than significant cumulative impacts to groundwater, stormwater quantity and water quality and no mitigation is required.

### 12.5.5 Level of Significance after Mitigation

Table 12 4: Summary of Impacts and Mitigation Measures – Hydrology & Water Quality summarizes the environmental impacts, significance determinations, and mitigation measures for the project with regard to hydrology & water quality.

**Table 12-4: Summary of Impacts and Mitigation Measures – Hydrology & Water Quality**

| Impact | Impact Significance | Mitigation |
|---|---|---|
| Impact HYD-1: Contribute to the depletion of local groundwater supplies or interfere with groundwater recharge. | Less than Significant | None required |
| Impact HYD-2: Increase stormwater runoff due to the increase in impervious surfaces. | Less than Significant | None required |
| Impact HYD-3: Substantially alter drainage patterns on- or off-site that would result in the storm water transport of pollutants, bacteria, salts, and sediment into downstream facilities. | Less than Significant | None required |
| Impact HYD-4: Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan. | Less than Significant | None required |
| Impact HYD-5: Contribute to cumulatively considerable effects on hydrology and water quality. | Less than Significant | None required |

## 12.6 References

CASQA (California Stormwater Quality Association). 2019. "Construction BMP Online Handbook." Available at: https://www.casqa.org/resources/bmp-handbooks/construction.

DWR (California Department of Water Resources). 2003. "Guidebook for Implementation of Senate Bill 610 and Senate Bill 221 of 2001 to assist water suppliers, cities, and counties in integrating water and land use planning."

Kennedy Jenks. 2011. *Tech Memo Evaluation Recharge Potential*. Available at: https://www.svwd.org/sites/default/files/documents/reports/Tech%20Memo%20Evaluation%20Recharge%20Potential%20Feb%202011.pdf

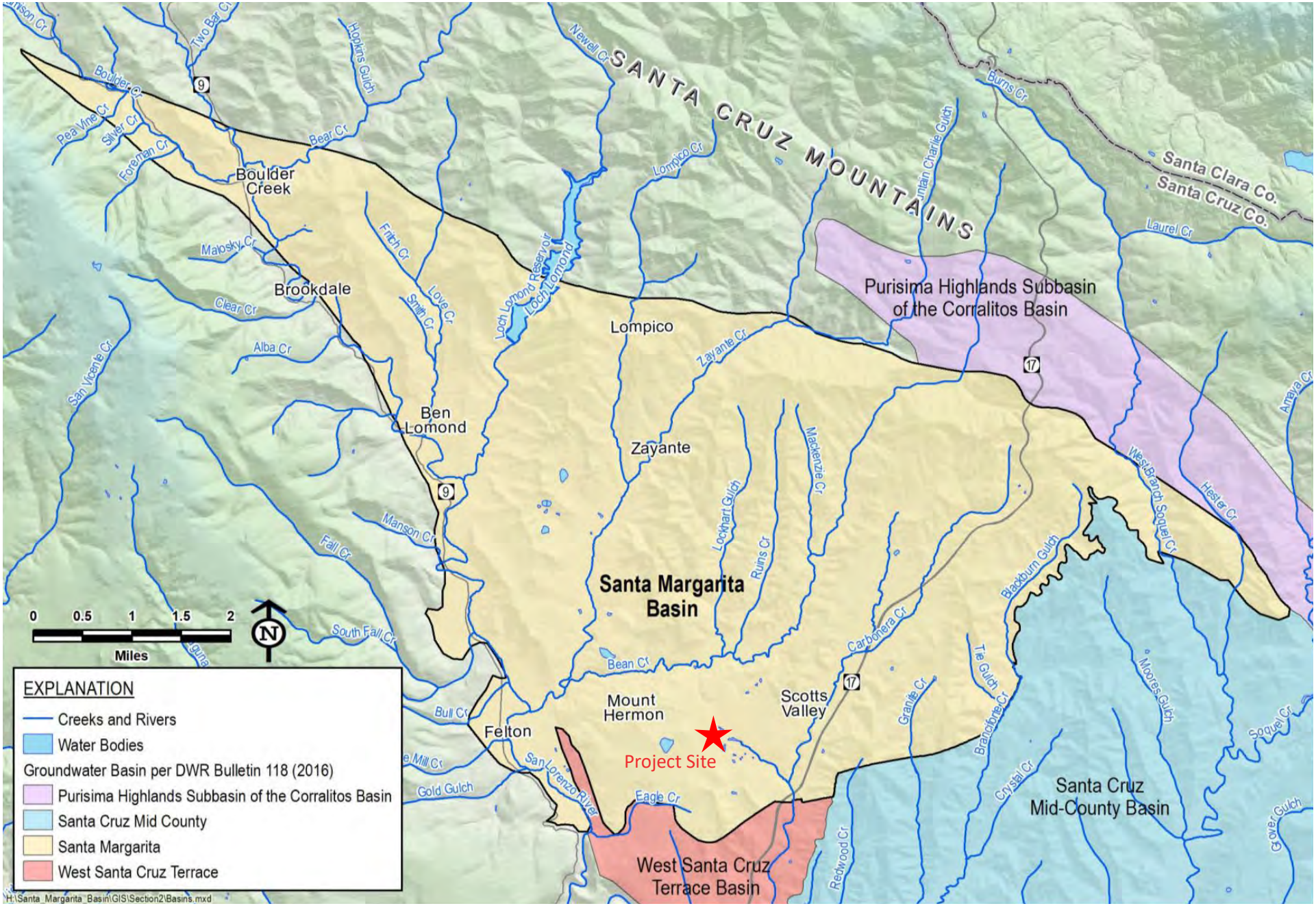
San Lorenzo Valley Water District. 2024. Will Serve Letter for the Valley Gardens Development, dated June 6, 2024.

Scotts Valley Water District. 2019. *Annual Report - Water Year 2018 Scotts Valley Water District Groundwater Management Plan*. Prepared by Montgomery & Associates.

Scotts Valley Water District and San Lorenzo Valley Water District. June 2021. *2020 Urban Water Management Plan*, prepared by Montgomery & Associates and WSC.

Scotts Valley Water District . 2019. Letter RE: Will Serve Letter for Mt. Hermon Road/Glen Canyon Road, APN #022-162-76. August 27.

U.S. ACE (U.S. Army Corps of Engineers). 2008. A Field Guide to the Identification of the Ordinary High-Water Mark (OHWM) in the Arid West Region of the Western United States: A Delineation Manual.




Source: Santa Margarita Groundwater Sustainability Plan, 2021

**Figure 12-2: Groundwater Basins**

Valley Gardens
*EIR*

Not to scale

Kimley»Horn
Expect More. Experience Better.

# 13 Land Use & Planning

## 13.1 Introduction

This section describes effects on land use that would be caused by implementation of the project. The following discussion addresses existing environmental conditions in the affected area, identifies and analyzes environmental impacts, and recommends measures to reduce or avoid adverse impacts from project construction and operation. In addition, existing laws, regulations, and standards relevant to land use and recreation are described. In some cases, compliance with these existing laws and regulations would serve to reduce or avoid certain impacts.

Information used to prepare this section came from the following resources:

- City of Scotts Valley, *General Plan*, November 2023.
- City of Scotts Valley, *Municipal Code*, as amended.

## 13.2 Scoping Issues Addressed

During the scoping period for the project, no written comments by agencies and the public regarding land use was received.

## 13.3 Environmental Setting

This section presents information on the existing conditions of the project site for land use.

### 13.3.1 Project Site Land Uses

The project site is currently vacant and was previously occupied by the Valley Gardens Golf Course, which closed in 2018. The project site is currently undeveloped but for a few maintenance structures and a portable building associated with the previous golf course. Other features include two former ponds (now dry), two groundwater wells, and an asphalt parking lot.

### 13.3.2 Adjacent Land Uses

Residences border the project site to the south, east, and west. To the north of the project site are commercial uses comprised of a medical office, gym, fast food restaurant, pharmacy and grocery store. Mt. Hermon Road also borders a portion of the project site to the north.

### 13.3.3 Existing Planning Designations

#### General Plan Land Use

The project site has a General Plan land use designation of Service Commercial (C-S) on nearly one acre adjacent to Mt. Hermon Road. Allowed and uses include retail stores and shops, food

and motel/hotel establishments, services such as printing shops and electrical repair shops, heating and ventilating shops.

The remainder of the project site has land use designation of Open Space (OS). Appropriate open space areas include wetlands and open water, plant and wildlife habitats, timber production zones, farmlands and grazing areas, and park and recreational areas.

### Zoning

An approximately one-acre portion of the project site adjacent to Mount Herman Road is currently zoned Service Commercial (C-S). This district is designed to create and maintain areas accommodating city-wide and regional service that may be inappropriate in neighborhood or pedestrian-oriented shopping areas and which generally require automotive access for customer convenience

Permitted uses in the C-S district include:

- Retail establishments
- Banks
- Business and personal service establishments
- Emergency shelters (≤25 occupants)
- Medical, professional and general business offices
- Radio and television broadcast studios (excluding transmission towers)
- Accessory structures and uses located on the same site with a permitted use which are customarily incidental to the permitted use
- Multiple-family dwellings located either above the ground-level commercial use or at ground level at the rear of a commercial space on sites designated in the Housing Element
- Day care centers

The remainder of the project site is zoned Open Space (OS). This land use classification is designed to preserve and enhance the use of open-space lands as a limited and valuable resource. It is further intended to permit limited but reasonable use of open-space land while protecting the public health, safety and welfare; to ensure the continued availability of land in agricultural production; to preserve the topography of the city that shapes it and gives it identity; and to implement the city's open space element of the General Plan.

Permitted uses in the OS zone include:

- Fish and wildlife management activities or facilities
- Flood-control channels and drainage facilities
- Public and private recreation areas, parks, playgrounds, wildlife preserves and timber preserves

- Watershed management activities or facilities, including but not limited to aquifer recharge areas, stream restoration projects and related activities
- Accessory uses and structures located on the same site with a permitted use which are customarily incidental to the permitted use, including but not limited to incidental storage facilities and signs which pertain only to a permitted use on the premises and which are in accordance with the provisions of Chapter 17.56 of the Scotts Valley Municipal Code.

## 13.4 Applicable Regulations, Plans, and Standards

### 13.4.1 Local

#### Scotts Valley General Plan

The project is subject to the existing City of Scotts Valley General Plan (the General Plan), which was adopted by the City of Scotts Valley City Council in November 2023. The General Plan, as amended, establishes policies for the orderly growth and development of the City of Scotts Valley. Among other purposes, the plan identifies policies necessary to protect and enhance those features and services which contribute to the quality of life of the community in which it serves.

The following development-related policies from the Scotts Valley General Plan (2023) would avoid or help reduce impacts associated with the project:

LU-1.10 **Compatible Development**. Encourage new commercial and residential development that is compatible with neighboring land uses and development patterns, through the incorporation of design guidelines and, where appropriate, mitigation measures.

LU-1.15 **Coordination with Utility Providers**. Work with utility providers to identify future utility expansion needs. Obtain easements from property owners to extend private utilities and/or promote cooperation between utility providers and property owners for acquiring easements or rights-of-way for utility expansions.

LU-3.12 **Infrastructure Costs**. Require new development to pay its proportional share of the costs of expanded infrastructure needed to serve new development.

LU-3.13 **Mass and Scale**. Encourage that the mass, scale and height of new development is compatible with existing homes within residential neighborhoods.

LU-3.14 **Multi-Family Transition**. Encourage new multi-family housing located adjacent to single-family homes respects the size, scale, massing, and appearance of neighboring properties.

LU-3.15 **Architectural Character**. Encourage that the architectural character of new development and substantial remodels complements the qualities of the neighborhood in which it is located and the overall valley character of Scotts Valley.

## 13.5 Environmental Impacts and Mitigation Measures

### 13.5.1 Significance Criteria

The following significance criteria for land use & planning were derived from the Environmental Checklist in CEQA Guidelines Appendix G. These significance criteria have been amended or supplemented, as appropriate, to address lead agency requirements and the full range of potential impacts related to this project.

An impact of the project would be considered significant and would require mitigation if it would meet one of the following criteria.

- Physically divide an established community.
- 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.

### 13.5.2 Summary of No and/or Beneficial Impacts

#### Physically Divide an Established Community

The project would not physically divide an established community because it is located in within the City limits and proposed land use designation and zoning changes for the project site would be compatible with surrounding land uses. In addition, existing roadway connections to the surrounding community would be maintained. Therefore, there would be no impact.

The environmental effects related to compatibility between proposed on-site land uses and adjacent land uses during both construction and operation are described in the respective impact section of the following environmental resource chapters: Aesthetics, Air Quality, GHG Emissions, Hazards & Hazardous Materials, and Noise & Vibration.

### 13.5.3 Impacts of the Project

Impact LU-1: Substantially conflict with an applicable land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect.

#### General Plan Amendment

As shown in Figure 3-11: Existing and Proposed General Plan Designation, the project would include a General Plan Amendment to change the boundaries of the existing Open Space (OS) and Commercial Service (C-S) land use designations and create three new land use

designations: 1) Residential - Medium High (R-MH) and 2) Residential – Very-High (R-VH), and 3) Public / Quasi Public (P).

The R-MH designation allows for a density range of 5 to 9 units per acre and the R-VH designation allows for a density range of 15.1 to 20 units per acre. The C-S designation allows for 45 percent building coverage and a maximum height of 35 feet. The OS designation is designed to preserve and enhance the use of open-space lands as a limited and valuable resource. The P designation allows for governmental, public utility, educational, community service, religious or recreational facilities.

### Zone Change

As shown in Figure 3-12: Existing and Proposed Zoning Designation, the re-zone would change the boundaries of the existing Open Space (OS) and Commercial Service (C-S) designations and add three new designations: 1) R-M-6 Residential Medium High, 2) R-VH Very-High Residential, and 3) P Public / Quasi Public.

The R-M-6 designation is intended to provide areas for single-family subdivisions and townhouse and condominium development with a minimum lot size of 6,000 sf. The R-VH designation is intended to provide areas for multi-family subdivisions at a minimum density of 3,000 sf per dwelling unit.

The C-S designation is intended to create and maintain areas accommodating city-wide and regional service that may be inappropriate in neighborhood or pedestrian-oriented shopping areas and which generally require automotive access for customer convenience, servicing of vehicles or equipment, loading or unloading, or parking of commercial service vehicles.

The OS designation is designed to preserve and enhance the use of open-space lands as a limited and valuable resource. Permitted uses include public and private recreation areas, parks, and playgrounds, as well as drainage facilities. The P designation allows for governmental, public utility, educational, community service, religious or recreational facilities.

Planned Development (PD) districts may be combined with base zoning districts and are individually designed to meet the needs of the property. Development of the property can only occur pursuant to a PD permit issued in strict conformity with the general development plan, or with the underlying base district. The general development plan must be adopted as part of the PD and includes detailed specifications such as permitted land uses and sizes, landscape areas and open space, dimensioned streets and driveways (both public and private), use standards, and other development standards. Multiple-family dwellings located either above the ground-level commercial use or at ground level at the rear of a commercial space on sites designated in the Housing Element (which applies to this project) are permitted.

### General Plan and Zoning Consistency

Concurrent with City Council approval, the project would be consistent with the amended General Plan land use and zoning designations for the project site. Any potential conflicts with

the development standards—such as maximum height, setback, or other requirements—would be resolved through the Planned Development (Zoning) Overlay and Permits (PD) general development plan approval process in the portions of the project site zoned R-M-6/PD and C-S/PD.

#### Ordinances and Regulations

The project would be required to comply with all applicable City of Scotts Valley ordinances and regulations. Furthermore, the project would be required to comply with all approved Conditions of Approval, as augmented by the decision-makers.

### 13.5.4 Cumulative Impact Analysis

The geographic area for the analysis of cumulative impacts to land use and planning is the City of Scotts Valley.

#### Impact LU-2: Contribute to cumulatively considerable land use impacts.

Land use impacts would be cumulatively considerable if the project, in conjunction with other past, present, reasonably foreseeable future projects, would either preclude a permitted land use or create a disturbance that would diminish the function of a particular land use.

As described above, concurrent with City Council approval, the project would be consistent with Scotts Valley General Plan land use and zoning designations for the project site. All feasible mitigation measures to address environmental impacts of the project have been described in this EIR.

As such, the project would not result in a general intensification of residential and/or commercial land uses in the City of Scotts Valley beyond that already envisioned in the General Plan. There is no indication that the increase in residential and commercial uses would result in any inherent land use conflicts that would diminish the function of another land use. To the contrary, the consistency of residential projects, combined with the proposed commercial-service development in designated locations, would complement existing and proposed development. Cumulative land use impacts would be less than significant.

### 13.5.5 Level of Significance after Mitigation

Table 13 1: Summary of Impacts and Mitigation Measures – Land Use & Planning summarizes the environmental impacts, significance determinations, and mitigation measures for the project with regard to land use & planning. Potential impacts would be less than significant and no mitigation measures are required.

**Table 13-1: Summary of Impacts and Mitigation Measures – Land Use & Planning**

| Impact | Impact Significance | Mitigation |
|---|---|---|
| Impact LU-1: Substantially conflict with an applicable land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect | Less than significant | None required |
| Impact LU-2: Contribute to cumulatively considerable land use impacts | Less than significant | None required |

## 13.6 References

City of Scotts Valley. 2023. Scotts Valley General Plan.

City of Scotts Valley. 2024. Municipal Code.

# 14 Noise & Vibration

## 14.1 Introduction

This section describes the potential noise effects of residential development pursuant to the project.

Information used to prepare this section came from the following resources:

- Project application and related materials
- City of Scotts Valley, Scotts Valley General Plan, 2023
- City of Scotts Valley, Municipal Code, as amended
- Noise Modelling Data (Appendix G)

## 14.2 Scoping Issues Addressed

During the scoping period for the project, no written comments by agencies and the public regarding noise and vibration were received.

## 14.3 Environmental Setting

### 14.3.1 General Information on Noise

Noise is defined as loud, unexpected, or annoying sound. The fundamental acoustics model consists of a noise source, receptor, and the propagation path between the two. The loudness of the noise source, obstructions, or atmospheric factors affecting the propagation path, determine the perceived sound level and noise characteristics at the receptor. Acoustics deal primarily with the propagation and control of sound. A typical noise environment consists of ambient noise that is the sum of many distant and indistinguishable noise sources. Superimposed on this ambient noise is the sound from individual local sources. These sources can vary from an occasional aircraft or train passing by to continuous noise from traffic on a major highway. Perceptions of sound and noise are highly subjective from person to person.

Measuring sound directly in terms of pressure would require a large range of numbers. To avoid this, the decibel (dB) scale was devised. The dB scale uses the hearing threshold of 20 micropascals (µPa) as a point of reference, defined as 0 dB. Other sound pressures are then compared to this reference pressure, and the logarithm is taken to keep the numbers in a practical range.

#### Noise Descriptors

The dB scale alone does not adequately characterize how humans perceive noise. The dominant frequencies of a sound have a substantial effect on the human response to that sound. Several rating scales have been developed to analyze the adverse effect of community

noise on people. Because environmental noise fluctuates over time, these scales consider that the effect of noise on people is largely dependent on the total acoustical energy content of the noise, as well as the time of day when the noise occurs. The equivalent noise level (Leq) is the average noise level averaged over the measurement period, while the day-night noise level (DNL) and Community Equivalent Noise Level (CNEL) are measures of energy average during a 24-hour period, with dB weighted sound levels from 7:00 PM to 7:00 AM Most commonly, environmental sounds are described in terms of Leq that has the same acoustical energy as the summation of all the time-varying events. Each is applicable to this analysis and defined Table 14-1: Definitions of Acoustical Terms.

**Table 14-1: Definitions of Acoustical Terms**

| Term | Definitions |
|---|---|
| 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. |
| Sound Pressure Level | Sound pressure is the sound force per unit area, usually expressed in µPa (or 20 micronewtons per square meter), where 1 pascals 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 dB 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 µPa). 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 dB 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 acoustic energy content of noise for a stated period of time. Thus, the $L_{eq}$ of a time-varying noise and that of a steady noise are the same if they deliver the same acoustic energy to the ear during exposure. For evaluating community impacts, this rating scale does not vary, regardless of whether the noise occurs during the day or the night. |
| Maximum Noise Level ($L_{max}$) Minimum Noise Level ($L_{min}$) | The maximum and minimum dBA during the measurement period. |
| Exceeded Noise Levels ($L_{01}$, $L_{10}$, $L_{50}$, $L_{90}$) | The dBA values that are exceeded 1%, 10%, 50%, and 90% of the time during the measurement period. |
| Day-Night Noise Level (DNL) | A 24-hour average $L_{eq}$ with a 10 dBA weighting added to noise during the hours of 10:00 PM to 7:00 AM to account for noise sensitivity at nighttime. The logarithmic effect of these additions is that a 60 dBA 24-hour $L_{eq}$ would result in a measurement of 66.4 dBA DNL. |

| Term | Definitions |
|---|---|
| Community Noise Equivalent Level (CNEL) | A 24-hour average $L_{eq}$ with a 5 dBA weighting during the hours of 7:00 AM to 10:00 AM and a 10 dBA weighting added to noise during the hours of 10:00 PM to 7:00 AM to account for noise sensitivity in the evening and nighttime, respectively. The logarithmic effect of these additions is that a 60 dBA 24-hour $L_{eq}$ would result in a measurement of 66.7 dBA CNEL. |
| 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 on its amplitude, duration, frequency, and time of occurrence and tonal or informational content as well as the prevailing ambient noise level. |

The A-weighted decibel (dBA) sound level scale gives greater weight to the frequencies of sound to which the human ear is most sensitive. 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 used. 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.

The scientific instrument used to measure noise is the sound level meter. Sound level meters can accurately measure environmental noise levels to within about 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 on the distance between the receptor and the noise source.

### Addition of Decibels

The dB scale is logarithmic, not linear, and therefore sound levels cannot be added or subtracted through ordinary arithmetic. Two sound levels 10 dB apart differ in acoustic energy by a factor of 10. When the standard logarithmic dB is A-weighted, an increase of 10 dBA is generally perceived as a doubling in loudness. For example, a 70-dBA sound is half as loud as an 80-dBA sound and twice as loud as a 60-dBA sound. When two identical sources are each producing sound of the same loudness, the resulting sound level at a given distance would be 3 dBA higher than one source under the same conditions. Under the dB scale, three sources of equal loudness together would produce an increase of 5 dBA.

### Sound Propagation and Attenuation

Sound spreads (propagates uniformly outward in a spherical pattern, and the sound level decreases (attenuates) at a rate of approximately 6 dB for each doubling of distance from a stationary or point source. Sound from a line source, such as a highway, propagates outward in a cylindrical pattern. Sound levels attenuate at a rate of approximately 3 dB for each doubling of distance from a line source, such as a roadway, depending on ground surface characteristics. No excess attenuation is assumed for hard surfaces like a parking lot or a body of water. Soft surfaces, such as soft dirt or grass, can absorb sound, so an excess ground-attenuation value of

1.5 dB per doubling of distance is normally assumed. For line sources, an overall attenuation rate of 3 dB per doubling of distance is assumed.

Noise levels may also be reduced by intervening structures; generally, a single row of buildings between the receptor and the noise source reduces the noise level by about 5 dBA, while a solid wall or berm reduces noise levels by 5 to 10 dBA. The way older homes in California were constructed generally provides a reduction of exterior-to-interior noise levels of about 20 to 25 dBA with closed windows. The exterior-to-interior reduction of newer residential units is generally 30 dBA or more.

### Human Response to Noise

The human response to environmental noise is subjective and varies considerably from individual to individual. Noise in the community has often been cited as a health problem, not in terms of actual physiological damage, such as hearing impairment, but in terms of inhibiting general well-being and contributing to undue stress and annoyance. The health effects of noise in the community arise from interference with human activities, including sleep, speech, recreation, and tasks that demand concentration or coordination. Hearing loss can occur at the highest noise intensity levels.

Noise environments and consequences of human activities are usually well represented by median noise levels during the day or night or over a 24-hour period. Environmental noise levels are generally considered low when the CNEL is below 60 dBA, moderate in the 60 to 70 dBA range, and high above 70 dBA. Examples of low daytime levels are isolated, natural settings with noise levels as low as 20 dBA and quiet, suburban, residential streets with noise levels around 40 dBA. Noise levels above 45 dBA at night can disrupt sleep. Examples of moderate-level noise environments are urban residential or semi-commercial areas (typically 55 to 60 dBA) and commercial locations (typically 60 dBA). People may consider louder environments adverse, but most will accept the higher levels associated with noisier urban residential or residential-commercial areas (60 to 75 dBA) or dense urban or industrial areas (65 to 80 dBA). Regarding increases in dBA, the following relationships should be noted:

- Except in carefully controlled laboratory experiments, a 1-dBA change cannot be perceived by humans.
- Outside of the laboratory, a 3-dBA change is considered a just-perceivable difference.
- A minimum 5-dBA change is required before any noticeable change in community response would be expected. A 5-dBA increase is typically considered substantial.
- A 10-dBA change is subjectively heard as an approximate doubling in loudness and would almost certainly cause an adverse change in community response.

### Effects of Noise on People

While physical damage to the ear from an intense noise impulse is rare, a degradation of auditory acuity can occur even within a community noise environment. Hearing loss occurs

mainly due to chronic exposure to excessive noise but may be due to a single event such as an explosion. Natural hearing loss associated with aging may also be accelerated from chronic exposure to loud noise. The Occupational Safety and Health Administration has a noise exposure standard that is set at the noise threshold where hearing loss may occur from long-term exposures. The maximum allowable level is 90 dBA averaged over 8 hours. If the noise is above 90 dBA, the allowable exposure time is correspondingly shorter.

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 causes for annoyance include interference with speech, radio and television, house vibrations, and interference with sleep and rest. People have been asked to judge the annoyance caused by aircraft noise and ground transportation noise. A noise level of about 55 dBA DNL is the threshold at which a substantial percentage of people begin to report annoyance[8].

### 14.3.2 General Information on Vibration

Sources of groundborne vibrations include natural phenomena (earthquakes, volcanic eruptions, sea waves, landslides, etc.) or man-made causes (explosions, machinery, traffic, trains, construction equipment, etc.). Vibration sources may be continuous (e.g., factory machinery) or transient (e.g., explosions). 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 is the peak particle velocity (PPV); another is the root mean square (RMS) velocity. The PPV is defined as the maximum instantaneous positive or negative peak of the vibration wave. The RMS velocity is defined as the average of the squared amplitude of the signal. The PPV and RMS vibration velocity amplitudes are used to evaluate human response to vibration.

*Table 14-2: Human Response to Different Levels of Groundborne Vibration*, displays the reactions of people and the effects on buildings produced by continuous vibration levels. The annoyance levels shown in the table should be interpreted with care since vibration may be found to be annoying at much lower levels than those listed, 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. In high noise environments, which are more prevalent where groundborne vibration approaches perceptible levels, this rattling phenomenon may also be produced by loud airborne environmental noise causing induced vibration in exterior doors and windows.

Ground vibration can be a concern in instances where buildings shake, and substantial rumblings occur. However, it is unusual for vibration from typical urban sources such as buses

8 Federal Interagency Committee on Noise, *Federal Agency Review of Selected Airport Noise Analysis Issues*, August 1992.

and heavy trucks to be perceptible. Common sources for groundborne vibration are planes, trains, and construction activities such as earthmoving which requires the use of heavy-duty earth moving equipment. For the purposes of this analysis, a PPV descriptor with units of inches per second (in/sec) is used to evaluate construction-generated vibration for building damage and human complaints.

**Table 14-2: Human Response to Different Levels of Groundborne Vibration**

| Peak Particle Velocity (in/sec) | Approximate Vibration Velocity Level (VdB) | Human Reaction | Effect on Buildings |
|---|---|---|---|
| 0.006-0.019 | 64-74 | Range of threshold of perception | Vibrations unlikely to cause damage of any type |
| 0.08 | 87 | Vibrations readily perceptible | Recommended upper level to which ruins and ancient monuments should be subjected |
| 0.1 | 92 | Level at which continuous vibrations may begin to annoy people, particularly those involved in vibration sensitive activities | Virtually no risk of architectural damage to normal buildings |
| 0.2 | 94 | Vibrations may begin to annoy people in buildings | Threshold at which there is a risk of architectural damage to normal dwellings |
| 0.4-0.6 | 98-104 | Vibrations considered unpleasant by people subjected to continuous vibrations and unacceptable to some people walking on bridges | Architectural damage and possibly minor structural damage |

Source: California Department of Transportation, Transportation and Construction-Induced Vibration Guidance Manual, 2004.

### 14.3.3 Existing Noise Sources

The City of Scotts Valley is impacted by various noise sources. Mobile sources of noise, especially cars and trucks, are the most common and significant sources of noise in most communities. Other sources of noise are the various land uses (i.e., residential, commercial, institutional, and recreational and parks activities) throughout the City that generate stationary-source noise.

The project site is located near the city center. Noise generated from vehicles traveling along Highway 17 through the City of Scotts Valley represents one of the city's largest noise generation sources. The project site is located adjacent to Mt. Hermon Road and near Lockewood Lane. Mt. Hermon is a four-lane divided arterial and Lockewood Lane is a two-lane arterial. These roadways produce substantial noise from motor vehicle traffic. Other roadways

within the project site's vicinity that could produce motor vehicle traffic noise include Scotts Valley Drive, Spring Lakes Drive, and Skypark Drive.

### Existing Mobile Noise

Existing roadway noise levels were calculated for the roadway segments in the project vicinity. This task was accomplished using the Federal Highway Administration (FHWA) Highway Traffic Noise Prediction Model (FHWA-RD-77-108) and existing traffic volumes (see Appendix G). The noise prediction model calculates the average noise level at specific locations based on traffic volumes, average speeds, roadway geometry, and site environmental conditions. The average vehicle noise rates (also referred to as energy rates) used in the FHWA model have been modified to reflect average vehicle noise rates identified for California by Caltrans. The Caltrans data indicates that California automobile noise is 0.8 to 1.0 dBA higher than national levels and that medium and heavy truck noise is 0.3 to 3.0 dBA lower than national levels. The modelled average daily noise levels along roadway segments in proximity to the project site are shown in Table 14-3: Existing Traffic Noise.

**Table 14-3: Existing Traffic Noise**

| Roadway Segment | ADT | dBA $L_{dn}$[1] |
|---|---|---|
| **Lockewood Lane** | | |
| Lockewood Lane from Graham Hill Road to Estrella Drive | 4,000 | 55.4 |
| Lockewood Lane from Estrella Drive to Project Driveway | 3,760 | 55.5 |
| Lockewood Lane from Project Driveway to Mt. Hermon Road | 4,620 | 56.4 |
| **Mt. Hermon Road** | | |
| Mt. Hermon Road from Lockewood Lane to CVS Driveway | 46,460 | 67.4 |
| Mt. Hermon Road from CVS Driveway to Kings Village Road | 26,350 | 65.0 |
| Mt. Hermon Road from Kings Village Road to Spring Lakes Drive | 26,170 | 64.9 |
| Mt. Hermon Road from Spring Lakes Drive to Scotts Valley Drive | 30,790 | 65.6 |
| Mt. Hermon Road from Scotts Valley Drive to La Madrona Drive | 29,140 | 65.4 |

ADT = average daily trips; dBA = A-weighted decibels; Ldn = day-night noise level
Notes
1) Traffic noise levels are at 100 feet from the roadway centerline.
Source: Based on traffic data provided by Kimley-Horn, 2022.

The project site is surrounded by single-family residential neighborhoods and commercial uses. A McDonald's restaurant is located adjacent to the east of the project site. Residential uses exist west, east, and south of the project site. The existing mobile noise in the project area are generated along Mt. Hermon Road to the north, Lockewood Lane to the west, and Dunn Lane to the south.

### 14.3.4 Sensitive Receptors

Noise exposure standards and guidelines for various types of land uses reflect the varying noise sensitivities associated with each of these uses. Residences, hospitals, schools, guest lodging, libraries, and churches are treated as the most sensitive to noise intrusion and therefore have more stringent noise exposure targets than do other uses, such as manufacturing or agricultural uses that are not subject to impacts such as sleep disturbance. As shown in Table 6-4: Sensitive Receptors in Chapter 6 Air Quality above, sensitive receptors near the project site include adjoining single-family residences.

## 14.4 Applicable Regulations, Plans, and Standards

To limit population exposure to physically or psychologically damaging as well as intrusive noise levels, the Federal government, the State of California, various county governments, and most municipalities in the state have established standards and ordinances to control noise.

### 14.4.1 State

#### California Government Code

California Government Code Section 65302(f) mandates that the legislative body of each county and city adopt a noise element as part of its comprehensive general plan. The local noise element must recognize the land use compatibility guidelines established by the State Department of Health Services. The guidelines rank noise land use compatibility in terms of "normally acceptable", "conditionally acceptable", "normally unacceptable", and "clearly unacceptable" noise levels for various land use types. Single-family homes are "normally acceptable" in exterior noise environments up to 60 CNEL and "conditionally acceptable" up to 70 CNEL. Multiple-family residential uses are "normally acceptable" up to 65 CNEL and "conditionally acceptable" up to 70 CNEL. Schools, libraries, and churches are "normally acceptable" up to 70 CNEL, as are office buildings and business, commercial, and professional uses.

#### Title 24 – Building Code

The State's noise insulation standards are codified in the California Code of Regulations, Title 24: Part 1, Building Standards Administrative Code, and Part 2, California Building Code. These noise standards are applied to new construction in California for interior noise compatibility from exterior noise sources. The regulations specify that acoustical studies must be prepared when noise-sensitive structures, such as residential buildings, schools, or hospitals, are located near major transportation noise sources, and where such noise sources create an exterior noise level of 65 dBA CNEL or higher. Acoustical studies that accompany building plans must demonstrate that the structure has been designed to limit interior noise in habitable rooms to acceptable noise levels. For new multi-family residential buildings, the acceptable interior noise limit for new construction is 45 dBA CNEL.

## 14.4.2 Local

### City of Scotts Valley General Plan

The Scotts Valley General Plan identifies goals, policies, and implementations in the Noise Element. The Noise Element provides a basis for comprehensive local programs to regulate environmental noise and protect citizens from excessive exposure. Table 14-4: Land Use Compatibility Guidelines for Community Noise in Scotts Valley, highlights various land-use categories and the outdoor noise compatibility guidelines.

**Table 14-4: Land Use Compatibility Guidelines for Community Noise in Scotts Valley**

| Land-Use Category | Exterior Noise Exposure (DNL), in dBA | | |
|---|---|---|---|
| | Normally Acceptable[1] | Normally Unacceptable[2] | Conditionally Acceptable[3] |
| Residential Low Density Single-Family, Duplex, Mobile Homes | Up to 60 | >55 to 70 | >70 to 75 |
| Residential – Multi-Family | Up to 65 | >60 to 70 | >70 to 75 |
| Transient Lodging – Motels, Hotels | Up to 65 | >60 to 70 | >70 to 80 |
| Schools, Libraries, Churches, Hospitals, Nursing Homes | Up to 70 | >60 to 70 | >70 to 80 |
| Auditoriums, Concert Halls, Amphitheaters | N/A | Up to 70 | N/A |
| Office Buildings, Business Commercial, and Professional Offices | Up to 70 | >65 to 75 | >75 |
| Sports Area, Outdoor Spectator Sports | Up to 75 | N/A | N/A |
| Playgrounds, Neighborhood Parks | Up to 70 | N/A | >65 to 75 |
| Golf Courses, Riding Stables, Water Recreation, Cemeteries | Up to 75 | N/A | >80 |
| Industrial, Manufacturing Utilities, Agricultural | Up to 75 | >70 to 80 | >75 |

Sound levels above are as measured at the exterior of the proposed location of the new development (e.g., residential unit, commercial building, etc.) rather than at the property boundary of the source or the property to be developed.
[1] Normally Acceptable – Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal conventional construction. There are no special noise insulation requirements.
[2] Normally Unacceptable –New construction should be discouraged and may be denied as inconsistent with the General Plan and City Code. 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.
[3] Conditionally Acceptable – New construction should be undertaken only after a detailed analysis of the noise reduction requirement is conducted and needed noise insulation features included in the design.

Source: City of Scotts Valley General Plan, 2023.

The following development-related policies from the Scotts Valley General Plan (2023) will avoid or help reduce noise impacts associated with the project:

SN-7.4 **Noise Sensitive Land Uses**. Seek to avoid placing noise sensitive land uses (e.g., residential, hospitals, assisted living facilities, group homes, schools, day care centers, etc.) within the high noise impact areas (over 65 dB CNEL).

SN-7.5 **New Development Noise Attenuation.** New developments that are conditionally acceptable or increase the day-night noise level by more than the levels shown in Table SN-2: Noise Increase Standards, shall conduct a noise study to determine that the appropriate noise attenuation design measures have been incorporated to the City's satisfaction.

SN-7.6 **Incompatible Noise Levels.** New developments that are considered noise sensitive shall not be located in proximity to existing noise generating uses, unless the existing noise level can be made compatible, through mitigations, with the proposed new sensitive use.

SN-7.7 **Noise Attenuation Techniques.** The City Planning and Building departments shall ensure noise attenuation techniques are constructed in new development projects. The City building inspector will ensure that all design specifications relevant to a project's acoustical design for noise level reduction are completed as approved prior to final approval of any project.

SN-7.8 **Commercial and Industrial Noise Increases.** The City shall strive to meet the local noise levels by careful permit review for noise increases in the case of new commercial or industrial development.

SN-7.9 **Acoustical Engineering Analysis.** The City may require an acoustical engineering analysis to show that new commercial or industrial planned use will not increase the local ambient noise levels by more than the values set forth in the noise element of the General Plan.

SN-7.10 **Noise Level Exceeding 60 dBA.** In areas where the annual day-night noise level exceeds 60 dBA, the City shall require an acoustical engineering study for proposed new construction or renovation of structure(s). Each acoustical analysis should recommend methods to reduce the interior day-night annual average noise levels to below 45 dBA for private dwellings, motels, hotels, office, and noise sensitive uses.

SN-7.11 **Mitigation for Noise Sensitive Land Uses.** Seek to protect schools, hospitals, libraries, churches, convalescent homes, and other noise sensitive uses from excessive noise levels by incorporating site planning and project design techniques to minimize noise impacts. The use of noise barriers should be considered after all practical design-related noise measures have been integrated into the project. In cases where sound walls are necessary, they should help create an attractive setting with features such as setbacks, changes in alignment, detail and texture, murals, pedestrian access (if appropriate), and landscaping.

SN-7.12 **Exterior Noise Measurements.** Exterior noise levels measured at the property line of proposed new residential developments shall be limited to at or below an average annual day-night level of 60 dBA.

SN-7.13 **Noise Levels Exceeding 75 dBA.** New residential development should not be allowed in regions where the annual day-night noise levels exceed 75 dBA.

SN-7.15 **Construction Noise Management.** Ensure that construction activities are managed to minimize overall noise impacts on surrounding land uses.

SN-7.16 **Construction Noise Reduction Plan.** Where appropriate, particularly when located adjacent to sensitive land uses, the City may require construction noise reduction measures as part of project development plans to reduce the effects of construction noise.

SN-7.17 **Use of Truck Routes.** Limit truck traffic in residential and commercial areas to designated truck routes.

### City of Scotts Valley Municipal Code

Section 17.44.020.C3 of the Municipal Code (SVMC) states:

> Noise. At the lot line of all uses specified in Chapters 17.20, 17.22, 17.24, 17.26 and 17.28 of this title, the maximum sound generated by any user shall not exceed seventy-five dbA when adjacent users are industrial or wholesale users. When adjacent to offices or retail, the sound level shall be limited to seventy dbA. When users are adjacent or contiguous to residential, park or institutional uses, the maximum sounds level shall not exceed sixty dbA. Excluded from these standards are occasional noises which are specifically exempted under Section 5.17.030.
>
> Vibration. No vibration shall be permitted which is discernible without instruments at the lot line of the establishment or use.

The noises exempted under Section 5.17.030 include the proper use of a siren or other alarm by a police, fire, or other authorized emergency vehicle, a stationary fire alarm operated by the Fire District, the use of emergency generators by privately owned service facilities (up to a maximum of 75 dBA at the property line), and noise generated by City-permitted construction activities during authorized construction hours.

Section 17.46.160 of the Municipal Code (SVMC) states:

> All construction activity shall be limited to the hours between 8:00 AM and 6:00 PM, Monday through Friday, and 9:00 AM through 5:00 PM on Saturday. No construction activity is allowed on Sunday.

## 14.5 Environmental Impacts and Mitigation Measures

### 14.5.1 Significance Criteria

The following significance criteria for noise were derived from the Environmental Checklist in CEQA Guidelines Appendix G. These significance criteria have been amended or supplemented, as appropriate, to address lead agency requirements and the full range of impacts related to this project.

An impact of the project would be considered significant and would require mitigation if it would meet one of the following criteria.

- 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.
- Generation of excessive groundborne vibration or groundborne noise levels.
- 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.

#### Impacts Assessment Methodology

The analysis of noise impacts considers the effects of both temporary construction-related noise and operational noise associated with long-term project-related activities, including, without limitation, project-generated traffic.

CEQA does not define what construction or operational noise level increase would be considered substantial. Typically, a noise increase of 3 dBA Ldn or greater at a residential receptor would be considered significant when existing ambient noise levels are between 60 and 65 dBA Ldn (FICON, 1992). A noise increase of 5 dBA Ldn or greater at the receptor would be considered a significant impact when existing ambient noise levels are less than 60 dBA Ldn (FICON, 1992).

##### Construction

Construction noise estimates are based upon noise levels from the Federal Highway Administration (FHWA) Roadway Construction Noise Model (FHWA-HEP-05-054) as well as the distance to nearby receptors. Reference noise levels from FHWA are used to estimate noise levels at nearby sensitive receptors based on a standard noise attenuation rate of 6 dB per doubling of distance (line-of-sight method of sound attenuation for point sources of noise). Construction noise level estimates do not account for the presence of intervening structures or topography, which may reduce noise levels at receptor locations. Therefore, the noise levels

presented herein represent a conservative, reasonable worst-case estimate of actual temporary construction noise.

Noise due to construction activities is usually considered to be less than significant under CEQA if the construction activity is temporary and the use of heavy construction equipment and noisy activities are limited to daytime hours. As noted above, City of Scotts Valley Zoning Ordinance (Title 17.46.160) exempts noise sources associated with temporary construction activities, provided such activities occur between 8:00 AM and 6:00 PM Monday through Friday; 9:00 AM and 5:00 PM on Saturday; but not on Sundays or federal holidays.

Groundborne vibration levels associated with construction-related activities for the project were evaluated utilizing typical groundborne vibration levels associated with construction equipment, obtained from Federal Transit Administration (FTA) published data for construction equipment. Potential groundborne vibration impacts related to structural damage and human annoyance were evaluated, considering the distance from construction activities to nearby land uses and typically applied criteria for structural damage and human annoyance.

### Operational

The City's General Plan indicates that increases in noise levels of up to 3 dBA from a proposed development are acceptable for noise-sensitive and residential areas. Therefore, off-site project impacts would be considered significant if an increase of more than 3 dBA occur from project-related operational activities. On-site noise levels would be considered significant if the proposed uses would be exposed to noise levels above thresholds set in section 17.44.020.C.3 of the City's Municipal Code.

This analysis of the existing and future noise environments is based on noise prediction modeling and empirical observations. Predicted construction noise levels were based on typical noise levels generated by construction equipment. The traffic noise levels in the project vicinity were calculated using the FHWA Highway Noise Prediction Model (FHWA-RD-77-108).

## 14.5.2 Summary of No and/or Beneficial Impacts

#### Proximity to a Public or Private Airport

The project site is not located within any airport noise impact contours and not located within the vicinity of any private air stip. Therefore, potential residential development on the project site would not expose residents or workers to excessive noise levels from airport or private air strip operations.

### 14.5.3 Impacts of the Project

#### Construction Impacts

Impact N-1: Cause a temporary or periodic increase in ambient noise levels during construction that would substantially disturb sensitive receptors.

Construction noise typically occurs intermittently and varies depending on the nature or phase of construction (e.g., land clearing, grading, excavation, paving). Noise generated by construction equipment, including earth movers, material handlers, and portable generators, can reach high levels. During construction, exterior noise levels could affect the residential neighborhoods surrounding the construction site. Project construction would occur adjacent from existing single-family residences to the east on Lucia Lane. However, construction activities would occur throughout the project site and would not be concentrated at a single point near sensitive receptors. Noise levels typically attenuate (or drop off) at a rate of 6 dB per doubling of distance from point sources, such as industrial machinery. During construction, exterior noise levels could affect the residential neighborhoods near the construction site.

Grading and excavation phases of project construction tend to be the shortest in duration and create the highest construction noise levels due to the operation of heavy equipment. It should be noted that only a limited amount of equipment can operate near a given location at a particular time. Equipment typically used during this stage includes heavy-duty trucks, backhoes, bulldozers, excavators, front-end loaders, and scrapers. Operating cycles for these types of construction equipment may involve one or two minutes of full-power operation followed by three to four minutes at lower power settings. Other primary sources of noise would be shorter-duration incidents, such as dropping large pieces of equipment or the hydraulic movement of machinery lifts, which would last less than one minute. According to the applicant, no pile-driving would be required during construction.

Construction activities associated with future development would include demolition, site preparation, grading, construction, paving, and architectural coating. Such activities would require graders, scrapers, and tractors during site preparation; graders, dozers, and tractors during grading; cranes, forklifts, generators, tractors, and welders during building construction; pavers, rollers, mixers, tractors, and paving equipment during paving; and air compressors during architectural coating.

Typical operating cycles for these types of construction equipment may involve one or two minutes of full power operation followed by three or four minutes at lower power settings. Other primary sources of acoustical disturbance would be random incidents, which would last less than one minute (such as dropping large pieces of equipment or the hydraulic movement of machinery lifts). Noise generated by construction equipment, including earth movers, material handlers, and portable generators, can reach high levels. Typical noise levels associated with individual construction equipment are listed in Table 14-5: Typical Construction Equipment Noise Levels.

**Table 14-5: Typical Construction Equipment Noise Levels**

| Equipment On-site | Typical Level (dBA) 50 Feet from the Source | Typical Level (dBA) 250 Feet from the Source |
|---|---|---|
| Air Compressor | 80 | 66 |
| Backhoe | 80 | 66 |
| Compactor | 82 | 68 |
| Concrete Mixer | 85 | 71 |
| Concrete Pump | 82 | 68 |
| Concrete Vibrator | 76 | 62 |
| Crane, Mobile | 83 | 69 |
| Dozer | 85 | 71 |
| Generator | 82 | 68 |
| Grader | 85 | 71 |
| Loader | 80 | 66 |
| Paver | 85 | 71 |
| Pump | 77 | 63 |
| Roller | 85 | 71 |
| Saw | 76 | 62 |
| Scraper | 85 | 71 |
| Shovel | 82 | 68 |
| Truck | 84 | 70 |
| Calculated using the inverse square law formula for sound attenuation: $dBA_2 = dBA_1+20Log(d_1/d_2)$ where: $dBA_2$ = estimated noise level at receptor; $dBA_1$ = reference noise level; $d_1$ = reference distance; $d_2$ = receptor location distance. | | |

Source: Federal Transit Administration, Transit Noise and Vibration Impact Assessment Manual, September 2018.

The City of Scotts Valley does not have construction noise standards; however, the FTA Noise and Vibration Manual establishes construction noise standards of 80 dBA $L_{eq}$(8-hour) for residential uses and 90 dBA $L_{eq}$(8-hour) for commercial and industrial uses. As shown in Table 14-5: Typical Construction Equipment Noise Levels maximum noise levels are below 85 dBA at 50 feet. Noise impacts for mobile construction equipment are typically assessed as emanating

from the center of the equipment activity or construction site.[9] For the project, this center point would be approximately 250 feet from the nearest sensitive receptors. As shown in Table 14-5: Typical Construction Equipment Noise Levels, the highest anticipated construction noise level of 85 dBA at 250 feet is expected to occur during the grading phase and building construction phase. These sensitive uses may be exposed to elevated noise levels during project construction. Table 14-5: Typical Construction Equipment Noise Levels shows the loudest pieces of equipment would be 71 dBA at 250 feet. The combined noise level of the loudest pieces of equipment would be 74 dBA at 250 feet. Therefore, construction noise would not exceed the FTA's standards of 90 dBA $L_{eq}$ at residential uses and 100 dBA $L_{eq}$ at commercial and industrial uses.

The project construction would comply with Section 17.46.160 of the Municipal Code, which states that all construction activity shall be limited to the hours between 8:00 AM and 6:00 PM, Monday through Friday, and 9:00 AM through 5:00 PM on Saturday. No construction activity is allowed on Sunday. These permitted hours of construction are included in the code in recognition that construction activities undertaken during daytime hours are a typical part of living in an urban environment and do not cause a significant disruption. Construction would occur throughout the project site and would not be concentrated or confined in the area directly adjacent to sensory receptors. Therefore, construction noise would be acoustically dispersed throughout the project site.

Mitigation measure N-1.1 Construction Noise Reduction would reduce the temporary noise impacts associated with construction of the project. MM N-1.1 includes maintaining good condition of construction equipment and including mufflers, limiting idling to less than five minutes, locating stationary equipment as far from residences as possible, and assigning a noise disturbance coordinator. With implementation of MM N-1.1, construction noise impacts would be less than significant.

In addition, construction noise may be generated by large trucks moving materials to and from the project site. Large trucks would be necessary to deliver building materials as well as remove dump materials. The project will require 44,500 cubic yards of cut, and 46,500 cubic yards of fill; for a net import of 2,000 cubic yards. Based on CalEEMod default assumptions, the project would generate the highest number of daily trips during the grading phase and building construction phase. The project grading phase would generate approximately 229 daily hauling

[9] For the purposes of this analysis, the construction area is defined as the center of the project site per the methodology in the FTA Transit Noise and Vibration Impact Assessment Manual (September 2018). Although some construction activities may occur at distances closer than 620 feet from the nearest properties, construction equipment would be dispersed throughout the project site during various construction activities. Therefore, the center of the project site represents the most appropriate distance based on the sporadic nature of construction activities.

trips (11,425 hauling trips for 50 days). Building construction would have 43 worker trips and 13 vendor trips per day.

Because of the logarithmic nature of noise levels, a doubling of the traffic volume (assuming that the speed and vehicle mix do not also change) would result in a noise level increase of 3 dBA. Mt. Hermon Road, from Lockewood Lane to the CVS driveway, has an average daily trip volume of 46,460 vehicles. Therefore, a maximum of 285 daily project construction trips (total of 229 daily hauling trips, 43 daily worker trips, and 13 vendor daily vendor trips) would not double the existing traffic volume per day. In context to existing conditions, construction-related traffic noise would not be noticeable and would not create a significant noise impact.

The State of California establishes noise limits for vehicles licensed to operate on public roads. For heavy trucks, the State pass by standard is consistent with the federal limit of 80 decibels (dB). The State pass by standard for light trucks and passenger cars (less than 4.5 tons gross vehicle rating) is also 80 dB at 15 meters from the centerline. According to the FHWA, dump trucks typically generate noise levels of 76 dBA and flatbed trucks typically generate noise levels of 74 dBA, at a distance of 50 feet from the truck (FHWA, 2006). As such, noise from truck trips associated with the project would not exceed FTA threshold levels of 90 dBA (one-hour Leq) or 80 dBA (eight-hour $L_{eq}$) (FTA, 2006).

### Mitigation for Impact N-1

#### MM N-1.1 Construction Noise Reduction

To reduce the effects of construction noise, the project applicant shall ensure that the following notes are included as part of all relevant grading and building construction plans:

**Construction Equipment**. Properly maintain construction equipment and ensure that all internal combustion engine driven machinery with intake and exhaust mufflers and engine shrouds (if the equipment had such devices installed as part of its standard equipment package) are in good condition and appropriate for the equipment. Equipment engine shrouds shall be closed during equipment operation. The project applicant shall require all contractors, as a condition of contract, to maintain and tune-up all construction equipment to minimize noise emissions.

**Vehicle and Equipment Idling**. Construction vehicles and equipment shall not be left idling for longer than 5 minutes when not in use.

**Stationary Equipment**. All noise-generating stationary equipment, such as air compressors or portable power generators, shall be located as far as possible from sensitive receptors. Temporary noise barriers shall be constructed to screen stationary noise generating equipment when located near adjoining sensitive land uses. Temporary noise barriers could reduce construction noise levels by 10 dBA.

**Construction Route**. All construction traffic to and from the project site shall be routed via designated truck routes where feasible. All construction-related heavy truck traffic in residential areas shall be prohibited where feasible.

**Workers' Radios**. All noise from workers' radios shall be controlled to a point that they are not audible at sensitive receptors near the construction activity.

**Construction Plan**. Prior to issuance of any grading and/or building permits, the contractor shall prepare and submit to the City of Scotts Valley Building Department for approval a detailed construction plan identifying the schedule for major noise-generating construction activity.

**Disturbance Coordinator**. A "noise disturbance coordinator" shall be designated by the contractor and be responsible for responding to any local complaints about construction noise. The noise disturbance coordinator shall determine the cause of the noise complaint (e.g., starting too early, bad muffler, etc.) and shall require that reasonable measures warranted to correct the problem be implemented. The coordinator shall conspicuously post a name and telephone number for the disturbance coordinator at the construction site and include it in the notice sent to neighbors regarding the construction schedule.

### Impact N-2: Temporarily generate excessive groundborne vibration or groundborne noise.

Increases in groundborne vibration levels attributable to the project would be primarily associated with construction-related activities. Construction on the project site would have the potential to result in varying degrees of temporary groundborne vibration, depending on the specific construction equipment used and the operations involved. Ground vibration generated by construction equipment spreads through the ground and diminishes in magnitude with increases in distance. The effect on buildings located in the vicinity of the construction site often varies depending on soil type, ground strata, and construction characteristics of the receiver building(s). The results from vibration can range from no perceptible effects at the lowest vibration levels, to low rumbling sounds and perceptible vibration at moderate levels, to slight damage at the highest levels. Groundborne vibrations from construction activities rarely reach levels that damage structures.

The FTA has published standard vibration velocities for construction equipment operations. In general, depending on the building category of the nearest buildings adjacent to the potential pile driving area, the potential construction vibration damage criteria vary. For example, for a building constructed with reinforced concrete with no plaster, the FTA guidelines show that a vibration level of up to 0.50 inch per second (in/sec) peak particle velocity (PPV) is considered safe and would not result in any construction vibration damage. In general, the FTA architectural damage criterion for continuous vibrations (i.e., 0.2 in/sec) appears to be conservative. The types of construction vibration impacts include human annoyance and building damage. Human annoyance occurs when construction vibration rises significantly above the threshold of human perception for extended periods of time. Building damage can be cosmetic or structural. Ordinary buildings that are not particularly fragile would not experience cosmetic damage (e.g., plaster cracks) at distances beyond 30 feet. This distance can

vary substantially depending on soil composition and underground geological layer between vibration source and receiver.

Table 14-6: Typical Vibration Levels for Construction Equipment, lists vibration levels at 25 feet for typical construction equipment. Groundborne vibration generated by construction equipment spreads through the ground and diminishes in magnitude with increases in distance. As indicated in Table 14-6: Typical Vibration Levels for Construction Equipment, based on FTA data, vibration velocities from typical heavy construction equipment operations that would be used during project construction range from 0.002 to 0.160 in/sec PPV at 30 feet from the source of activity. These values are below FTA thresholds. The nearest sensitive receptors are the single-family residences approximately 30 feet west of the project site however the majority of construction would be at least 150 feet from the nearest sensitive receptors. At 150 feet the maximum PPV would be 0.014 in/sec.

**Table 14-6: Typical Vibration Levels for Construction Equipment**

| Equipment | Approximate peak particle velocity at 25 feet (inches/second) | Approximate peak particle velocity at 30 feet (inches/second) | Approximate peak particle velocity at 150 feet (inches/second) |
|---|---|---|---|
| Vibratory Roller | 0.2100 | 0.1598 | 0.0143 |
| Large bulldozer | 0.0890 | 0.0677 | 0.0061 |
| Loaded trucks | 0.0760 | 0.0578 | 0.0052 |
| Jack Hammer | 0.0350 | 0.0266 | 0.0024 |
| Small Bulldozer | 0.0030 | 0.0023 | 0.0002 |

Notes:
1. Federal Transit Administration, *Transit Noise and Vibration Impact Assessment Guidelines*, May 2006. Table 12-2.
2. Calculated using the following formula: $PPV_{equip} = PPV_{ref} \times (25/D)^{1.5}$ where:
   PPV (equip) = the peak particle velocity in inch per second of the equipment adjusted for the distance
   PPV (ref) = the reference vibration level in inch per second from Table 12-2 of the FTA *Transit Noise and Vibration Impact Assessment Guidelines*
   D = the distance from the equipment to the receiver

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

As shown in Table 14-6: Typical Vibration Levels for Construction Equipment, the highest vibration levels are achieved with the vibratory roller operations. Groundborne vibration decreases rapidly with distance. Based on the FTA data, vibration velocities from typical heavy construction equipment operation that would be used during project construction would not exceed the FTA's 0.20 in/sec PPV significance threshold vibrations. In general, construction activities would occur throughout the project site and would not be concentrated at the point

closest to the nearest residential structure. Therefore, vibration impacts would be less than significant and no mitigation is required.

### Impact N-3: Result in a substantial permanent increase in ambient noise levels.

Implementation of the project would create new sources of noise in the project vicinity. The major noise sources associated with the project that would potentially impact existing and future nearby residences include the following:

- Off-site traffic noise;
- Mechanical equipment (i.e., trash compactors, air conditioners, etc.);
- Delivery trucks on the project site, and approaching and leaving the loading areas;
- Parking areas (i.e., car door slamming, car radios, engine start-up, and car pass-by); and
- Landscape maintenance activities.

As discussed above, the closest sensitive receptors are single-family residences located approximately 15 feet west of the project site. The land use compatibility standard for residential areas is 60 dBA Ldn for normally acceptable conditions (Table 14-4: Land Use Compatibility Guidelines for Community Noise in Scotts Valley).

#### Traffic Noise

Implementation of the project would generate increased traffic volumes along study roadway segments. The project is expected to generate 1,240 net average daily trips, which would result in noise increases on project area roadways. In general, a traffic noise increase of less than 3 dBA is barely perceptible to people, while a 5-dBA increase is readily noticeable (Caltrans, 2013). Generally, traffic volumes on project area roadways would have to approximately double for the resulting traffic noise levels to increase by 3 dBA. Therefore, permanent increases in ambient noise levels of less than 3 dBA are considered to be less than significant.

As shown in Table 14-7: Existing and Project Traffic Noise, the existing traffic-generated noise level on project area roadways is between 55.0 dBA Ldn and 65.1 dBA Ldn at 100 feet from the centerline. As previously described, Ldn is 24-hour average noise level with a 10 dBA "weighting" added to noise during the hours of 10:00 PM to 7:00 AM to account for noise sensitivity in the evening and nighttime, respectively.

Traffic noise levels for roadways primarily affected by the project were calculated using the FHWA's Highway Noise Prediction Model (FHWA-RD-77-108). Traffic noise modeling was conducted for conditions with and without the project, based on traffic volumes (Kimley-Horn, 2020). As shown in Table 14-7: Existing and Project Traffic Noise, the project would have an increase of less than 1.0 dBA for all the roadway segments analyzed. As an increase under 3 dBA is barely perceptible to people, the project would not have a significant impact on existing traffic noise levels.

**Table 14-7: Existing and Project Traffic Noise**

| Roadway Segment | Existing Conditions (Existing Development) | | With Project | | Project Change from Existing Conditions | Significant Impact? |
|---|---|---|---|---|---|---|
| | ADT | dBA Ldn[1] | ADT[2] | dBA Ldn[1] | | |
| **Lockewood Lane** | | | | | | |
| Graham Hill Road to Estrella Drive | 4,000 | 55.4 | 4,060 | 55.4 | 0.0 | **No** |
| Estrella Drive to Project Driveway | 3,760 | 55.1 | 3,815 | 55.2 | 0.1 | **No** |
| Project Driveway to Mt. Hermon Road | 4,620 | 56.0 | 4,890 | 56.2 | 0.2 | **No** |
| **Mt. Hermon Road** | | | | | | |
| Lockewood Lane to CVS Driveway | 23,230 | 63.9 | 24,335 | 64.1 | 0.2 | **No** |
| CVS Driveway to Kings Village Road | 26,350 | 64.5 | 28,030 | 64.7 | 0.2 | **No** |
| Kings Village Road to Spring Lakes Drive | 26,170 | 64.4 | 27,770 | 64.6 | 0.2 | **No** |
| Spring Lakes Drive to Scotts Valley Drive | 30,790 | 65.1 | 32,310 | 65.3 | 0.2 | **No** |
| Scotts Valley Drive to La Madrona Drive | 29,140 | 64.8 | 30,270 | 65.0 | 0.2 | **No** |

ADT = average daily trips; dBA = A-weighted decibels; Ldn = day-night noise level
Notes:
1. Traffic noise levels are at 100 feet from the roadway centerline.
Source: Based on traffic data prepared by Kimley-Horn, 2022. Refer to Appendix H: transportation Modeling Data.

Implementation of the project would generate increased traffic volumes during some peak periods. As shown in Table 16-2: Project Trip Generation, the project would generate 1,974 net new daily trips, with 186 net new trips (69 in and 117 out) occurring during the AM peak hour and 188 net new trips (116 in and 72 out) occurring during the PM peak hour.

Traffic volumes on area streets would have to approximately double for the resulting traffic noise levels to increase by three dBA. The project would not result in a doubling of traffic on any City street analyzed. Moreover, project traffic would traverse and disperse over City roadways, where existing ambient noise levels are high. Therefore, permanent increases in traffic noise would be less than significant and no mitigation is required.

### Stationary Noise

Implementation of the project would create new sources of noise in the project vicinity from residential sources, mechanical equipment, parking lot noise, and landscape maintenance.

#### Residential Areas

Noise that is typical of residential areas includes group conversations, pet noise, vehicle noise (see discussion below) and general maintenance activities. Noise from residential stationary sources would primarily occur during the "daytime" activity hours of 7:00 AM to 7:00 PM Furthermore, the residences would be required to comply with the noise standards set forth in the City's General Plan and Municipal Code. Per General Plan Policies LP-38, NA-457, NO-441,

and NA-444 land uses which include residential uses should not be allowed in areas with excessive noise.

### Mechanical Equipment

The project would generate stationary-source noise associated with heating, ventilation, and air conditioning (HVAC) units. Mechanical equipment noise levels typically average between 50 and 60 dBA $L_{eq}$ at 50 feet. The closest that the proposed mechanical equipment would be located to sensitive receptors would be approximately 60 feet. At 60 feet the noise level from the mechanical equipment would be approximately 58 dBA, which would be below the City's 60 dBA standard. Therefore, impacts from mechanical equipment would be less than significant and no mitigation is required.

### Parking Areas

Traffic associated with parking areas is typically not of sufficient volume to exceed community noise standards, which are based on a time-averaged scale such as the CNEL scale. However, the instantaneous maximum sound levels generated by a car door slamming, engine starting up and car pass-bys may be an annoyance to adjacent noise-sensitive receptors. Parking lot noise can also be considered a "stationary" noise source.

The instantaneous maximum sound levels generated by a car door slamming, engine starting up, and car pass-bys range from 60 to 63 dBA at 50 feet and may be an annoyance to noise-sensitive receptors. Conversations in parking areas may also be an annoyance to sensitive receptors. Sound levels of speech typically range from 33 dBA at 48 feet for normal speech to 50 dBA at 50 feet for very loud speech. It should be noted that parking lot noise are instantaneous noise levels compared to noise standards in the DNL scale, which are averaged over time. As a result, actual noise levels over time resulting from parking lot activities would be far lower.

The project includes parking spaces associated with the residential buildings as well as a parking lot for the commercial uses. The closest that the parking lot would be located to the sensitive receptors is approximately 170 feet south. At 170 feet, noise levels generated from the parking lot would be 52 dBA. Parking lot noise would be partially masked by the background noise from traffic along Lockewood Lane and Mt. Hermon Road. Therefore, noise associated with parking lot activities is not anticipated to exceed the City's Noise Standards or the California Land use Compatibility Standards during operation. Therefore, noise impacts from parking lots would be less than significant and no mitigation is required.

### Landscape Maintenance Activities

Development and operation of the project includes new landscaping that would require periodic maintenance. Noise generated by a gasoline-powered lawnmower is estimated to be approximately 70 dBA at a distance of five feet. Maintenance activities would operate during daytime hours for brief periods of time as allowed by the City Municipal Code and would not permanently increase ambient noise levels in the project vicinity and would be consistent with activities that currently occur at the surrounding uses. Therefore, with adherence to the City's

Municipal Code, impacts associated with landscape maintenance would be less than significant and no mitigation is required.

Based on the analysis above, the project would not have a noticeable effect on ambient noise levels in the project site vicinity, and impacts would be less than significant and no mitigation is required.

### 14.5.4 Cumulative Impacts

The geographic area for the analysis of cumulative noise impacts is the City of Scotts Valley.

Impact N-4: Contribute to cumulatively considerable noise impacts.

Cumulative development would result in construction-related and operational noise increases in the project site vicinity. However, based on the noise analysis above, impacts from the project's noise would be less than significant with mitigation. Based on the fact that noise dissipates as it travels away from its source, noise impacts from on-site activities and other stationary sources would be limited to the project site and vicinity. Thus, cumulative operational noise impacts from related projects, in conjunction with project-specific noise impacts, would not be cumulatively significant and no mitigation is required.

#### Cumulative Construction Noise

The project's construction activities, when properly mitigated, would not result in a substantial temporary increase in ambient noise levels. The project construction would comply with Section 17.46.160, which states that all construction activity shall be limited to the hours between 8:00 AM and 6:00 PM, Monday through Friday, and 9:00 AM through 5:00 PM on Saturday. No construction activity is allowed on Sunday. Mitigation Measure N-1.1 Construction Noise Reduction would reduce the temporary noise impacts associated with construction of the project. MM N-1.1 includes maintaining good condition of construction equipment and including mufflers, limiting idling to less than five minutes, locating stationary equipment as far from residences as possible, and assigning a noise disturbance coordinator. With implementation of MM N-1.1, construction noise impacts would be less than significant.

Construction activities at other planned and approved projects would be required to take place during daytime hours, and the City and project applicants would be required to evaluate construction noise impacts and implement mitigation, if necessary, to minimize noise impacts. Each project would be required to comply with the applicable City of Scotts Valley Municipal Code limitations on allowable hours of construction. Therefore, project construction would not contribute to cumulative impacts and impacts in this regard are not cumulatively considerable.

#### Cumulative Operational Noise

Cumulative noise impacts describe how much noise levels are projected to increase over existing conditions with the development of the project and other foreseeable projects. Cumulative noise impacts would occur primarily as a result of increased traffic on local

roadways due to buildout of the project and other projects in the vicinity. However, noise from generators and other stationary sources could also generate cumulative noise levels.

### Stationary Noise

As discussed above, impacts from the project's operations would be less than significant. Due to site distance, intervening land uses, and the fact that noise dissipates as it travels away from its source, noise impacts from on-site activities and other stationary sources would be limited to the project site and vicinity. No known past, present, or reasonably foreseeable projects would compound or increase the operational noise levels generated by the project. Thus, cumulative operational noise impacts from related projects, in conjunction with project-specific noise impacts, would not be cumulatively significant.

### Traffic Noise

A project's contribution to a cumulative traffic noise increase would be considered significant when the combined effect exceeds perception level (i.e., auditory level increase) threshold. Cumulative increases in traffic noise levels were estimated by comparing the Existing Plus Project and Cumulative scenarios to existing conditions. The traffic analysis considers cumulative traffic from future growth assumed in the traffic mode, as well as cumulative projects identified by the City of Scotts Valley.

The following criteria is used to evaluate the combined effect of the cumulative noise increase.

Combined Effect. The cumulative with project noise level ("Cumulative With Project") would cause a significant cumulative impact if a 3.0 dB increase over "Existing" conditions occurs and the resulting noise level exceeds the applicable exterior standard at a sensitive use. Although there may be a significant noise increase due to the project in combination with other related projects (combined effects), it must also be demonstrated that the project has an incremental effect. In other words, a significant portion of the noise increase must be due to the project.

The following criteria have been used to evaluate the incremental effect of the cumulative noise increase.

Incremental Effects. The "Cumulative With Project" causes a 1.0 dBA increase in noise over the "Cumulative Without Project" noise level.

A significant impact would result only if both the combined and incremental effects criteria have been exceeded. Noise by definition is a localized phenomenon and reduces as distance from the source increases. Consequently, only the project and growth due to occur in the general area would contribute to cumulative noise impacts. Table 14-8: Cumulative Plus Project Conditions Predicted Traffic Noise Levels, identifies the traffic noise effects along roadway

segments in the vicinity of the project site for "Existing," "Cumulative Without Project," and "Cumulative With Project," conditions, including incremental and net cumulative impacts.

First, it must be determined whether the "Future With Project" increase above existing conditions (Combined Effects) is exceeded. As shown in the Table 14-8: Cumulative Plus Project Conditions Predicted Traffic Noise Levels, the project would not exceed the Combined Effects criterion for any roadway segments analyzed. Next, under the Incremental Effects criteria, cumulative noise impacts are defined by determining if the forecast ambient ("Future Without Project") noise level is increased by one (1) dB or more. As shown in the Table 14-8: Cumulative Plus Project Conditions Predicted Traffic Noise Levels, the project would not exceed the Combined Effects criterion for any roadway segments analyzed.

**Table 14-8: Cumulative Plus Project Conditions Predicted Traffic Noise Levels**

| Roadway Segment | Existing (dBA Ldn) | Cumulative Without Project (dBA Ldn) | Cumulative With Project (dBA Ldn) | Combined Effects: dBA Difference: Existing and Cumulative With Project | Incremental Effects: dBA Difference: Cumulative Without and With Project | Cumulatively Significant Impact? |
|---|---|---|---|---|---|---|
| **Lockewood Lane** | | | | | | |
| Lockewood Lane from Graham Hill Road to Estrella Drive | 55.4 | 57.1 | 57.2 | 1.8 | 0.1 | No |
| Lockewood Lane from Estrella Drive to Project Driveway | 55.1 | 57.0 | 57.1 | 2.0 | 0.1 | No |
| Lockewood Lane from Project Driveway to Mt. Hermon Road | 56.0 | 57.6 | 57.8 | 1.8 | 0.2 | No |
| **Mt. Hermon Road** | | | | | | |
| Mt. Hermon Road from Lockewood Lane to CVS Driveway | 63.9 | 64.8 | 64.9 | 1.0 | 0.1 | No |
| Mt. Hermon Road from CVS Driveway to Kings Village Road | 64.5 | 65.8 | 66.0 | 1.5 | 0.2 | No |
| Mt. Hermon Road from Kings Village Road to Spring Lakes Drive | 64.4 | 65.9 | 66.1 | 1.7 | 0.2 | No |

| Roadway Segment | Existing (dBA Ldn) | Cumulative Without Project (dBA Ldn) | Cumulative With Project (dBA Ldn) | Combined Effects: dBA Difference: Existing and Cumulative With Project | Incremental Effects: dBA Difference: Cumulative Without and With Project | Cumulatively Significant Impact? |
|---|---|---|---|---|---|---|
| Mt. Hermon Road from Spring Lakes Drive to Scotts Valley Drive | 65.1 | 66.5 | 66.7 | 1.5 | 0.2 | No |
| Mt. Hermon Road from Scotts Valley Drive to La Madrona Drive | 64.8 | 65.9 | 66.1 | 1.2 | 0.2 | No |

ADT = average daily trips; dBA = A-weighted decibels; Ldn = day-night noise level
Source: Based on traffic data prepared by Kimley-Horn, 2022. Refer to Appendix H: Transportation Modeling Data.

Therefore, the project's cumulative noise contribution would be less than significant. Based on the significance criteria set forth in this EIR, no roadway segments would result in significant impacts because they would not exceed the City's threshold for noise at nearby sensitive receptors. The project would not result in long-term mobile noise impacts based on project-generated traffic as well as cumulative and incremental noise levels. Therefore, the project, in combination with cumulative background traffic noise levels, would result in a less than significant cumulative impact. The project's contribution to noise levels would not be cumulatively considerable.

### 14.5.5 Level of Significance after Mitigation

Table 14-9: Summary of Impacts and Mitigation Measures – Noise & Vibration summarizes the environmental impacts, significance determinations, and mitigation measures for the project with regard to noise.

**Table 14-9: Summary of Impacts and Mitigation Measures – Noise & Vibration**

| Impact | Impact Significance | Mitigation |
|---|---|---|
| Impact N-1: Cause a temporary or periodic increase in ambient noise levels during construction that would substantially disturb sensitive receptors. | Less than Significant with Mitigation | MM N-1.1: Construction Noise Reduction |
| Impact N-2: Temporarily generate excessive groundborne vibration or groundborne noise. | Less than Significant | None required |
| Impact N-3: Result in a substantial permanent increase in ambient noise levels | Less than Significant | None required |
| Impact N-4: Contribute to cumulatively considerable noise impacts. | Less than Significant with Mitigation | MM N-1.1: Construction Noise Reduction |

## 14.6 References

California Department of Transportation (Caltrans). 2009. Technical Noise Supplement. pp. 248 – 249. Available at: http://www.dot.ca.gov/hq/env/noise/pub/tens_complete.pdf.

California Department of Transportation (Caltrans). 2013. Technical Noise Supplemental to the Traffic Noise Analysis Protocol. Available at: http://www.dot.ca.gov/hq/env/noise/pub/TeNS_Sept_2013B.pdf.

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# 15 Public Services, Utilities & Service Systems

## 15.1 Introduction

This section describes effects on public services, utilities, and service systems that would be caused by implementation of the project. The discussion addresses existing environmental conditions in the affected area, identifies and analyzes environmental impacts, and recommends measures to reduce or avoid adverse impacts anticipated from project construction and operation. In addition, existing laws and regulations relevant to public services, utilities, and service systems are described. In some cases, compliance with these existing laws and regulations would serve to reduce or avoid certain impacts that might otherwise occur with the implementation of the project.

Information used to prepare this section came from the following resources:

- California Department of Education. 2022. Data & Statistics
- CalRecycle. 2022a. Monterey Peninsula Landfill
- City of Scotts Valley, *Scotts Valley General Plan*, November 2023.
- Ruggeri-Jensen-Azar & Associates (RJA) 2022. *Stormwater Control Plan for Valley Gardens*, prepared for Robson Homes.
- San Lorenzo Valley Water District and Scotts Valley Water District, *2020 Urban Water Management Plan* for SLVWS and SVWD (Montgomery & Associates and WSC), June 2021.
- Scotts Valley Water District, *Groundwater Management Plan Annual Report - Water Year 2020,* Montgomery & Associates, April 2021.

## 15.2 Scoping Issues Addressed

During the scoping period for the project, no written comments by agencies and the public regarding public services or utilities and service systems were received.

## 15.3 Environmental Setting

This section presents information on public services, utilities, and service systems in the project area. Physical impacts to public services, utilities, and service systems are usually associated with population in-migration and growth in an area, which increase the demand for a particular service, leading to the need for expanded or new facilities.

### 15.3.1 Public Services

#### Police Protection

The Scotts Valley Police Department (SVPD) is headquartered at One Civic Drive in the City of Scotts Valley, approximately one mile east of the project site. The major goals of SVPD are to

reduce crime through prevention, detection and apprehension; to provide the orderly and safe movement of vehicular traffic through law enforcement, to provide accident prevention and accident investigation; to ensure public safety through regulation and control of hazardous conditions; to recover and return of lost and stolen property and; to provide non-enforcement services through programs reflecting community needs and desires.

SVPD has 16 sworn officers and eight civilian employees. In 2022, the SVPD's Emergency Dispatch Center handled more than 4,000 emergency calls. The average response time to emergency calls was less than three minutes (SVPD, 2022).

### Fire Protection

The Scotts Valley Fire District (SVFD) provides emergency response to all fires, medical calls and vehicle accidents for both the City of Scotts Valley and the surrounding unincorporated areas. SVFD is an autonomous special district, with all funding generated from the area's property taxes. SVFD serves approximately 20,000 people in a 22-square-mile area. The City of Scotts Valley lies within the district boundaries and represents 4.5 square miles of the total area served and approximately 60 percent of the SVFD's service area population.

The SVFD boundaries run from the Scotts Valley city limits to the south to just beyond Laurel Road along upper Highway 17 to the north, and from east of Highway 17 to west of Lockhart Gulch Road. SVFD has a mutual aid agreement with numerous regional fire districts, including the Santa Cruz City Fire Department, Central Fire Protection District, Aptos/La Selva Fire Protection District, Felton Fire Protection District, Zayante Fire Department, and Cal Fire, the State's firefighting agency.

SVFD operates two fire stations, both within the Scotts Valley city limits. Station One (headquarters), is located at 7 Erba Lane, and Station Two is located on Glenwood Drive. The district currently operates two engines, a wildland engine, a 2,500-gallon water tender, and a hazardous materials response truck, along with other support equipment. The district has 28 full-time employees, one part time employee, the administrative staff, and seven paid-call firefighters (SVFD, 2022).

SVFD responds to approximately 2,100 district wide calls annually (LAFCo of Santa Cruz County, 2021). Between 2015 and 2022, the majority (approximately 59 percent) of calls were medical emergency calls. The SVFD's response time goal is five minutes or less of notification. Between 2015 and 2022 the average response time was approximately five minutes. Response time is measures from the time a call is received in the Fire Dispatch Center until the time the first unit arrives on the scene of an emergency.

### Schools

The Scotts Valley Unified School District (SVUSD) operates the public school system within City of Scotts Valley. SVUSD administers two elementary schools (Vine Hill Elementary and Brook Knoll Elementary), Scotts Valley Middle School, and Scotts Valley High School.

According to the CA Department of Education, the SVUSD has a current (2022-2023) enrollment of 2,644 students, which has been generally consistent over the past five years. [10] Additionally, there are students that reside in the City of Scotts Valley who attend private schools. These include Baymonte Christian School, Child's Reflection, Montessori Scotts Valley, and Monterey Coast Preparatory School.

#### Recreation

The City of Scotts Valley Parks and Recreation Department provides parks, recreation facilities, and recreation programs for the community. The Parks and Recreation Department maintains seven parks and recreational facilities in the City. Amenities available at these facilities include basketball courts, play areas, hiking trails, baseball fields, BBQ areas, and a community pool (City of Scotts Valley Parks and Recreation Department, 2002). The closest park to the project site is Skypark located at 361 Kings Village Road, on the north side of Mt. Hermon Road across from the project site. The next closest facility to the project site is Hocus Pocus Park located at 34 Silver Birch Lane, approximately 0.2 mile southeast of the project site.

### 15.3.2 Utilities and Service Systems

#### Water

##### Potable Water

As described in Chapter 11: Hydrology & Water Quality, potable water for the project site is located within the San Lorenzo Valley Water District (SLVWD), which serves a combined area of approximately 98 square miles, including a small southern area within the Scotts Valley city limits, which includes the project site.

##### Recycled Water

SVWD, in coordination with the City of Scotts Valley Water Reclamation Facility, produces and distributes recycled water that is suitable for non-potable uses like landscape irrigation. Recycled water deliveries have gradually increased since the program started in WY 2002. In WY2020 SVWD supplied 178 acre-feet of recycled water to 71 connections. The two largest SVWD recycled water customers are the City and the school district, which comprise approximately 33% of the total recycled consumption (Montgomery & Associates, 2021b). The SVWD currently requires the use of reclaimed water for irrigation in any development near a reclaimed water distribution main which extends along portions of Mt. Herman Road and Scotts Valley Drive.

[10] https://www.ed-data.org/district/Santa-Cruz/Scotts-Valley-Unified#:~:text=(831)%20438%2D1820,CDS%20Code%2044%2D75432%2D0000000

## Groundwater

As described in Chapter 11: Hydrology & Water Quality, a significant portion SLVWD's water supply is derived from groundwater from the Santa Margarita Groundwater Basin, the boundary of which is defined by the California Department of Water Resources (DWR). The Santa Margarita Groundwater Basin (SMGB or the Basin) covers more than 30 square miles in the Santa Cruz Mountains. The Basin forms a roughly triangular area that extends from Scotts Valley in the east, to Boulder Creek in the northwest, to Felton in the southwest (see Figure 12-2: Groundwater Basins).

## Vulnerability to Water Shortages

### *Aquifer Storage Analysis*

Aquifer storage is a measure of the volume of groundwater present in the aquifer. The change in aquifer storage measures the increase or decrease in the volume of groundwater in the aquifer resulting from changes in groundwater levels primarily in response to variations in annual precipitation and groundwater pumping. The SMGB groundwater model and aquifer storage analysis was updated in 2020 and 2021 as part of developing the Santa Margarita Groundwater Agency 's (SMGWA) Groundwater Sustainability Plan (GSP). The model is calibrated from WY1985 through WY2020 and now encompasses the entire SMGB.

Table 15 1: Average Annual Change in Aquifer Storage (AFY), provides a summary of the long-term change in aquifer storage per aquifer as calculated by the updated SMGB groundwater model. Groundwater storage in the SMGB is responsive to both changes in climate and groundwater use. Groundwater model results show a decline in storage during the drought years of WY2012 through WY2015. Since the end of the WY2015/2016 drought, cumulative change in storage in the SMGB has increased slightly, and then decreased by 890 AFY in WY 2020. It is expected that projects and management actions planned as part of the upcoming GSP will help recover lowered groundwater levels in the south Scotts Valley area and increase stored groundwater in the SMGB.

**Table 15-1: Average Annual Change in Aquifer Storage (AFY)**

| Aquifer | WY 1985 – WY 1992 | WY 2005 – WY 2011 | WY 2012 – WY2015 | WY 2016 | WY 2017 | WY 2018 | WY 2019 | WY 2020 |
|---|---|---|---|---|---|---|---|---|
| Santa Margarita | -340 | 20 | -310 | 360 | 950 | -620 | 510 | -360 |
| Monterey | -290 | -30 | -90 | 80 | 280 | -80 | 210 | 0 |
| Lompico | -870 | -320 | -600 | 110 | 780 | -450 | 590 | -270 |
| Butano | -280 | 20 | -210 | 250 | 780 | -370 | 330 | -260 |
| **Total** | **-1,780** | **-310** | **-1,210** | **790** | **2,780** | **-1,520** | **1,650** | **-890** |

Source: Montgomery & Associates, 2021a.

*Global Climate Change*

Increasing attention has been paid to the issue of global climate change and its effects on water resources and supplies. Potential impacts and consequences of climate change on California's water resources include reduction of the State's average annual snowpack; changes in the timing, intensity, location, amount, form and variability of precipitation; long-term changes in watershed vegetation that can change intensity and timing of runoff; sea level rise; increased water temperatures that can affect water quality; and changes in evapotranspiration rates that can result in increased water demands.

Studies prepared by the State of California indicate that climate change may seriously affect the State's water resources as a result of temperature increases, changes in timing and amount of precipitation, and sea level rise that could adversely affect coastal areas. Simulations conducted by the State of California predict drier conditions in the future, although at the same time there is continued risk from intense rainfall events that can generate more frequent and/or more extensive runoff; some recent reports indicate that warming temperatures, combined with changes in rainfall and runoff patterns, will exacerbate the frequency and intensity of droughts. Although average annual precipitation may not change, more intense wet and dry periods also are anticipated. Regions that rely heavily upon surface water could be particularly affected as runoff becomes more variable.

### Wastewater

Sanitary sewer service in the City is provided by the City of Scotts Valley Department of Public Works – Wastewater Division. The collection system comprises 40 miles of pipeline, as well as seven lift stations (Montgomery & Associates, 2021b).All wastewater is conveyed to and treated at the Scotts Valley Water Reclamation Facility (SVWRF). This facility is owned and operated by the City and provides wastewater treatment services as well as recycled water for landscape irrigation and other uses. The SVWRF's current capacity is 1.5 million gallons per day (mgd) for wastewater treatment with a design wet weather treatment capacity of three mgd (with a five mgd peak flow which can only be handled for a very short period of time ) and one mgd for recycled water processing (Montgomery & Associates, 2021b).

### Stormwater

The rate and amount of stormwater surface runoff is determined by multiple factors, including the amount and intensity of precipitation, amount of other imported water that enters a watershed, and amount of precipitation and imported water that infiltrates to the groundwater. Infiltration is determined by several factors, including soil type, soil moisture, rainfall intensity, the amount of impervious surfaces within a watershed, and topography. The rate of surface runoff is largely determined by topography and the intensity of rainfall over a given period of time.

In July 2013, the Central Coast Regional Water Quality Control Board (CCRWQCB) adopted Order R3-2013-0032, which requires new and more stringent Post-Construction Requirements (PCRs) for proposed development projects. The PCRs mandate that development projects use

Low Impact Development (LID) features and facilities to detain, retain, and treat site runoff. LID incorporates and conserves on-site natural features, together with constructed hydrologic controls to more closely mimic pre-development hydrology and watershed processes. Projects that receive their first discretionary approval after March 6, 2014, are subject to the PCRs if they create or replace 2,500 sf or more of impervious area on a site.

The PCR tiers range from Tier 1 to Tier 4, with requirements strengthened for each additional tier. The largest projects considered by the guidelines, Tier 4 projects, have the most stringent requirements. For these projects which create or replace 22,500 sf or more of impervious surface, post-development peak flows discharged from the project site must not exceed pre-project peak flows for the two-year through 10-year storm events. This requirement is in addition to other requirements for Tier 1-3 projects which also apply to Tier 4 projects.

### Electricity

Electricity in Scotts Valley is provided by Pacific Gas & Electric (PG&E). In 2020 (the most recent year for which data is provided), the electricity mix comprised 16 percent natural gas, 43 percent nuclear, 10 percent large hydroelectric, and 31 percent renewables (PG&E, 2022a).

### Natural Gas

PG&E operates one of the largest natural gas distribution networks in the country, including approximately 42,000 miles of natural gas distribution pipelines and approximately 6,700 miles of natural gas transmission pipelines (PG&E, 2022b). A transmission gas pipeline traverses the southern portion of Scotts Valley and small-diameter pipelines serve the City (PG&E, 2022c).

### Telecommunications

Telecommunication services in Scotts Valley, which includes cable television and internet services, are provided by AT&T, Xfinity, Earthlink, and Sonic.

### Solid Waste

GreenWaste Recovery, a private contractor, provides weekly collection of garbage, recyclable materials, and yard trimmings for residents and businesses in the City of Scotts Valley. Solid waste (garbage and yard trimmings) is transported to the Monterey Regional Waste Management District (MRWMD) and eventually disposed of in the Monterey Peninsula Landfill while recyclables are delivered to the GreenWaste transfer facility in Watsonville and eventually taken to the GreenWaste Materials recovery campus in San José (GreenWaste, 2022). The Monterey Peninsula Landfill, located in Monterey County, is permitted until 2107 and has a maximum capacity of 49,700,000 cubic yards of solid waste, with approximately 48,560,000 cubic yards of remaining capacity. The Monterey Peninsula Landfill is permitted to receive 3,500 tons of solid waste per day (CalRecycle, 2022).

## 15.4 Applicable Regulations, Plans, and Standards

### 15.4.1 Federal

#### Wastewater

Clean Water Act

The Federal Water Pollution Control Act of 1972, more commonly known as the Clean Water Act (CWA), regulates the discharge of pollutants into watersheds throughout the U. S. Under the CWA, the EPA implements pollution control programs and sets wastewater treatment standards.

National Pollutant Discharge Elimination System

The National Pollutant Discharge Elimination System (NPDES) permit program was established pursuant to the CWA to regulate municipal and industrial discharges to surface waters of the United States. Federal NPDES permit regulations have been established for broad categories of discharges, including point-source municipal waste discharges and nonpoint-source stormwater runoff. NPDES permits generally identify effluent and receiving water limits on allowable concentrations and/or mass emissions of pollutants contained in the discharge; prohibitions on discharges not specifically allowed under the permit; and provisions that describe required actions by the discharger, including industrial pretreatment, pollution prevention, self-monitoring, and other activities.

Wastewater discharge is regulated under the NPDES permit program for direct discharges into receiving waters and by the National Pretreatment Program for indirect discharges to a sewage treatment plant.

In California, the federal requirements are administered by the State Water Resources Control Board (SWRCB), and individual NPDES permits are issued by the California Regional Water Quality Control Boards (RWQCBs).

### 15.4.2 State

#### Police Services

All law enforcement agencies within California are organized and operate in accordance with the applicable provisions of the California Penal Code. This code sets forth the authority, rules of conduct, and training for police officers.

#### Fire Protection

Fire hazards are addressed mainly through the application of the State Fire Code and the California Building Code (CBC). The Fire Code addresses access, including roads, and vegetation removal in high fire hazard areas. The UBC requires development in high fire hazard areas to show proof of nearby water sources and adequate fire flows.

### Schools

Senate Bill (SB) 50 (1998), which is funded by Proposition 1A, limits the power of cities and counties to require mitigation of developers as a condition of approving new development and provides instead for a standardized fee. SB 50 generally provides for a 50/50 state and local school facilities match. SB 50 also provides for three levels of statutory impact fees. The application level depends on whether state funding is available; whether the school district is eligible for state funding; and whether the school district meets certain additional criteria involving bonding capacity, year-round schools, and the percentage of moveable classrooms in use.

California Government Code sections 65995–65998 set forth provisions to implement SB 50. Specifically, in accordance with Section 65995(h), the payment of statutory fees is "deemed to be full and complete mitigation of the impacts of any legislative or adjudicative act, or both, involving, but not limited to, the planning, use, or development of real property, or any change in governmental organization or reorganization…on the provision of adequate school facilities." The school district is responsible for implementing the specific methods for mitigating school impacts under the Government Code.

Pursuant to Government Code section 65995(i), "A state or local agency may not deny or refuse to approve a legislative or adjudicative act, or both, involving, but not limited to, the planning, use, or development of real property, or any change in governmental organization or reorganization as defined in Section 56021 or 56073 on the basis of a person's refusal to provide school facilities mitigation that exceeds the amounts authorized pursuant to this section or pursuant to Section 65995.5 or 65995.7, as applicable."

California Education Code Section 17620(a)(1) states that the governing board of any school district is authorized to levy a fee, charge, dedication, or other requirement against any construction within the boundaries of the district, for the purpose of funding the construction or reconstruction of school facilities.

### Water Supply

#### Senate Bill 610

Senate Bill (SB) 610 amended the Public Resources and Water Codes as they pertain to consultation with water supply agencies and water supply assessments (WSA). SB 610 requires water supply assessments (WSAs) for "projects" as defined by Water Code Section 10912 which are subject to CEQA as a 500-unit or more residential development, or a project that would increase the number of the public water system's existing service connections by 10%.

Because the project does not meet the definition of a "project" as specified in the Water Code, the preparation of a WSA in compliance with SB 610 is not required.

### Senate Bill 221

Whereas SB 610 requires a written assessment of water supply availability, SB 221 requires lead agencies to obtain an affirmative written verification of sufficient water supply prior to approval of certain specified subdivision projects. For this purpose, water suppliers may rely on an Urban Water Management Plan (if the project is accounted for within the UWMP), a Water Supply Assessment prepared for the project, or other acceptable information that constitutes "substantial evidence."

"Sufficient water supply" is defined in SB 221 as the total water supplies available during normal, single-dry and multiple-dry water years within the 20-year (or greater) projection period that are available to meet the projected demand associated with a project, in addition to existing and planned future uses.

### The 2014 Sustainable Groundwater Management Act

The Sustainable Groundwater Management Act of 2014 (SGMA), enacted in October 2014, applies to all groundwater basins in the state. Pursuant to SGMA, local agencies had until June 30, 2017, to form a groundwater sustainability agency. To comply with this act, three public agencies (SVWD, SLVD and Santa Cruz County) formed the Santa Margarita Groundwater Agency through a joint powers agreement in June 2017.

### Executive Order B-29-15

On April 1, 2015, Governor Brown signed an executive order that recognized the possibility of the ongoing drought extending into 2016 and beyond. The order includes a series of statewide measures intended to reduce overall water demand, including updating the State Model Water Efficient Landscape Ordinance, replacing 50 million square feet of lawns with artificial turf or drought-tolerant landscapes, restricting landscape irrigation, revising water rate structures to encourage conservation, and requiring agricultural suppliers to prepare drought management plans, among several other measures.

Under the order, the SWRCB and California Public Utilities Commission (PUC) must impose restrictions to achieve a statewide 25 percent reduction in potable urban water usage through February 2016, as compared to the amount of water used in 2013. Water suppliers with higher per capita use shall achieve proportionally greater reductions than suppliers with lower per capita use. In April 2017, the SWRCB rescinded the water supply "stress test" requirements and remaining mandatory conservation standards.

## Wastewater

### Central Coast Regional Water Quality Control Board

The Central Coast RWQCB is the local division of the SWRCB that has oversight authority over the project. SWRCB is a State department that provides a definitive program of actions designed to preserve and enhance water quality and to protect beneficial uses of water in California. NPDES permits allow RWQCB to collect information on where the waste is disposed,

what type of waste is being disposed, and what entity is disposing of the waste. RWQCB is also charged with conducting inspections of permitted discharges and monitoring permit compliance.

### Solid Waste

#### California Integrated Waste Management Act

California's Integrated Waste Management Act of 1989 (AB 939) requires that cities and counties divert 50 percent of all solid waste from landfills as of January 1, 2000, through source reduction, recycling, and composting. AB 939 also establishes a goal for all California counties to provide at least 15 years of ongoing landfill capacity.

To help achieve this goal, the Act requires that each city and county prepare a Source Reduction and Recycling Element to be submitted to the Department of Resources Recycling and Recovery (CalRecycle), a department within the California Natural Resources Agency, which administers programs formerly managed by the State's Integrated Waste Management Board and Division of Recycling.

As part of CalRecycle's Zero Waste Campaign, regulations affect what common household items can be placed in the trash. Household materials—including fluorescent lamps and tubes, batteries, electronic devices and thermostats—that contain mercury are no longer permitted in the trash and must be disposed separately.

In 2007, SB 1016 amended AB 939 to establish a per capita disposal measurement system. The per capita disposal measurement system is based on a jurisdiction's reported total disposal of solid waste divided by a jurisdiction's population. CalRecycle sets a target per capita disposal rate for each jurisdiction. Each jurisdiction must submit an annual report to CalRecycle with an update of its progress in implementing diversion programs and its current per capita disposal rate.

#### SB 1383

SB 1383 regulations require that jurisdictions conduct education and outreach on organics recycling to all residents, businesses (including those that generate edible food that can be donated) haulers, solid waste facilities, and local food banks and other food recovery organizations.

In communities where a substantial number of residents speak non-English languages, jurisdictions are required to translate education and outreach materials to ensure all residents and businesses can effectively participate in organics collection services.

#### California Solid Waste Reuse and Recycling Access Act of 1991

The California Solid Waste Reuse and Recycling Access Act requires areas in development programs to be set aside for collecting and loading recyclable materials. The Act requires

CalRecycle to develop a model ordinance for adoption by any local agency relating to adequate areas for collection and loading of recyclable materials as part of development projects. Local agencies are required to adopt the model, or an ordinance of their own, governing adequate areas in development programs for collection and loading of recyclable materials.

### CALGreen Building Code

The California Green Building Standards Code (CALGreen) came into effect for all projects beginning after January 1, 2011. Section 4.408, Construction Waste Reduction Disposal and Recycling, mandates that, in the absence of a more stringent local ordinance, a minimum of 50 percent of non-hazardous construction and demolition debris must be recycled or salvaged. The Code requires the applicant to have a waste management plan for on-site sorting of construction debris.

## 15.4.3 Local

### City of Scotts Valley General Plan

The following development-related policies from the Scotts Valley General Plan (2023) would avoid or help reduce impacts associated with the project:

CSF-1.9 **New Development**. The City shall not allow existing or new private wells to service new development that requires discretionary review.

CSF-1.10 **Regulatory Compliance**. Monitor the development review process to support compliance with the water efficiency related regulations.

CSF-1.12 **Development-funded Facilities**. Where practical and appropriate, require new developments to construct on-site or off-site facilities that benefit larger group of constituents than just the ones served by the new development. In such instances, establish a process by which a future development is to reimburse the original development a proportionate share of the original cost of the facilities to the degree of the benefit received by them.

CSF-1.13 **Stormwater Management**. Require new development to maintain predevelopment runoff levels, consistent with State regulations.

CSF-1.14 **Recycled Water**. Support the expansion of recycled water infrastructure throughout Scotts Valley and require new development to connect to recycled water system if appropriate and feasible.

CSF-2.11 **Plan Review**. All new development shall be referred to the Police Department for law and Scotts Valley Fire District for plan review evaluation of crime reduction, fire, and life safety issues.

CSF-3.17 **Provision of Park Land and Facilities**. Condition new development requiring discretionary review to provide for the orderly completion of the City's comprehensive park system, including bicycle paths and hiking trails.

CSF-3.18 **Dedication of Trail Easements**. The City shall require public dedication of trail easements and bike paths in new projects located along adopted routes.

CSF-3.19 **Construction of Trails and Bike Paths**. For new development requiring discretionary review, the City may require where appropriate, the dedication and construction of trails and bike paths consistent with the General Plan policies as part of project approval.

CSF-3.24 **Recreation for New Development**. Ensure that adequate park land is provided in conjunction with new residential development, concurrent with the City's parks, recreation and open space, land and facilities development fee schedule.

CSF-3.25 **Commercial and Industrial Development**. All commercial and industrial developments shall provide recreational facilities on-site or contribute money to enhance the City's park and recreation system.

## 15.5 Environmental Impacts and Mitigation Measures

### 15.5.1 Significance Criteria

The following significance criteria for public services, utilities, & service systems were derived from the Environmental Checklist in CEQA Guidelines Appendix G. These significance criteria have been amended or supplemented, as appropriate, to address lead agency requirements and the full range of impacts of the project.

An impact of the project would be considered significant and would require mitigation if it would meet one of the following criteria.

- 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, to maintain acceptable service ratios, response times or other performance objectives for any of the following public services: Fire protection, Police protection, schools, parks, other public facilities.
- 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.
- Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years.

- 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?
- General 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.
- Comply with federal, state, and local management and reduction statutes and regulations related to solid waste.

### 15.5.2 Summary of No and/or Beneficial Impacts

#### Compliance with Solid Waste Regulations

The project would be located within City limits and would be provided solid waste collection and disposal services by a City contractor requiring compliance with federal, State, and local solid waste regulations. Therefore, there would be no impact.

### 15.5.3 Impacts of the Project

#### Impact PSU-1: Introduce in a new service population requiring the construction of new or altered police or fire facilities.

The project would result in the construction of 196 residential units on the project site. Based on an average population of 2.43 person / household [11], the project would result in the addition of approximately 476 residents to the City population.

As stated in the Population and Housing discussion in Chapter 4: Introduction to Environmental Analysis, the project would not result in an increase in population beyond what was anticipated by the City's General Plan (2023). By 2045, the General Plan projects an increase of 1,199 new households for a total buildout of 6,030 housing units; and a population increase of 3,011 for a total of 6,030 residents in the City. Therefore, the population increase generated by the project would not exceed the planned police and fire protection service provisions for the City. Additionally, the project site is located within City limits and is surrounded by areas of residential and recreational use that are currently within the service areas of SVPD and SVFD.

Both the police and fire department will require project plans as part of project entitlements to ensure adequate access for emergency services can be provided per General Plan Policy PSP-533. Therefore, the additional population of 476 new residents would not represent a substantial increase in population that would result in the need to construct new police or fire

11 Per https://www.census.gov/quickfacts/scottsvalleycitycalifornia (2018-2022)

protection facilities or alter existing facilities. Impacts would be less than significant and no mitigation is required.

### Impact PSU-2: Require construction of new or expanded educational facilities.

Residential development pursuant to the project would result in the construction of up to 196 residential units on the project site. Based on SVUSD's student yield factor of 0.4346 students per dwelling unit, the project could generate up to 85 school age children; see Table 15-1: Project Estimated Student Generation. These students would be expected to attend schools within SVUSD.

**Table 15-1: Project Estimated Student Generation**

| Residential Units | Student Yield Factor (per unit) | Students Generated |
|---|---|---|
| 196 | 0.4346 | 85 |

Source: SVUSD and Kimley-Horn, 2024.

According to the CA Department of Education, the SVUSD has a current (2022-2023) enrollment of 2,644 students. [12] An increase of 85 students (3%) within the SVUSD as a result of the project represents a three percent increase in enrollment. This increase in enrollment is not anticipated to cause SVUSD schools to operate above capacity or require the construction of additional school facilities.

Additionally, under SB 50 and current California Government and Education Codes, the payment of statutory fees is "deemed to be full and complete mitigation of the impacts of any legislative or adjudicative act, or both, involving, but not limited to, the planning, use, or development of real property, or any change in governmental organization or reorganization…on the provision of adequate school facilities." Therefore, the project would not require construction of new or expanded educational facilities and impacts to schools would be less than significant and no mitigation is required.

### Impact PSU-3: Require construction of new or expanded park facilities.

The project would result in a relatively small increase in population and housing that is consistent with the growth projections of the City's General Plan. Pursuant to Section 16.35 of the City Municipal Code, the project applicant is required to pay in-lieu fees, a dedication of

[12] https://www.ed-data.org/district/Santa-Cruz/Scotts-Valley-Unified#:~:text=(831)%20438%2D1820,CDS%20Code%2044%2D75432%2D0000000

land, or a combination of both for the provision of recreational resources. The fee shall be reduced by any applicable credit for the provision of private open space.

As shown in Table 15-2: Parkland Dedication Requirements, the project would be required to provide 3.042 acres of parks and open space.

**Table 15-2: Parkland Dedication Requirements**

| Land Use | # of Units | Rate Per Unit (acres) [1] | Total Acres |
|---|---|---|---|
| Single-family / Attached | 142 | .0180 | 2.556 |
| Multi-family | 54 | .0090 | 0.486 |
| **Total** | **196** | | **3.042** |

Notes:
1. Per Chapter 16.35 – Dedication of Land for Parks and Recreational Purposes of the Scotts Valley Municipal Code.

The project would provide 4.99 acres of parks and open space, or 1.95 acres more than required. Therefore, the project would not result in the substantial deterioration of existing recreational facilities or parks and would not require the construction of new facilities or parks. Therefore, impacts would be less than significant and no mitigation is required.

### Impact PSU-4: Require new or expanded water treatment facilities.

The anticipated water demand for the project is estimated to be 37,742 gallons per day of potable water (supplied by the SLVWD). [13] As shown in Table 12-1: Summary of SLVWD Current and Projected Potable Water Supplies (AFY), this potable water demand represents less than two percent of current water demand of 2,049 (2020) and is accounted for as part of future growth (2,277 AFY in 2045), as described in the *2020 UWMP for SLVWD and SVWD* (Montgomery & Associates, 2021).

Water use is predicted to steadily increase from 1,111 acre-feet in 2025 to 1,144 acre-feet in 2045. The 2020 UWMP found that the SMGB would have sufficient water supply to meet the projected potable water demand through 2045. The existing water treatment facilities have a capacity to support the SLVWD's pumping. As the project would not introduce growth beyond what was anticipated by the 2020 UWMP, the project would not require new or expanded water treatment facilities.

The potable water demand of approximately 42.21 AFY of water generated by the project would not exceed the capacity of the groundwater production system and no new wells or

[13] Email correspondence, Molly Robson, Robson Homes, 7/9/24.

treatment plants would be required. Construction and operational impacts on water treatment facilities would be less than significant and no mitigation is required.

The anticipated non-potable (recycled) water is estimated to be 12.84 AFY (supplied by the SVWD). [14] This estimate is based on the fact that as a condition of approval, the project would be required to connect to the existing SVWD recycled water line on Mt. Hermon Road and use recycled water for outdoor landscape irrigation. The project would utilize recycled water from a 530,000-gallon tank and is estimated to use a peak of 30,000 gallons per day which would equate to an additional production need of 20 gallons per minute. The SVWD has indicated that it has sufficient storage and production capacity to service the project with recycled water. [15]

Therefore, the project would not require new or expanded water treatment facilities and impacts would be less than significant.

### Impact PSU-5: Require the construction or expansion of new wastewater treatment facilities.

Conservatively assuming that all of the project's potable water use becomes wastewater, the project would generate approximately 37,742 gallons of wastewater per day (gpd). Wastewater from the project would gravity flow to an existing 10-inch sanitary sewer main that extends along Mt. Hermon Road, and an eight-inch sanitary sewer main on Lockewood Lane.

Based on the City of Scotts Valley Sewer System Management Plan (SSMP, Carollo, December 2021), the City's peak wet weather flow (PWWF) is estimated to increase from 5.40 mgd (2020) to 5.78 mgd by 2040, for an increase of 0.38 mgd (see SSMP Table 9.1). The capacity evaluation found that the lift stations and force mains have sufficient capacity through 2040.

The SSMP includes a capacity analysis to identify areas in the sewer system where flow restrictions occur or where pipe capacity is insufficient to convey design flows. The majority of the City sewers contain sufficient capacity to accommodate existing and future design flows without exceeding the established capacity criteria. However, there are a few exceptions where existing sewers were recommended to be replaced by larger diameter sewers, along with various lift station rehabilitation projects. These sewer upgrade projects include:

- Old Pueblo Road (Project GM-1) – replacement of 580 feet of 6-inch diameter gravity sewer with a 10-inch diameter pipeline.
- Scotts Valley Drive Diversion (Project GM-2) – constructing a diversion structure and approximately 60 feet of 10-inch diameter of new gravity sewer along Scotts Valley Drive.

[14] Email correspondence, Molly Robson, Robson Homes, 7/9/24.
[15] Email correspondence, Nate Gillespie, Scotts Valley Water District, 8/28/24.

- East of Highway 17 (Project GM-3A) – replacement of 1,220 feet of 10-inch diameter gravity sewer pipeline with a 12-inch pipeline between Navarra Drive and Meadow Way.
- East of Highway 17 Creek Crossing (Project GM-3B) – replacement of 300 feet of 10-inch diameter gravity sewer pipeline with a 12-inch pipeline across Carbonera Creek.
- Glenwood Drive (Project GM-4) – replacement of 730 feet of 10-inch diameter gravity sewer pipeline with a 12-inch pipeline along Glenwood Drive between Vine Hill School Road and Scotts Valley Drive.

The SSMP estimated approximately $16.96 million worth of projects (averaging $0.85 million annually) over the20-year planning period.

The capacity analysis utilized the Association of Monterey Bay Area Governments population estimate of 12,418 through 2040 (see SSMP Appendix J, Table 2). This growth was compared with the City's General Plan (1994, as amended) which identified 24 acres of vacant and 44 acres of underutilized land in the service area. The analysis also included City-identified future development plans consisting of approximately 149 acres of residential land use and 42 acres of non-residential land use.

The project site (Valley Gardens) was included as part of the list of future development plans (see SSMP Appendix J, Figure 3 Future Connections and Table 9 Planned Projects ADWF), for which it assumed an ADWF of 2,880 gpd, significantly less than the 37,742 gpd assumed for the project (i.e., 34,862 gpd greater than assumed).

Given this significant increase in wastewater flows as compared to that analyzed in the SSMP, there is a possibility that a portion of the existing sewer main extending along Mt. Hermon Road to the treatment plant may need be upgraded to accommodate the additional demand. This is a potentially significant impact. Mitigation Measure PSU-5.1 Wastewater Capacity Study would reduce this impact to less than significant.

The project's wastewater would be accommodated within the Scotts Valley Water Reclamation Facility's (treatment plant). The treatment plant has a dry weather capacity of 1.5 mgd (1,500,000 gpd) and an average dry weather flow is .855 mgd (855,000 gpd), resulting in an available capacity of .645 mgd (645,000 gpd). [16] The project would contribute approximately 37,742 gpd, or approximately six percent (6%) of existing available capacity and therefore impacts would be less than significant.

[16] Email communication, Jeremy Long, Wastewater Division Manager, City of Scotts Valley, 8/30/24.

## Mitigation for Impact PSU-1

### Mitigation Measure PSU-5.1 Wastewater Capacity Study

Prior to issuance of a grading permit or the Final Map (whichever comes first), the project applicant shall prepare (at their cost) a Wastewater Capacity Study to evaluate if the existing wastewater distribution system can accommodate the project. If improvements are necessary, the Wastewater Capacity Study shall describe the improvements and identify their construction cost (total and fair-share contribution) and timing. If off-site improvements are required, the project applicant and City shall enter into a cost-sharing agreement (or other arrangement as approved by the City's Public Works Director) to fund and construct the necessary improvements for the project.

## Impact PSU-6: Require the construction or expansion of stormwater drainage facilities.

Project development would include construction of a new stormwater collection, retention, and treatment system to comply with Tier 4 Post-Construction Requirements (PCRs) per the Central Coast Regional Water Quality Control Board (RWQCB). Because the project would create 22,500 sf. or more of impervious surface, post-development peak flows discharged from the project site must not exceed pre-project peak flows for the two-year through 10-year storm events. This requirement is in addition to other requirements for Tier 1-3 projects, which also apply to Tier 4 projects. As described in Chapter 12 Hydrology & Water Quality – Impact HYD-2, pre- and post-off-site stormwater impacts would not be significant and no mitigation is required.

Given that existing regulations require the project applicant to adhere to Tier 4 PCR requirements, and the fact that post stormwater run-off would not exceed existing pre stormwater runoff conditions, the project would not require the construction or expansion of stormwater drainage facilities and impacts from the project would be less than significant and no mitigation is required.

## Impact PSU-7: Require the construction or expansion of electric power, natural gas, or telecommunications.

The project would require new connections to PG&E for electricity and natural gas. In addition, the project would require new telecommunication connections with the respective service providers. The project site is surrounded by residential development to the south, east, and west and commercial to the north, which are serviced by various dry utility providers. Because these utilities would be readily extended from existing infrastructure adjacent to the project site, impacts from the project would be less than significant and no mitigation is required.

## Impact PSU-8: Generate solid waste that would exceed the capacity of area landfills.

Solid waste generated by the project are shown in Table 15-3: Project Estimated Daily Solid Waste Generation.

**Table 15-3: Project Estimated Daily Solid Waste Generation**

| Use | Units / Net SF | Generation Rate [1] | Total lbs. per Day |
|---|---|---|---|
| Residential | 196 | 12.23 / unit | 2,397 |
| Commercial | 8,350 | 2.5 / 1,000 sf | 21 |
| **Total** | -- | | **2,418** |

Notes:
1. CalRecycle, 2024.

The 2,418 pounds of daily solid waste generated by the project would represent less than one percent of the daily permit capacity of the Monterey Peninsula landfill. The landfill would have adequate capacity to contain the solid waste generated by the project.

The project would also generate waste during the construction phase. CalGREEN Section 4.408, Construction Waste Reduction Disposal and Recycling, mandates that, in the absence of a more stringent local ordinance, a minimum of 50 percent of non-hazardous construction (and demolition) debris must be recycled or salvaged. Adherence to the Building Code would reduce total waste generated by demolition and construction, and the waste would be appropriately sorted disposed at landfills with adequate capacity.

Based on the analysis above, construction and operational Impacts would be less than significant.

### 15.5.4 Cumulative Impact Analysis

The geographic area for the analysis of cumulative public service and utility service impacts is the service area of the respective provider.

#### Impact PSU-9: Contribute to cumulatively considerable public services, utilities, and service system impacts.

**Public Services**

Regarding police and fire protection services, the General Plan (2023) anticipates adequate protection services to support the buildout (2045) of 6,030 housing units and 15,084 people to the City. The project, combined with past, present, and reasonably foreseeable future projects, would not exceed those projections, and impacts to police and fire protection services would be less than significant and no mitigation is required.

Regarding schools, the project is not anticipated to cause SVUSD schools to operate above capacity. Moreover, payment of statutory fees for new development is deemed adequate to address impacts to public schools. Developers of present and reasonably foreseeable future projects would be required to pay these fees. Therefore, impacts to schools would be less than significant and no mitigation is required.

### Utilities

Regarding water demand, the SLVWD has analyzed water demand through 2045—inclusive of past, present, and reasonably foreseeable future projects—and finds that adequate entitlement and groundwater pumping capacity exists to serve that development (Montgomery & Associates, 2021b).

Wastewater generation from cumulative projects would similarly be accommodated within the City's Water Reclamation Facility's remaining dry weather capacity of 0.796 mgd.

Regarding stormwater, adherence to the RWQCB's stringent Post-Construction Requirements (PCRs) for proposed development projects would ensure that cumulative development minimizes stormwater flows.

Lastly, the Monterey Peninsula landfills have an estimated closure year of 2107. Solid waste generation from past, present, and reasonably foreseeable future projects would be accommodated within those capacities.

In conclusion, cumulative impacts to public services, utilities and service systems would be less than significant.

## 15.5.5 Level of Significance after Mitigation

Table 15-4: Summary of Impacts and Mitigation Measures – Public Services, Utilities & Service Systems summarizes the environmental impacts, significance determinations, and mitigation measures for the project with regard to public services, utilities, & service systems.

**Table 15-4: Summary of Impacts and Mitigation Measures – Public Services, Utilities & Service Systems**

| Impact | Impact Significance | Mitigation |
|---|---|---|
| Impact PSU-1: Introduce a new service population requiring the construction of new or altered police or fire facilities. | Less than Significant | None required |
| Impact PSU-2: Require construction of new or expanded educational facilities. | Less than Significant | None required |
| Impact PSU-3: Require construction of new or expended park facilities. | Less than Significant | None required |
| Impact PSU-4: Require new or expanded water treatment facilities. | Less than Significant | None required |
| Impact PSU-5: Require the construction or expansion of new wastewater treatment facilities. | Potentially Significant | Mitigation Measure PSU-5.1 Wastewater Capacity Study |

| Impact | Impact Significance | Mitigation |
|---|---|---|
| Impact PSU-6: Require the construction or expansion of stormwater drainage facilities. | Less than Significant | None required |
| Impact PSU-7: Require the construction or expansion of electric power, natural gas, or telecommunications. | Less than Significant | None required |
| Impact PSU-8: Generate solid waste that would exceed the capacity of area landfills. | Less than Significant | None required |
| Impact PSU-9: Contribute to cumulatively considerable public services, utilities and service system impacts. | Less than Significant | None required |

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# 16 Transportation

## 16.1 Introduction

This section evaluates the potential effects of the Valley Gardens project on the circulation system including vehicle miles traveled (VMT), transit, safety, bicycle and pedestrian facilities, and emergency access. Information used to prepare this section is referenced from the following resources:

- Scotts Valley General Plan (November 2023)
- Highway Capacity Manual (HCM) 6th, Transportation Research Board
- City of Scotts Valley Bicycle Transportation Plan (2012)
- City of Scotts Valley Guide for the Preparation of Traffic Impact Studies (2003)
- Caltrans Guide for the Preparation of Traffic Impact Studies (2002)
- Caltrans Highway Design Manual (2020)
- Senate Bill 743 (regarding VMT)
- Aerial photography
- Project application and related materials
- Transportation Modeling Data & Analysis (Appendix H)

Relative to level of service (LOS) analysis, Section 15064.3 was added to the State CEQA Guidelines effective December 28, 2018, as part of a comprehensive guidelines update and addresses the determination of significance for transportation impacts under CEQA. This section requires that transportation impact analysis be based on VMT instead of a congestion metric (such as LOS) and states that a project's effect on automobile delay shall not constitute a significant environmental impact. It is provided at the end of this section to evaluate consistency with the currently adopted General Plan (2023), in particular; policies M-3.9 and M-3.10.

## 16.2 Scoping Issues Addressed

During the scoping period for the project, one letter from the public regarding transportation and circulation was received. Concerns raised included the following:

- Increased impacts on traffic, sidewalks, and bike lanes on Lockewood Lane
- Recommendation to review potential traffic, pedestrian and bike impacts on Estrella Drive

## 16.3 Environmental Setting

This section presents information on transportation and circulation conditions in the project area.

### 16.3.1 Existing Roadway Network

#### State Highways

##### Highway 17

Highway 17 is a four-lane north-south highway connecting the San Francisco Bay Area in the north to Scotts Valley and Santa Cruz in the south. The posted speed limit on Highway 17 is 65 miles per hour (mph) in the project vicinity. A partial clover interchange connects Mt. Hermon Road to Highway 17.

#### City Streets

##### Mt. Hermon Road

Mt. Hermon Road is a four-lane divided arterial in the project vicinity and extends from Graham Hill Road to Highway 17. Mt. Hermon Road connects local residents to city retail, businesses, and amenities and provides access to the regional network through Highway 17. The posted speed limit is 35-mph in the project vicinity.

##### Scotts Valley Drive

Scotts Valley Drive connects the northern Scotts Valley area to Mt. Hermon Road. Within the study area, Scotts Valley Drive is a four-lane divided arterial. Scotts Valley Drive is an important road within the City because it connects local residents to retail, businesses, schools, and amenities. The posted speed limit is 35-mph in the project vicinity (and 25-mph when school children are present near the Bean Creek Road/Scotts Valley Drive intersection). It is a four-lane divided roadway at the study intersection.

##### Whispering Pines Drive

West of Mt. Hermon Road, Scotts Valley Drive is signed as Whispering Pines Drive, and is a two-lane undivided local road with a 30-mph posted speed limit. Whispering Pines Drive connects local residential neighborhoods to Mt. Hermon Road and Scotts Valley Drive arterials.

##### Graham Hill Road

Graham Hill Road is a two-lane undivided roadway which intersects Lockewood Lane and connects to Highway 9 to the north and Ocean Street to the south. This roadway primarily serves local residents, and the posted speed limit is 45-mph.

##### Lockewood Lane

Lockewood Lane is a two-lane undivided local roadway which intersects Mt. Hermon Road and Graham Hill Road. This roadway primarily serves local residents, and the posted speed limit is 30-mph.

### Skypark Drive

Skypark Drive is a two-lane undivided local roadway which intersects Mt. Hermon Road and extends northeast into a residential community. This roadway primarily serves local residents, and the posted speed limit is 25-mph.

### Estrella Drive

Estrella Drive is a two-lane undivided local roadway which intersects Lockewood Lane and Whispering Pines Drive. This roadway primarily serves local residents, and the posted speed limit is 25-mph.

### Kings Village Road

Kings Village Road is a two-lane undivided collector roadway which intersects Mt. Hermon Road and Bluebonnet Lane. This roadway primarily serves retail and commercial land uses. There is no posted speed limit, but the assumed speed limit given the roadway classification is 30-mph.

### Spring Lakes Drive

Spring Lakes Drive is a two-lane undivided local roadway which intersects Mt. Hermon Road and extends southwest. This roadway primarily serves retail uses and local residents. There is no posted speed limit, but the assumed speed limit given the roadway classification is 25-mph.

### La Madrona Drive

La Madrona Drive is a two-lane undivided collector roadway in the project vicinity that connects at the intersection of Mt. Hermon Road and Highway 17 SB Off Ramp. This roadway primarily serves local residence, business, and a hotel. The posted speed limit is 35-mph.

## 16.3.2 Existing Pedestrian Facilities

Existing pedestrian facilities in the project vicinity include sidewalks along Mt. Hermon Road, Lockewood Lane, Skypark Drive, Kings Village Road, Scotts Valley Drive, Whispering Pines Drive, and La Madrona Drive. There are sidewalks along the project frontage on Mt. Hermon Road and Lockewood Lane. Within the study area on the east side of Lockewood Lane, there are gaps between Mt. Hermon Road and 300 feet south of Locke Way and between Whispering Pines Drive and Graham Hill Road. On the south side of Mt. Hermon Road, there are no gaps within the study area except between Glen Canyon Road and La Madrona Drive, where the sidewalk connects to the Torrey Oaks Linear Park.

## 16.3.3 Existing Bicycle Facilities

Bicycle facilities are divided into four classes. Class I bike paths are physically separated from motor vehicle lanes and offer two-way bicycle travel. Class II bike lanes on roadways are marked by signage and pavement striping. Painted buffers may separate the vehicle travel lanes from the bike lane and green bike lane pavement coloring are typically used to highlight potential conflict zones between vehicles and cyclists. Class III bike routes share the travel lane with motor vehicles and only have signs and sharrow striping to guide bicyclists on paved

routes. Class IV bike facilities are protected cycletracks that provide a physical barrier between motor vehicles and cyclists.

In the project vicinity, Class II bike lanes exist on the following roadway segments: Mt. Hermon Road from Highway 17 On/Off Ramps extending west of Graham Hill Road; Scotts Valley Drive from Highway 17 SB Ramps to Estrella Drive (on Whispering Pines Drive); Kings Village Road from Bluebonnet Lane to Mt. Hermon Road; Skypark Drive from Mt. Hermon Road to Navigator Drive, La Madrona Drive from Mt. Hermon Road to Silver Wood Drive.

The project site will have direct access to the existing Class II bicycle lanes on Mt. Hermon Road.

### 16.3.4 Existing Transit Facilities

The Santa Cruz Metropolitan Transit District (SCMTD) provides transit service in the City of Scotts Valley. The SCMTD bus route in the project site vicinity is Route 35.

Bus stops are located at Mt. Hermon Road/Scotts Valley Square (approximately 630 north of Project site), and Mt. Hermon Road/Kings Village Shopping Center (approximately 200 feet east of Project site).

The Cavallaro Transit Center is located on Kings Village Road approximately 0.5 miles north of the project site.

## 16.4 Applicable Regulations, Plans, and Standards

### 16.4.1 Federal

#### Americans with Disabilities Act

The Americans with Disabilities Act (ADA) of 1990 prohibits discrimination toward people with disabilities and guarantees that they have equal opportunities as the rest of society to become employed, purchase goods and services, and participate in government programs and services. The ADA includes requirements pertaining to transportation infrastructure. The Department of Justice's revised regulations for Titles II and III of the ADA, known as the 2010 ADA Standards for Accessible Designs, set minimum requirements for newly designed and constructed or altered State and local government facilities, public accommodations, and commercial facilities to be readily accessible to and usable by individuals with disabilities. These standards apply to accessible walking routes, curb ramps, and other facilities.

#### Surface Transportation Assistance Act Routes (STAA – Federal Designation)

The Surface Transportation Assistance Act (STAA) of 1982 allows large trucks, referred to as STAA trucks that comply with maximum length and width requirements, to operate on routes that are part of the National Network. The National Network includes the Interstate System and other designated highways that were a part of the Federal-Aid Primary System on June 1, 1991; states are encouraged, however, to allow access for STAA trucks on all highways. Highway 17 is classified as an STAA route (Terminal Access).

### 16.4.2 State

#### Senate Bill 743 – Transportation Impacts

Adopted in 2013, Senate Bill (SB) 743 changes how transportation impacts are evaluated under CEQA. Previously, CEQA analysis was conducted using an LOS measurement that evaluated traffic delay. As specified under SB 743 and implemented under Section 15064.3 of the State CEQA Guidelines (effective December 28, 2018), VMT is the required metric to be used for identifying CEQA impacts and mitigation. In December 2018, the Governor's Office of Planning and Research (OPR) published a Technical Advisory on Evaluating Transportation Impacts, including guidance for VMT analysis. The Office of Administrative Law approved the updated CEQA Guidelines and lead agencies were given until July 1, 2020, to implement the updated guidelines for VMT analysis.

VMT was chosen as the primary metric to better integrate land use and multimodal transportation choices, to encourage alternative transportation, promote greater efficiency, and reduce GHG emissions. The most recent technical guidance on analyzing the transportation impacts under CEQA, released by OPR in December of 2018, provides recommendations regarding assessment of VMT, thresholds of significance, and mitigation measures. OPR offered a generalized recommendation of a 15 percent reduction below existing VMT as a threshold of CEQA significance.

For the VMT analysis, OPR recommends using a trip-based assessment of VMT that captures the full extent of the vehicle trip length – even the portion that extends beyond the jurisdictional boundary (trips that extend into another county). This differs from the traditional boundary- based assessment of VMT impacts that quantifies only the length of the vehicle trips that occurs within the boundaries of a jurisdiction.

Additionally, SB 743 also amended the State congestion management program statutes lifting the sunset clause for the designation of infill opportunity zones, where CMP LOS standards would no longer apply.

#### California Complete Streets Act of 2008

This act requires that the circulation elements of local general plans accommodate a balanced, multimodal transportation network that meets the needs of all users of streets, roads, and highways in a manner that is suitable to the rural, suburban, or urban context of the jurisdiction. Users are defined to include motorists, pedestrians, bicyclists, children, persons with disabilities, seniors, movers of commercial goods, and riders of public transportation.

#### California Transportation Development Act

The Mills-Alquist-Deddeh Act (SB 325) (also known as the Transportation Development Act [TDA]) was enacted in 1971 to improve public transportation services and encourage regional transportation coordination. This law provides funding to be allocated to transit- and non-transit-related purposes that comply with regional transportation plans. The TDA provides two funding sources: 1) the Local Transportation Fund (LTF), which is derived from a ¼ cent of the

general sales tax collected statewide, and 2) the State Transit Assistance fund (STA), which is derived from the statewide sales tax on diesel fuel.

#### California Environmental Quality

The Steinberg Act (SB 743) (also known as the Environmental Act) was enacted in 2013 to shift the focus of transportation analysis from driver delay to reducing greenhouse gas emissions, creating multimodal networks, and promoting mixed land uses. SB 743 requires the Governor's Office of Planning and Research (OPR) to amend the CEQA Guidelines to provide alternative level of service metrics for transportation impact evaluations. The alternative criteria must encourage greenhouse gas emissions reductions, support the development of multimodal transportation networks, and promote a diversity of land uses. In August 2014, OPR released a preliminary discussion draft of changes to the CEQA Guidelines for review and comment, and the office is currently developing a revised draft for further review and comment. Under the new guidelines, measurements of transportation impacts may include vehicle miles traveled, vehicle miles traveled per capita, automobile trip generation rates, or automobile trips generated.

#### Measure D

Measure D was a proposed ½ cent local sales tax increase included on the November 2016 ballot in Santa Cruz County. The Measure, which will focus on transportation safety upgrades, roadway repairs, traffic relief, and transit augmentation, was approved by voters via a super majority (over 67% voting "yes").

The improvement plan will provide steady and direct funding to Santa Cruz County and all Cities within the County to improve the transportation network, including Highway 17. Transportation improvements will include improvements of local streets, road maintenance, bicycle and pedestrian projects, transit, and paratransit service upgrades, as well as implementation of many other projects and programs. These improvements are voter approved and by default law, must be implemented.

### 16.4.3 Local

#### Scotts Valley General Plan

The following development-related policies from the Scotts Valley General Plan (2023) would avoid or help reduce impacts associated with the project:

M-1.10 **Electric Vehicle Facilities**. Encourage new commercial development to provide facilities that support alternative mobility options such as electric vehicle stations, rideshare zones, bike and scooter parking, etc.

M-1.11 **Residential Vehicle Charging Facilities**. Encourage new residential development to provide facilities for electric vehicle charging.

M-3.14 **Traffic Impact Analysis**. Consistent with the City's traffic impact fee assessment program, require new development projects to prepare a traffic impact analysis, when necessary, per the requirements as defined in the City's Guide for the Preparation of Traffic Impacts Studies.

M-3.15 **Fair Share Contribution**. Require those benefiting from transportation improvements to pay an appropriate share of the costs.

M-3.16 **Traffic Impact Mitigation Fees**. Collect traffic impact mitigation fees from developers of new projects. Use these fees to construct various transportation and mobility improvements including bikeways, pedestrian pathways, and transit facilities.

M-3.17 **Mitigation for Alternative Mobility Options**. Through the environmental review process, consider mitigations for traffic impacts which encourage the use of public transit and non-motorized vehicles.

M-3.18 **Vehicle Miles Traveled Standards and CEQA Evaluation**. The City shall require evaluation of General Plan land use designation changes, zone changes, and discretionary development for their individual (i.e., project-specific) and cumulative transportation impacts based on Vehicle Miles Traveled (VMT) under the California Environmental Quality Act (CEQA) pursuant to the methodology and thresholds of significance criteria as set forth in the City of Scotts Valley SB 743 Implementation Guidelines.

M-7.5 **Development Projects**. Require all new development to provide pedestrian pathways and associated pedestrian amenities (e.g., benches, signage, etc.), particularly along arterial roadways and within one quarter mile of the Cavallaro Transit Center.

M-7.6 **Sidewalks**. As part of capital improvement programs and new public or private roadway improvement projects, require the installation of sidewalks and pedestrian crossings in appropriate areas.

### Scotts Valley Bicycle Transportation Plan

Relevant plans, policies, and programs regarding bicycle facilities are included in the *Scotts Valley Bicycle Transportation Plan (2012)*. The project site is located along a proposed Class I designated bicycle route along Lockewood Lane. Within the project site, a Class I separated multi-use pedestrian/bicycle trail that will be constructed along Springvale Drive. This is consistent with the goals outlined in the Scotts Valley Bicycle Transportation Plan.

#### Draft VMT Implementation Guidelines

SB 743 identifies significance thresholds and a methodology for analyzing a land use and transportation project's potential impacts associated with vehicle miles traveled (VMT). It also includes travel demand management strategies to help mitigate VMT impacts. Consistent with SB 743, the City has developed the Draft VMT Implementation Guidelines and a VMT Calculator (Kimley-Horn and Associates, 2021), which is pending review and adoption by the City Council.

## 16.5 Environmental Impacts and Mitigation Measures

### 16.5.1 Significance Criteria

#### CEQA Criteria

The following significance criteria for transportation and circulation were derived from the Environmental Checklist in CEQA Guidelines Appendix G. These significance criteria have been amended or supplemented, as appropriate, to address lead agency requirements and the full range of potential impacts related to this project.

A Project impact would be considered significant and would require mitigation if it would meet one of the following criteria.

- Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities.
- Conflict with or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?
- Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment).
- Result in inadequate emergency access.

For the purposes of VMT, implementation of the General Plan would have a significant transportation impact if it would result in VMT exceeding the thresholds as shown in Exhibit 5: Scotts Valley VMT Thresholds of Significance for Land Use Projects of the City's Draft VMT Implementation Guidelines (2021), which is shown below for reference.

### Exhibit 5: Scotts Valley VMT Thresholds of Significance for Land Use Projects

| Land Use | VMT Threshold | Basis |
|---|---|---|
| Residential | 10.0 VMT/capita [1] | 15% below the existing City's average VMT per capita. |
| Office | 7.4 Work VMT/Employee [2] | 15% below existing Santa Cruz County-wide average Work VMT per employee. |
| Retail | Net regional change | Using Santa Cruz County as the basis. |
| Industrial | 11.0 Work VMT/Employee [2] | 15% below existing county-wide average Work VMT per employee. |
| Other Employment | Work VMT/Employee [2] | 15% below existing county-wide average Work VMT per employee for similar land uses. |
| Other Customer | Net regional change | Using Santa Cruz County as the basis. |
| Transportation Projects | Net increase to countywide VMT | Using Santa Cruz County as the basis. |

Notes:

1. Residential VMT specifically applies to all Home-Based trips residential trips as represented in the Travel Demand Model. Appendix A of the City's VMT Implementation Guidelines has additional information.
2. Work VMT specifically applies to commute trips as represented in the Travel Demand Model. Refer to Appendix A of the City's VMT Implementation Guidelines for additional information.

Source: City of Scotts, Valley *Analyzing Vehicle Miles Traveled for CEQA Compliance* (Kimley-Horn & Associates, November 2023).

## 16.5.2 Summary of No and/or Beneficial Impacts

### Change in Air Traffic Patterns

The project site is not located near an airport or private air strip and would not result in a change in air traffic patterns. Therefore, there would be no impact.

### Conflict with Adopted Policies, Plans, or Programs Supporting Alternative Transportation

The project would not result in the construction of new or altered public roadways or transit facilities. The existing transit facility located adjacent to the project site on Mt. Herman Road would remain. Within the project site, a Class I separated multi-use pedestrian/bicycle trail that will be constructed along Springvale Drive. This is consistent with the goals outlined in the Scotts Valley Bicycle Transportation Plan (2012). Therefore, the project would not conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or decrease the performance or safety of such facilities. Therefore, there would be no impact.

### Emergency Access & Hazards

Access via public roadways to the project site would remain unchanged and would be adequate for emergencies. Therefore, there would be no impact.

### 16.5.3 Impacts of the Project

#### Impact TR-1: Exceed VMT Thresholds

Developed in coordination with Santa Cruz County and the cities of Santa Cruz, Capitola, and Watsonville, the City's *Analyzing Vehicle Miles Traveled for CEQA Compliance* (Kimley-Horn and Associates, November 2023), which is consistent with and implements SB 743, describes the methodology and performance mitigation measures for analyzing VMT impacts. If there are multiple distinct land uses within the project (residential, office, retail, etc.), they are analyzed separately, unless they are determined to be insignificant to the total VMT. Mixed-use projects are permitted to account for internal capture which depending on the methodology. Project impacts are analyzed using the "VMT Calculator" which analyzes a project relative to the region's AMBAG traffic model.

The mixed-use project includes both residential and commercial retail uses. Because no single tenancy is greater than 50,000 gross square feet, the commercial retail portion of the project is considered a "local serving retail" use and is exempt from further analysis per both the Draft VMT Implementation Guidelines and SB 743.

The residential portion of the project includes 62 two-story sing-family dwellings, 80 attached and detached two, to three story single-family dwellings, and 54 multi-family apartments in two buildings (18 units and 36 units, respectively).

Per the Draft VMT Implementation Guidelines and SB 743, the VMT threshold of significance is a reduction of 15% below the City's existing average VMT per capita of 11.7, which equates to 10.0 VMT per capita.

Figure 16-1: Baseline Residential VMT per Capita shows the baseline VMT resident for the City of Scotts Valley to illustrate differences by geographic areas, called Transportation Analysis Zones (TAZ). TAZ areas shown in green represent areas that are eligible to receive streamlining for VMT analysis because these areas are considered to be at or below the City's VMT threshold. For projects that are not screened out, OPR recommends comparing the VMT generated by a project to the City's VMT threshold.

Furthermore, for a residential land use in the TAZ where this project is located, the VMT calculator shows that the VMT per capita would be 8.5. The VMT per capita is less than the threshold of 10.0, and thereby results in a less than significant impact. Therefore, no mitigation is required.

#### Impact TR-2: Substantially increase hazards due to a design feature or incompatible use.

This impact analysis discusses potentially significant hazards related to site access, pedestrian facilities, bicycle facilities, transit facilities, and sight distance analysis for the project.

### Site Access

The project proposes one unsignalized full access driveway at Lockewood Lane and one unsignalized driveway at Mt. Hermon with right-in, right-out, and left-in configuration. The following summarizes the project access locations:

- Lockewood Lane/Springvale Drive
  - Full access
  - Residential use
  - Stop controlled for westbound approach
- Mt. Hermon Road/Springvale Drive
  - Left-turn inbound (with right turns inbound and outbound)
  - Residential and restaurant use
  - Stop controlled for northbound approach

Appendix H: Transportation Modeling Data & Analysis contains the queuing worksheets for the project's driveways. These AM/PM peak hour worksheets are the results of the Existing Plus Project Conditions and Cumulative Plus Project Conditions analyses and show that the proposed driveways have throat depths with sufficient lengths to accommodate the project queues during the site's peak hours.

For the project driveway on Lockewood Lane, the throat depth was measured as approximately 155 feet, which is the distance from the adjacent roadway to Court A on the south side of Springvale Drive. As shown in the queuing worksheets, the estimated outbound vehicle queue is 0.1 vehicles, which is less than 25 feet. For the project driveway on Mt. Hermon Road, the throat depth was measured as approximately 150 feet, which is the distance from the adjacent roadway to the restaurant driveway west side of Springvale Drive. As shown in the queuing worksheets, the estimated outbound vehicle queue is 2.3 vehicles, which is 58 feet. Therefore, there are no anticipated conflicts concerning the outbound queuing vehicles at either of the project driveways and impacts would be less than significant.

### Pedestrian Facilities

There are currently paved sidewalks along the southern side of Mt. Hermon Road and the eastern side of Lockewood Lane that connects the project site to nearby residential and retail uses. There are gaps on the east side of Lockewood Lane between Mt. Hermon Road and 300 feet south of Locke Way and between Whispering Pines Drive and Graham Hill Road. On the south side of Mt. Hermon Road, there are no gaps within the study area except between Glen Canyon Road and La Madrona Drive, where the sidewalk connects to the Torrey Oaks Linear Park.

Within the residential portion of the project site, there are sidewalks proposed on Springvale Drive connecting the project driveway on Lockewood Lane to the project driveway on Mt. Hermon Road.

Within the restaurant portion of the project site, there are pedestrian paths connecting Springvale Drive to the restaurant site. No additional off-site pedestrian facilities are identified to be constructed by the project.

While no significant impacts to pedestrian safety are identified, it is recommended as a condition of approval that pedestrian crosswalks be constructed to provide access from the parking spaces along the north and east sides of the parking lot to the building.

### Bicycle Facilities

There are many existing bicycle facilities within the study area that provide access to the project site. A Class II bicycle lane in exists in each direction along Mt. Hermon Road adjacent to the project.

Bicycle parking on the project site includes bike racks associated with the commercial area, apartments, and park, consistent with City requirements. Therefore, impacts are considered less than significant.

### Transit

SCMTD bus route in the project site vicinity is Route 35, which runs along Mt. Hermon Road. Bus stops are located at Mt. Hermon Road/Scotts Valley Square (approximately 630 north of Project site), and Mt. Hermon Road/Kings Village Shopping Center (approximately 200 feet east of Project site). The Cavallaro Transit Center is located on Kings Village Road approximately 0.5 miles north of the project site. Pedestrians and bicyclists are able to access the transit center by sidewalks and Class II bike lanes along Mt. Hermon Road and Kings Village Road.

Since there are sufficient transit facilities adjacent to the project along Mt. Hermon Road and to nearby complimentary uses, no additional transit facilities are recommended and impacts would be less than significant.

### Outbound Sight Distance

An outbound sight distance analysis for the project driveways was conducted to determine if vehicles exiting the stop-controlled driveways would have adequate sight distance to observe conflicting traffic along the major roadway adjacent to the project site. Intersection sight distance for the project driveway was evaluated following methodology from the American Association of State Highway and Transportation Officials (AASHTO), *A Policy on Geometric Design of Highway and Street, 7th Edition*[17]. Sight distance for each project driveway was

[17] *A Policy on Geometric Design of Highway and Street, 7th Edition,* American Association of State Highway and Transportation Officials (AASHTO), 2018.

determined based the project site plan and the following AASHTO intersection sight distance criteria formula:

Intersection Sight Distance = 1.47 x $V_{major}$ x $t_g$

Where $V_{major}$ is the design speed of the major road and $t_g$ is the time gap for the vehicle to exit the project driveway and enter the major road. No spot speed study was conducted; posted speed limits and design speeds were used to determine sight distance.

Intersection #3 – Lockewood Lane/Springvale Drive

The Lockewood Lane/Springvale Drive driveway provides full outbound access from the site. Using the time gap for passenger cars, the time gap is 6.5 seconds for a vehicle to make a right-turn movement onto Lockewood Lane and 7.5 seconds to make a left turn movement. With a 40-mph design speed along Lockewood Lane, the sight distance criterion for passenger cars making a right-turn is 385 feet and the sight distance criterion for passenger cars making a left-turn is 445 feet. As shown in the Figure 16-3: Intersection #3 Sight Distance, the sight triangles at the Lockewood Lane/Springvale Drive driveway should be clear of obstructions for a passenger vehicle exiting the driveway to observe oncoming northbound and southbound vehicles along Lockewood Lane, and therefore impacts would be less than significant.

Intersection #5 – Mt. Hermon Road/Springvale Drive

The Mt. Hermon Road/Springvale Drive driveway provides only right-turn outbound access from the site. Using the time gap for passenger cars, the time gap is 6.5 seconds for a vehicle to make a right-turn movement onto Mt. Hermon Road. With a 45-mph design speed along Mt. Hermon Road, the sight distance criterion for passenger cars making a right-turn is 430 feet. As shown in the Figure 16-4: Intersection #5 Sight Distance, the sight triangles at the Mt. Hermon Road/Springvale Drive should be clear of obstructions for a passenger vehicle exiting the driveway to observe oncoming eastbound vehicles along Mt. Hermon Road, and therefore impacts would be less than significant.

### Inbound Sight Distance

Another sight distance analysis for the project driveways was conducted to determine if vehicles making a westbound left-turn inbound at intersection #5 (Mt. Hermon Road/Springvale Drive) would have adequate sight distance to observe conflicting traffic along the major roadway adjacent to the project site. Using the AASHTO methodology stated above, sight distance for the driveway was determined.

Using the time gap for passenger cars, the time gap is 6.0 seconds for a vehicle to make a left-turn movement from Mt. Hermon Road onto Springvale Drive. With a 45-mph design speed along Mt. Hermon Road, the sight distance criterion for passenger cars making a left-turn is 400 feet. As shown in the Figure 16-5: Intersection #5 Inbound Sight Distance, the placement will provide 715 feet of sight distance, which is adequate for a passenger vehicle exiting the

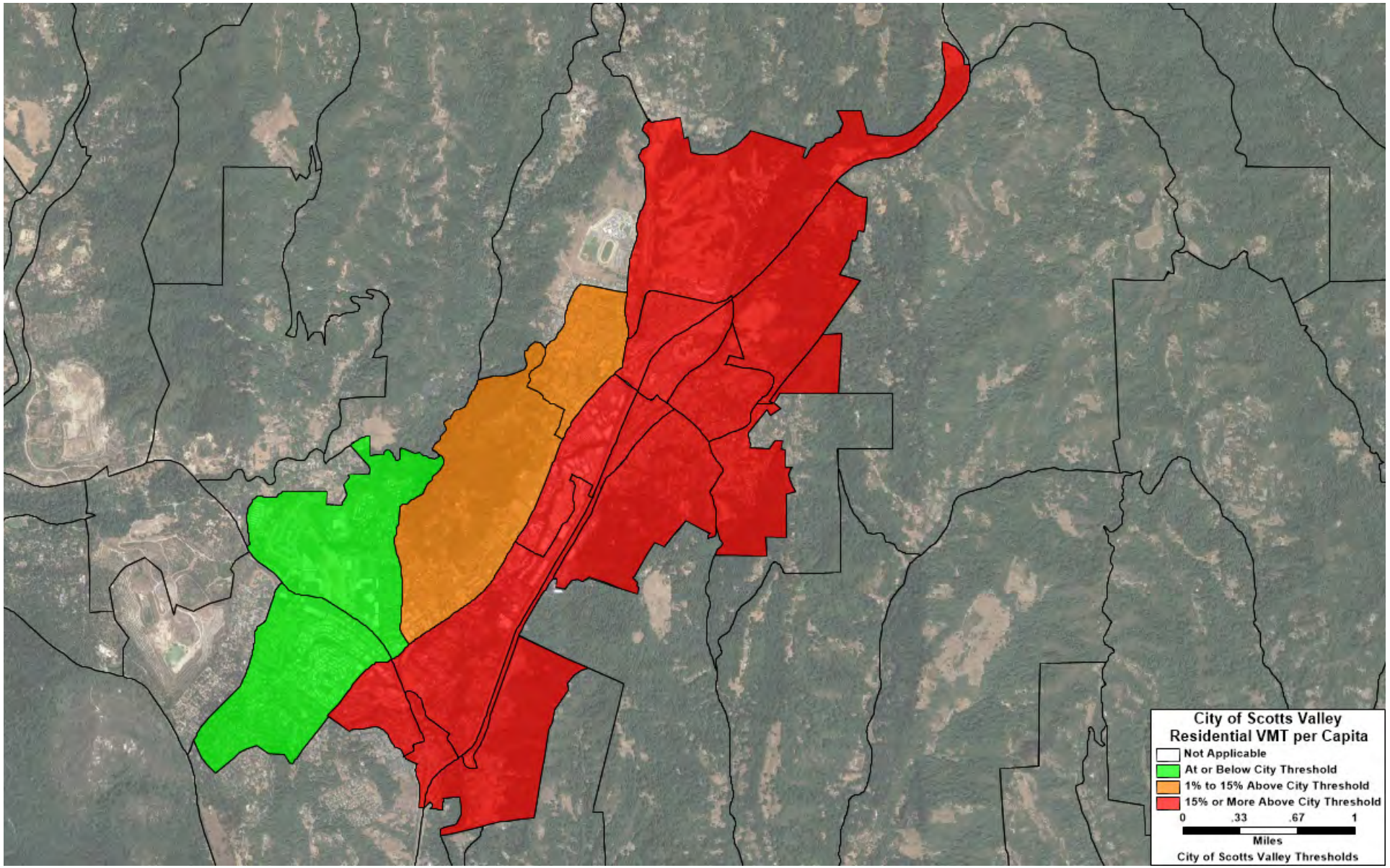
driveway to observe oncoming eastbound vehicles along Mt. Hermon Road, and therefore impacts would be less than significant.

### 16.5.1 Level of Significance after Mitigation

Table 16-1: Summary of Impacts and Mitigation Measures – Transportation summarizes the environmental impacts, significance determinations, and mitigation measures for the project with regard to transportation.

**Table 16-1: Summary of Impacts and Mitigation Measures – Transportation**

| Impact | Impact Significance | Mitigation |
|---|---|---|
| Impact TR-1: Exceed VMT Thresholds | Less than Significant | None required |
| Impact TR-2: Substantially increase hazards due to a design feature or incompatible use. | Less than Significant | None required |



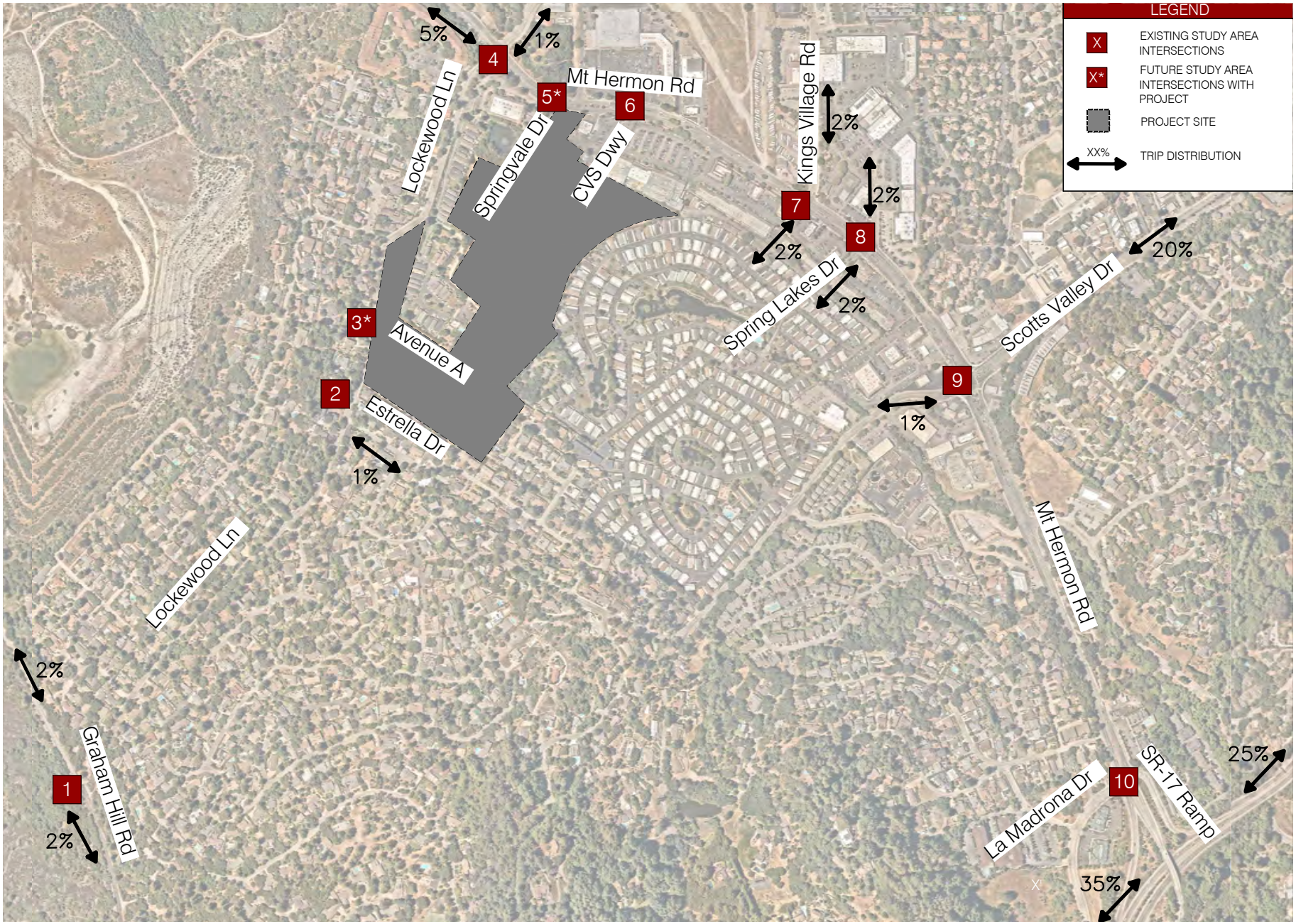

Source: Kimley-Horn, 2024

**Figure 16-1: Baseline Residential VMT per Capita**

Valley Gardens
*EIR*

Not to scale

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Expect More. Experience Better.



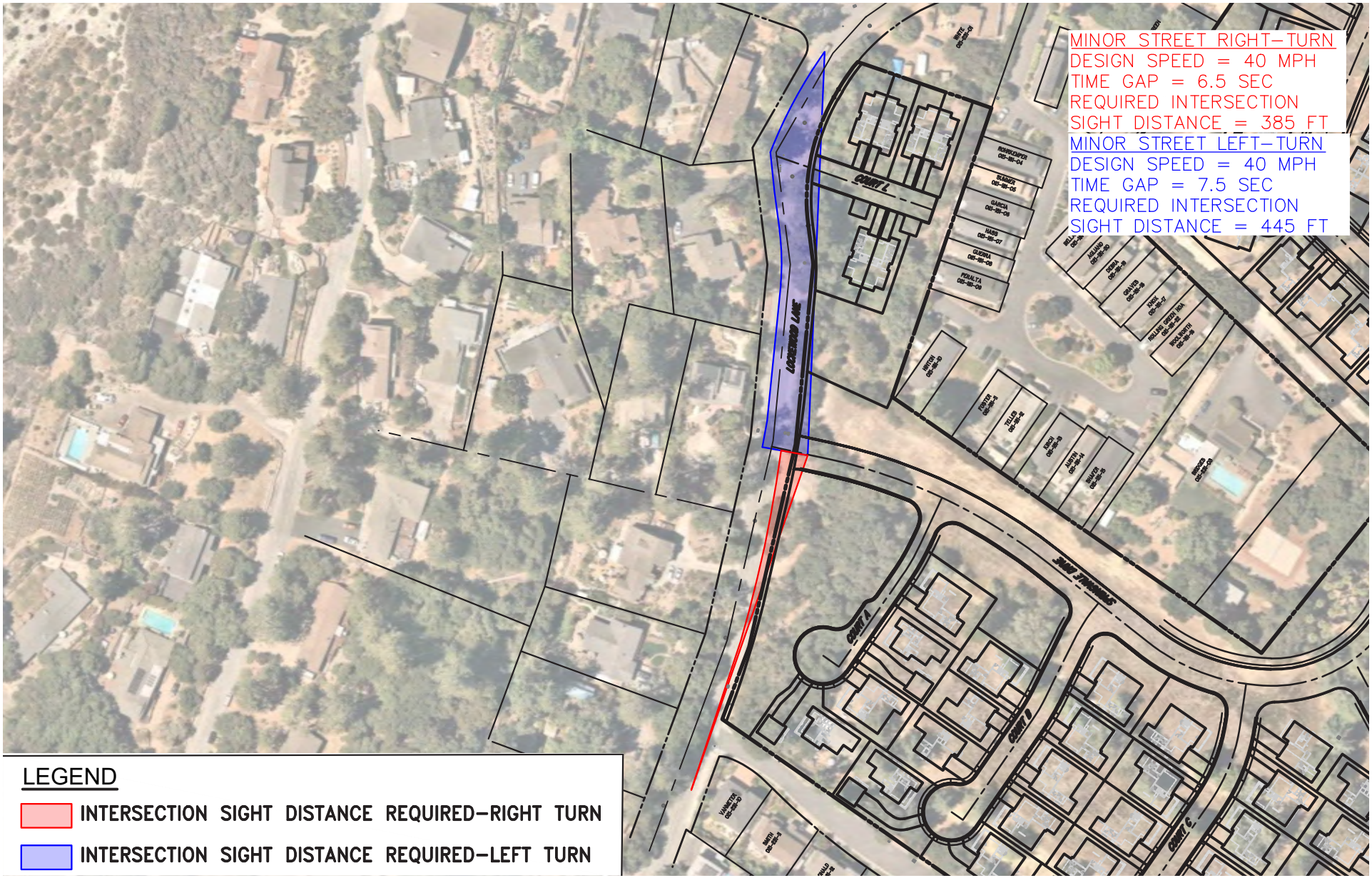

Source: Kimley-Horn, 2024

**Figure 16-2: Study Intersections and Trip Distribution**

Valley Gardens
*EIR*

Not to scale

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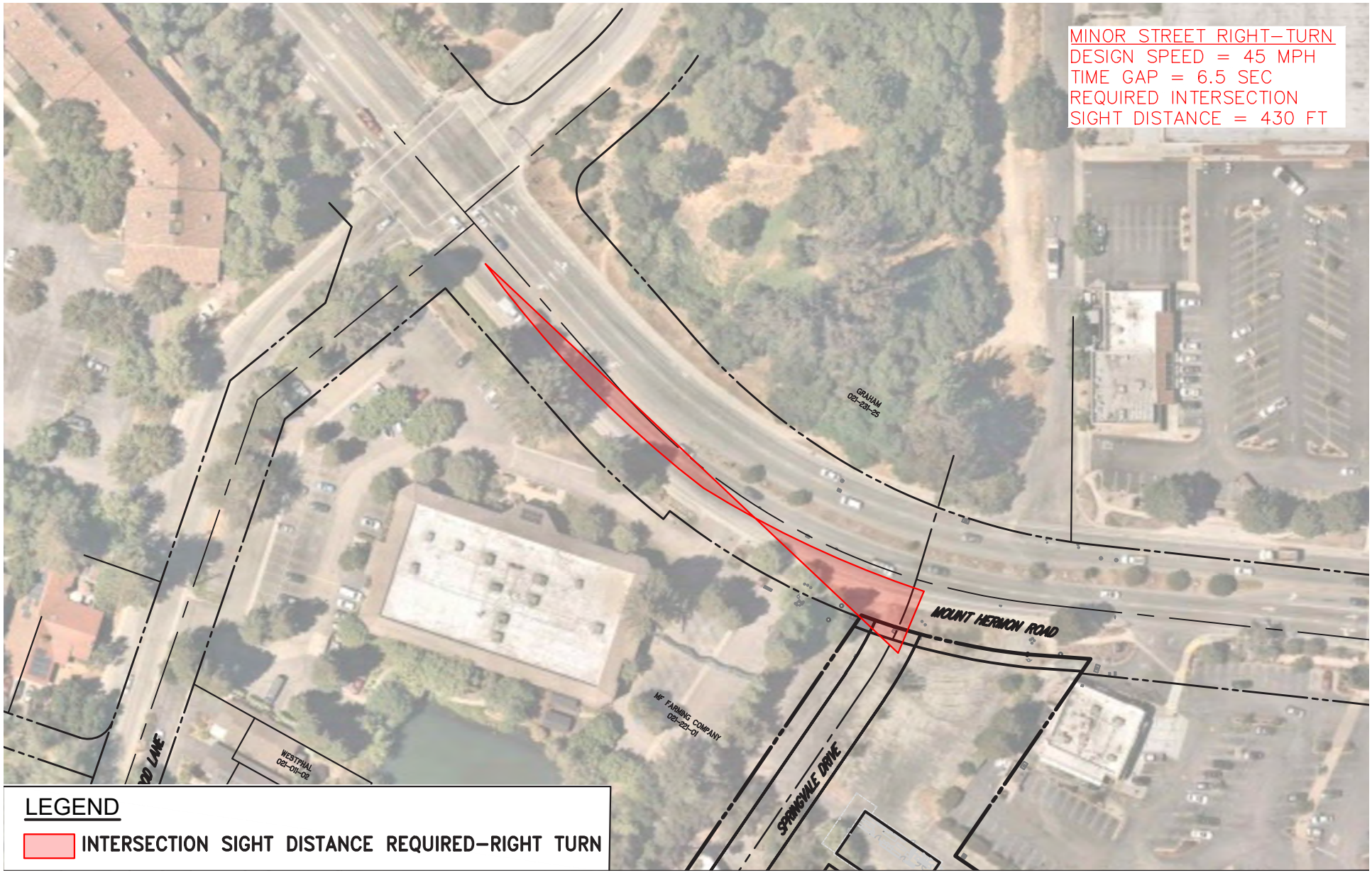

Source: Kimley-Horn, 2024

**Figure 16-3: Intersection #3 Sight Distance**

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*EIR*

Not to scale

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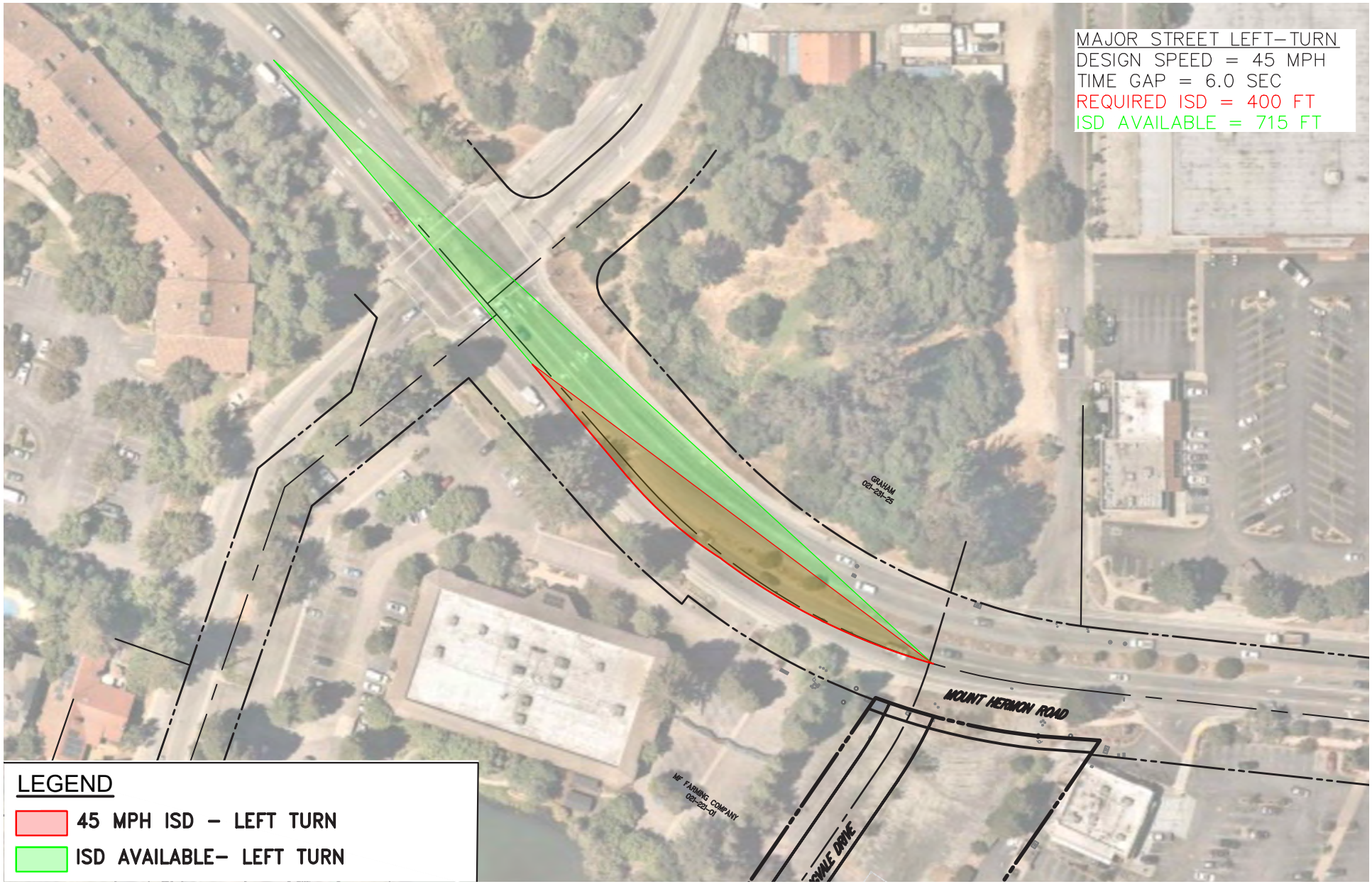

Source: Kimley-Horn, 2024

**Figure 16-4: Intersection #5 Sight Distance**

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*EIR*

Not to scale

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Source: Kimley-Horn, 2024

**Figure 16-5: Intersection #5 Inbound Sight Distance**

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Not to scale

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## 16.6 Level of Service Analysis

An impact analysis for the following level of service analysis is not required by CEQA. Instead, it is provided for informational purposes to evaluate consistency with the Draft General Plan (2021) polices, in particular:

M-3.9 **Level of Service Standard**. To help ensure a safe and efficient roadway network, maintain the established level of service C or better at intersections throughout Scotts Valley; except for Scotts Valley Drive at Mt. Hermon Road and Granite Creek Road at Scotts Valley Drive, which shall be required to maintain a level of service D or better. Utilize these standards as the basis for maintaining a nexus between the City's transportation impact fees and proposed development projects.

M-3.10 **Lower Level of Service**. Consistent with the concept of Complete Streets and Goal 2 and its associated policies, consider accepting a lower level of service and greater congestion at major arterial intersections. Factors that should be considered include, but are not limited to; right-of-way constraints, the economic feasibility of roadway infrastructure improvements, environmental impacts, or other factors as deemed inconsistent with this General Plan, as determined by the City Council.

### City of Scotts Valley Criteria

As stated in the City of Scotts Valley *Guide for the Preparation of Traffic Impact Studies (2003)*, the City of Scotts Valley considers intersections with LOS C or better under "Existing Conditions" to be operating at an acceptable level. For intersections operating at LOS C or better under "Cumulative Conditions," a project would cause a deficiency if it would result in intersection operations of LOS D, LOS E, or LOS F. These criteria are applied to signalized intersections within the City's jurisdiction, as well as Caltrans intersections.

The Scotts Valley General Plan (2023) Mobility Element Policy M-3.9 has established a threshold of LOS C or better at intersections throughout Scotts Valley; except at Mt. Hermon Road/Scotts Valley Drive/Whispering Pines Drive and Granite Greek Road/Scotts Valley Drive, which shall be required to maintain a level of service D or better. Furthermore, Policy M-3.10 allows a lower level of service and greater congestion at major arterial intersections in some cases consistent with the concept of Complete Streets and Goal 2. Complete street factors that should be considered include, but are not limited to; right-of-way constraints, the economic feasibility of roadway infrastructure improvements, environmental impacts, or other factors as deemed inconsistent with this General Plan, as determined by the City Council. For signalized intersections that already operate at unacceptable (LOS D, E, or F) under "Existing Conditions" or "Cumulative Conditions," a project would cause a deficiency if congestion would worsen measurably at the intersection as a result of the project. For the purposes of this analysis, "worsen measurably" was considered as adding five or more seconds of delay.

For unsignalized intersection, a project would cause a deficiency if the intersection meets the peak hour signal warrant per California MUTCD.

#### Caltrans Criteria

In 2020, Caltrans published a Vehicle Miles Traveled-Focused Transportation Impact Study Guide, which did not include any LOS thresholds for significant impact. Therefore, the following LOS criterion is from the previously published 2002 Guide for the Preparation of Traffic Impact Studies:

- Change the LOS of a state highway roadway segment from acceptable operation (LOS A, B, or C) to deficient operation (LOS D, E, or F) or result in a change in LOS for a segment currently operating at a deficient level based on Caltrans significance criteria (Caltrans, 2002).

### 16.6.1 Study Intersections

The study intersections are those through which the majority of the project-generated traffic would traverse, and where potential traffic deficiencies would be most likely to occur. Study intersection selection criteria are based on City of Scotts Valley, which indicates that study intersections shall be selected based on the expected project-generated trips, assumed trip distribution, and engineering judgement.

As shown in Figure 16-2: Study Intersections & Trip Distribution, the following intersections were analyzed as part of the LOS traffic analysis:

1. Graham Hill Road/Lockewood Lane (Signalized)
2. Estrella Drive/Lockewood Lane (Unsignalized)
3. Springvale Drive (Project) /Lockewood Lane (Unsignalized)
4. Mt. Hermon Road/Lockewood Lane/Skypark Drive (Signalized)
5. Mt. Herman Road/Springvale Drive (Project) (Unsignalized)
6. Mt. Herman Road/Shopping Center Driveway/CVS Driveway (Signalized)
7. Mt. Herman Road/Kings Village Road (Signalized)
8. Mt. Herman Road/Spring Lakes Drive (Signalized)
9. Mt. Herman Road/Scotts Valley Drive/Whispering Pines Drive (Signalized)
10. Mt. Herman Road/La Madrona Drive/SB Highway 17 off-ramp (Signalized)

### 16.6.2 Traffic Analysis Methodology

#### Level of Service

Traffic conditions are measured by peak hour traffic volumes, level of service (LOS), and average delay. Peak hour volumes are the total number of cars during the peak hour in the morning (AM) or afternoon/evening (PM).

## Signalized Intersections

Signalized intersections were analyzed based on *Highway Capacity Manual 6* (HCM 6) methodology using Synchro Version 11 software. HCM 6 evaluates signalized intersection operations on the basis of average control delay time for all vehicles at the intersection. Control delay is the amount of delay that is attributed to the particular traffic control device at the intersection, and includes initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay.

Signal phasing at Mt. Hermon Road/La Madrona Drive/SR 17 Southbound off-ramps is non-standard. Due to HCM 6 methodology limitations, HCM 2000 methodologies were used to determine delays and LOS at this study intersection. The shared left-through northbound and southbound lanes at Mt. Hermon Road/Lockewood Lane/Skypark Drive, Mt. Hermon Road/ Scotts Valley Shopping Center, Mt. Hermon Road/Kings Village Road, and Mt. Hermon Road/Springs Lakes Drive resulted in HCM 6 reporting much higher delays than what was observed in the field and therefore the Synchro timing methodologies were used to determine delay and LOS at those study intersections.

Both the City of Scotts Valley and Caltrans endeavors to maintain a target LOS at signalized intersections at the transition between C and D (LOS C is acceptable and LOS D is unacceptable). These standards are identified in both the *City of Scotts Valley Traffic Impact Studies Guide (2003)* and the *Caltrans Guide for the Preparation of Traffic Impact Studies (2002)*.

## Unsignalized Intersections

LOS at unsignalized intersections is based on the HCM 6 methodologies using Synchro Version 11 software. This method is applicable for side-street or two-way stop-controlled (SSSC or TWSC) intersections. For two-way stop-controlled intersections, delay is calculated for each stop-controlled movement and for the uncontrolled left turns, if any, from the main street. The delay and LOS for the worst intersection approach are reported.

Both the City of Scotts Valley and Caltrans endeavors to maintain a target LOS at unsignalized intersections at the transition between C and D (LOS C is acceptable and LOS D is unacceptable). These standards are identified in both the *City of Scotts Valley Traffic Impact Studies Guide (2003)* and the *Caltrans Guide for the Preparation of Traffic Impact Studies (2002)*.

Table 16-2: Signalized and Unsignalized Intersection LOS Criteria summarizes the relationship between control delay and LOS for signalized and unsignalized intersections.

**Table 16-2: Signalized and Unsignalized Intersection LOS Criteria**

| Level of Service | Description | Average Control Delay (Seconds Per Vehicle) | |
|---|---|---|---|
| | | Signalized | Unsignalized |
| A | Operations with very low delay occurring with favorable traffic signal progression and/or short cycle lengths. | ≤ 10.0 | ≤ 10.0 |
| B | Operations with low delay occurring with good progression and/or short cycle lengths. | > 10.0 to 20.0 | > 10.0 to 15.0 |
| C | Operations with average delays resulting from fair progression and/or longer cycle lengths. Individual cycle failures begin to appear. | > 20.0 to 35.0 | > 15.0 to 25.0 |
| D | Operations with longer delays due to a combination of unfavorable progression, long cycle lengths, or high volume-to-capacity (V/C) ratios. Many vehicles stop and individual cycle failures are noticeable. | > 35.0 to 55.0 | > 25.0 to 35.0 |
| E | Operations with high delay values indicating poor progression, long cycle lengths, and high V/C ratios. Individual cycle failures are frequent occurrences. | > 55.0 to 80.0 | > 35.0 to 50.0 |
| F | Operations with delays unacceptable to most drivers occurring due to over-saturation, poor progression, or very long cycle lengths. | > 80.0 | > 50.0 |

Source: *Highway Capacity Manual*, Transportation Research Board, 2016

### Study Conditions

This LOS traffic analysis evaluates project conditions under the following traffic conditions:

1. Existing Conditions: Existing peak-hour traffic volumes on the existing roadway network. Existing traffic volumes were obtained from current AM and PM peak hour traffic counts.
1. Existing + Project Conditions: Projected peak hour traffic volumes are estimated by adding existing traffic volumes to Project generated traffic.
2. Cumulative Conditions: Cumulative conditions are future traffic volumes on the roadway network and based on cumulative approved projects.
3. Cumulative + Project Conditions: Forecasted peak hour traffic volumes are estimated by adding Cumulative traffic volumes to Project generated traffic.

## 16.6.3 Existing Conditions

Existing conditions lane geometry for study intersections are shown in Appendix H: Transportation Modelling Data & Analysis.

Existing conditions traffic counts at study intersections #4 and #6 through #10 were taken from the Scotts Valley General Plan Draft Update, which were collected on October 11, 2018. Study intersections #1 and #2 were not analyzed in the General Plan, therefore, counts were collected on January 25, 2022 (when local schools were in session) from 7:00am to 9:00am and 4:00pm

to 6:00pm. The through volumes at intersection #3 and #5 (project driveways) were balanced from adjacent intersection volumes. Traffic volumes collected were adjusted to account for the disruption caused by the novel coronavirus (COVID-19) by comparing the collected north leg entering volumes at Lockewood Lane/Estrella Drive to the south leg exiting volumes at Mt. Hermon Road/Lockewood Lane/Skypark Drive from the General Plan.

Existing conditions traffic volumes at study intersections are shown in Appendix H: Transportation Modelling Data & Analysis.

### 16.6.4 Trip Generation Estimates

Trip generation estimates were prepared for weekday traffic conditions (worst case). In determining project trip generation, the magnitude of traffic accessing and departing the project site is estimated for the AM and PM peak hours. Through empirical research, data have been collected that correlate common land uses with their propensity for producing traffic. Thus, for the most common land uses there are standard trip generation rates that can be applied to help predict the traffic increases that would result from a new development.

Project trip generation was estimated by applying the proposed size and uses of the development to the appropriate trip generation rates published in the *Institute of Transportation Engineers (ITE) Trip Generation Manual, 11th Edition (2021)*. Since the project includes complementary land uses, an internal capture reduction was taken to account for residents and restaurant patrons accessing the complimentary uses without creating additional vehicle trips. Internal capture was based on methodology from ITE *Trip Generation Handbook, 3rd Edition*.

As shown in Table 16-3: Project Trip Generation, the project would generate 1,974 net new daily trips, with 186 net new trips (69 in and 117 out) occurring during the AM peak hour and 188 net new trips (116 in and 72 out) occurring during the PM peak hour.

**Table 16-3: Project Trip Generation**

| Land Use | ITE Land Use Code | Units | Rate/Equation | Daily | AM (7:00-9:00) | | | PM (4:00-6:00) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | In | Out | Total | In | Out | Total |
| Single-Family Detached Housing | 210 | 111 DU | Daily: Ln(T)=0.92Ln(X)+2.68<br>AM: Ln(T)=0.91Ln(X)+0.12<br>PM: Ln(T)=0.94Ln(X)+0.27 | 1,111 | 20 | 62 | 82 | 69 | 41 | 110 |
| Single-Family Attached Housing | 215 | 30 DU | Daily: T=7.62(X)-50.48<br>AM: T=0.52(X)-5.70<br>PM: T=0.60(X)-3.93 | 178 | 2 | 8 | 10 | 8 | 6 | 14 |
| Multifamily Housing (Mid Rise) | 221 | 60 DU | Daily: T=4.54<br>AM: T=0.44(X)-11.61<br>PM: T=0.39(X)+0.34 | 272 | 3 | 12 | 15 | 14 | 10 | 24 |
| High-Turnover (Sit-Down) Restaurant | 932 | 4.1 ksf | Daily: 107.2<br>AM: 9.57<br>PM: 9.05 | 440 | 22 | 17 | 39 | 23 | 14 | 37 |
| Brewery/Taproom | 971 | 2.75 ksf | Daily: 61.69<br>AM: 0.68<br>PM: 9.83 | 170 | 2 | 0 | 2 | 16 | 11 | 27 |
| Coffee/Donut Shop without Drive-Through | 936 | 1.5 ksf | Daily[1]: -<br>AM: 9.57<br>PM: 9.05 | 480 | 71 | 69 | 140 | 24 | 24 | 48 |
| Subtotal | | | | 2,651 | 120 | 168 | 288 | 154 | 106 | 260 |
| *Internal Capture: Residential[2,3]* | | | | *-219* | *-1* | *-16* | *-17* | *-9* | *-9* | *-18* |
| *Internal Capture: Restaurant[2,3]* | | | | *-139* | *-16* | *-1* | *-17* | *-9* | *-9* | *-18* |
| *Pass-by: High-Turnover (Sit-Down) Restaurant (Daily[4]:21%, AM: 0%, PM: 43%)* | | | | *-80* | - | - | - | *-8* | *-4* | *-12* |
| *Pass-by: Coffee/Donut Shop without Drive Through[5] (Daily[4]:53%, AM: 50%, PM: 55%)* | | | | *-239* | *-34* | *-34* | *-68* | *-12* | *-12* | *-24* |
| **Total** | | | | **1,974** | **69** | **117** | **186** | **116** | **72** | **188** |

Notes:

1. Daily rate not provided by ITE. PM trips were assumed to be 10% of the daily trips.
2. Internal capture for AM and PM Peak hours were calculated using methodology in ITE *Trip Generation Handbook, 3rd Edition*.
3. Daily internal capture assumed average percentage for AM and PM peak hour.
4. Daily pass-by assumed average percentage for AM and PM peak hour.
5. Pass-by rates not provided for ITE Land Use 936: Coffee/Donut Shop without Drive-Through. Pass-by rates for ITE Land Use 934: Fast-Food Restaurant with Drive-Through Window used.

Source: Kimley-Horn & Associates, 2023.

### 16.6.5 Trip Distribution

Project trip distribution estimates the origins and destinations to and from which the project trips would travel. The directional distribution of project-generated traffic to and from the site was developed based on existing traffic patterns, recent transportation impact analyses, and knowledge of the study area. Figure 16-2: Study Intersections & Trip Distribution shows the

distribution of project trips throughout the study area. The peak hour trips generated by the proposed uses are assigned to the roadway system by the model at each study location.

### 16.6.6 Trip Assignment

In the project trip assignment, the project trips are assigned to specific streets and intersections. Trips attributed to the restaurant use were all assigned to the driveway on Mt. Hermon Road. Trips attributed to the residential use were assigned to both project driveways: one on Lockewood Lane and one on Mt. Hermon Road.

Project trip assignments to the network are shown in Appendix H: Transportation Modelling Data & Analysis for Existing and Existing Plus Project conditions.

### 16.6.7 Existing and Existing + Project Conditions

As shown in Table 16-4: Existing and Existing + Project Transportation Delay & LOS, all study intersections operate at acceptable levels of service under the "Existing + Project Conditions" during the weekday AM and PM peak hours.

Intersections #7, #8, and #9 improve with the addition of the project in the AM peak hour and intersection #7 improves with the addition of the project in the PM peak hour as well. This is due to the increase in volume in westbound through and eastbound through movements along Mt. Hermon Road. Through movements typically have less delay than the average intersection delay; therefore, an increase in through movement volume would lower the average intersection delay.

**Table 16-4: Existing and Existing + Project Transportation Delay & LOS**

| # | Intersection | LOS Criteria | Jurisdiction | Control[1] | Existing | | | | Existing Plus Project | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AM Peak | | PM Peak | | AM Peak | | | PM Peak | | |
| | | | | | LOS | Delay[2] (sec) | LOS | Delay[2] (sec) | LOS | Delay[2] (sec) | Delay Var (sec) | LOS | Delay[2] (sec) | Delay Var (sec) |
| 1 | Graham Hill Rd & Lockewood Ln | C | City | Signal | B | 11.3 | B | 13.1 | B | 11.4 | 0.1 | B | 13.3 | 0.2 |
| 2 | Lockewood Ln & Estrella Dr | C | City | SSSC | A | 1.3 | A | 1.5 | A | 1.3 | 0 | A | 1.5 | 0.0 |
| | Worst Approach | C | City | SSSC | B | 11.2 | B | 11.2 | B | 11.3 | 0.1 | B | 11.3 | 0.1 |
| 3 | Lockewood Ln & Project Dwy | C | City | SSSC | Future Intersection | | | | A | 0.7 | - | A | 0.6 | - |
| | Worst Approach | C | City | SSSC | Future Intersection | | | | B | 10 | - | B | 10 | - |
| 4 | Lockewood Ln & Skypark Dr & Mt. Hermon Rd[3] | C | City | Signal | C | 22.8 | B | 14.9 | C | 23.1 | 0.3 | B | 15.2 | 0.3 |
| 5 | Mt. Hermon Rd & Project Dwy | C | City | SSSC | Future Intersection | | | | A | 1.7 | - | A | 0.8 | - |
| | Worst Approach | C | City | SSSC | Future Intersection | | | | C | 21.3 | - | B | 12.2 | - |
| 6 | Mt. Hermon Rd & Shopping Center / CVS Dwy[3] | C | City | Signal | A | 7.1 | B | 16.1 | A | 7.6 | 0.5 | B | 16.2 | 0.1 |
| 7 | Mt Hermon Rd & Driveway / Kings Village Rd[3] | C | City | Signal | B | 13.8 | B | 19.7 | B | 13.6 | -0.2 | B | 19.4 | -0.3 |
| 8 | Mt Hermon Rd & Springs Lakes Dr / Shopping Center[3] | C | City | Signal | B | 12.9 | B | 16.8 | B | 12.6 | -0.3 | B | 16.9 | 0.1 |
| 9 | Mt Hermon Rd & Scotts Valley Dr/Whispering Pines Dr | D | City | Signal | C | 30.7 | D | 37.6 | C | 29.4 | -1.3 | D | 37.6 | 0.0 |
| 10 | Mt Hermon Rd & La Madrona Dr / SR 17 Ramps[4] | C | Caltrans | Signal | C | 25.5 | C | 30 | C | 27.8 | 2.3 | C | 31.5 | 1.5 |

Note: Intersections that are operating below acceptable levels are shown in **BOLD**. Project caused deficiencies are shaded.

1 SSSC = Side Street Stop Control

2 The average control delay is reported for signalized intersections. The average control delay and the delay for the worst movement is reported for SSSC intersections.

3 Synchro LOS methodologies used to accurately reflect field conditions.

4 Analyzed using HCM 2000 due to non-standard phasing.

### 16.6.8 Roadway Improvements

#### Scotts Valley Short Term Capital Improvement Plan (CIP) Projects

There are no fully funded roadway improvement projects in the project study area that are expected to be completed in the near term. However, there is a future project in the City's Capital Improvement Plan to update the signal timings along Mt. Hermon Road to relieve traffic congestion.

### 16.6.9 Cumulative and Cumulative + Project Conditions

To evaluate "Cumulative + Project Conditions," it is necessary to develop a forecast of cumulative traffic volumes in the study area under "Cumulative Conditions" without the project. This forecast provides a basis against which to measure the project's effect on LOS. The City of Scotts Valley provided a Cumulative Projects list, which is included in Appendix H: Transportation Modelling Data & Analysis. The year 2030 was selected for analysis based on the cumulative buildout condition based on population growth projections, assumed in the Scotts Valley General Plan, which will affect future travel patterns in the study area and traffic volumes on the highways serving the project site.

Traffic volumes and project trips under "Cumulative Conditions" are based on the peak hour forecasts determined in collaboration with City of Scotts Valley staff and are shown Appendix H: Transportation Modelling Data & Analysis.

As shown in Table 16-5: Cumulative and Cumulative + Project Transportation Delay & LOS, all study intersections operate at acceptable levels of service under the "Cumulative + Project Conditions" during the weekday AM and PM peak hours with the exception of:

- Mt. Hermon Road/Kings Village Drive (Intersection #7)
  - Would operate at **LOS D** without the project and continue to operate at **LOS D** during PM peak hour
- Mt. Hermon Road/Springs Lakes Drive (Intersection #8)
  - Would degrade from acceptable LOS C without the project to an unacceptable **LOS D** during the PM peak hour.
- Mt. Hermon Road/Scotts Valley Drive/Whispering Pines Drive (Intersection #9)
  - Would operate at **LOS E** without the project and continue to operate at **LOS E** during PM peak hour
- Mt. Hermon Road/ La Madrona Drive-Hwy 17 SB Ramps (Intersection #10)
  - Would operate at **LOS D** without the project and continue to operate at **LOS D** during AM peak hour
  - Would degrade from unacceptable LOS D without the project to an unacceptable **LOS E** during the PM peak hour.

For all intersections above, the delay does not increase by 5 seconds and therefore are not considered project deficiencies, except for the following intersection:

- Mt. Hermon Road/Springs Lakes Drive (Intersection #8)
  - Would degrade from acceptable LOS C without the project to an unacceptable **LOS D** during the PM peak hour.
- Mt. Hermon Road/ La Madrona Drive-Hwy 17 SB Ramps (Intersection #10)
  - Would degrade from unacceptable LOS D without the project to an unacceptable **LOS E** during the PM peak hour.

### Mt. Hermon Road/Spring Lakes Drive

As shown in Table 16-5: Cumulative and Cumulative + Project Transportation Delay & LOS, the addition of project traffic to the intersection to Mt. Hermon Road/Springs Lakes Drive would result in an average delay increase from 26.9 to 39.4 seconds (a 12.5-second increase) during the PM peak hour, resulting in a change from an acceptable LOS C to unacceptable LOS D.

Given the fact that the existing right-of-way is fully utilized, future roadway improvements at this intersection are limited without acquiring additional right-of-way and making major modifications to the infrastructure, which would be prohibitively expensive. Because the construction of additional lanes is not feasible due to space limitations and the pedestrian and bicycle improvements, nor consistent with State and local Complete Street design principles; improving the LOS could be cost-effectively addressed by coordinating the Mt. Hermon Road/Scotts Valley Drive/Whispering Pines Drive traffic signal with the other traffic signals along Mt. Hermon Road from Mt. Hermon Road/Lockewood Lane/Skypark Drive west to the Mt. Hermon Road/La Madrona Drive/SR 17 Southbound off-ramp intersection; particularly during the AM and PM peak traffic periods.

Traffic signal timing involves determining the sequence of operation and assigning green time to each approach at an intersection while considering time for pedestrians and other users. Because the traffic signals on Mt. Herman Road are relatively closely spaced, they are considered “system” intersections. System intersections are usually closely spaced and any timing changes at one intersection have an effect on the upstream and downstream intersections. Signal system corridors are typically coordinated on a time-of-day basis for each associated peak period. The most common peak periods are the AM, PM, and midday. Typically, these peak periods are driven by traffic patterns or daily commutes by direction. AM and PM peaks may be associated with “inbound” or “outbound” traffic patterns.

The City’s Capital Improvement Plan includes a future project to update the signal timings along Mt. Hermon Road to relieve traffic congestion. Implementation of the recommended signal timing devices from Mt. Hermon Road/Lockewood Lane/Skypark Drive to the Mt. Hermon Road/La Madrona Drive/SR 17 Southbound off-ramp intersection would improve operations to LOS C or better in AM and PM peak hours at the intersection of Mt. Hermon Road/Spring Lakes Drive. Table 16-6: Mitigated Cumulative + Project Transportation Delay & LOS shows mitigated LOS and control delay.

### Mt. Hermon Road/La Madrona Drive/SR 17 Southbound off-ramp

As shown in Table 16-5: Cumulative and Cumulative + Project Transportation Delay & LOS, the addition of project traffic to the intersection to Mt. Hermon Road/La Madrona Drive/SR 17 Southbound off-ramp (a Caltrans facility) would result in an average delay increase from 51.4 to 58.1 seconds (a 6.7-second increase) during the PM peak hour, resulting in a change from an unacceptable LOS D to unacceptable LOS E.

To improve this deficiency, it is recommended that an additional southbound right turn lane be implemented. This mitigation has been identified in the *Scotts Valley Town Center Specific Plan EIR.* This improvement would improve operations to LOS C in the PM peak hour at the intersection of Mt. Hermon Road/La Madrona Drive/SR 17 Southbound off-ramp. Table 16 6: Cumulative + Project (Improvement) Transportation Delay & LOS shows mitigated LOS and control delay.

**Table 16-5: Cumulative and Cumulative + Project Transportation Delay & LOS**

| # | Intersection | LOS Criteria | Jurisdiction | Control[1] | Cumulative | | | | Cumulative Plus Project (LT) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AM Peak | | PM Peak | | AM Peak | | | PM Peak | | |
| | | | | | LOS | Delay[2] (sec) | LOS | Delay[2] (sec) | LOS | Delay[2] (sec) | Delay Var (sec) | LOS | Delay[2] (sec) | Delay Var (sec) |
| 1 | Graham Hill Rd & Lockewood Ln | C | City | Signal | B | 12.8 | C | 25.1 | B | 12.9 | 0.1 | C | 26 | 0.9 |
| 2 | Lockewood Ln & Estrella Dr | C | City | SSSC | A | 1.1 | A | 1.2 | A | 1.1 | 0.0 | A | 1.2 | 0.0 |
| | Worst Approach | C | City | SSSC | B | 12.6 | B | 13.2 | B | 12.8 | 0.2 | B | 13.3 | 0.1 |
| 3 | Lockewood Ln & Project Dwy | C | City | SSSC | Future Intersection | | | | A | 0.5 | - | A | 0.4 | - |
| | Worst Approach | C | City | SSSC | Future Intersection | | | | B | 11 | - | B | 10.9 | - |
| 4 | Lockewood Ln & Skypark Dr & Mt. Hermon Rd[3] | C | City | Signal | C | 24.5 | B | 19.1 | C | 24.9 | 0.4 | B | 19.4 | 0.3 |
| 5 | Mt. Hermon Rd & Project Dwy | C | City | SSSC | Future Intersection | | | | A | 1.8 | - | A | 0.7 | - |
| | Worst Approach | C | City | SSSC | Future Intersection | | | | D | 25.5 | - | B | 14.2 | - |
| 6 | Mt. Hermon Rd & Shopping Center / CVS Dwy[3] | C | City | Signal | A | 9.6 | C | 22.2 | B | 10.4 | 0.8 | C | 23.4 | 1.2 |
| 7 | Mt Hermon Rd & Driveway / Kings Village Rd[3] | C | City | Signal | B | 15.9 | **D** | **45.7** | B | 16 | 0.1 | **D** | **49.7** | **4.0** |
| 8 | Mt Hermon Rd & Springs Lakes Dr / Shopping Center[3] | C | City | Signal | B | 12 | C | 26.9 | B | 12 | 0.0 | **D** | **39.4** | **12.5** |
| 9 | Mt Hermon Rd & Scotts Valley Dr/Whispering Pines Dr | D | City | Signal | D | 38.1 | **E** | **76.4** | D | 38.8 | 0.7 | **E** | **78.9** | **2.5** |
| 10 | Mt Hermon Rd & La Madrona Dr / SR 17 Ramps[4] | C | Caltrans | Signal | **D** | **37.7** | **D** | **51.4** | **D** | **40.9** | **3.2** | **E** | **58.1** | **6.7** |

Note: Intersections that are operating below acceptable levels are shown in BOLD. Project caused deficiencies are shaded.

1 SSSC = Side Street Stop Control

2 The average control delay is reported for signalized intersections. The average control delay and the delay for the worst movement is reported for SSSC intersections.

3 Synchro LOS methodologies used to accurately reflect field conditions.

4 Analyzed using HCM 2000 due to non-standard phasing.

**Table 16-6: Cumulative + Project (Improvement) Transportation Delay & LOS**

| # | Intersection | LOS Criteria | Cumulative Plus Project | | | Cumulative Plus Project (Improvement) | | |
|---|---|---|---|---|---|---|---|---|
| | | | PM Peak | | | PM Peak | | |
| | | | LOS | Delay[1] (sec) | Delay Var (sec) | LOS | Delay[1] (sec) | Delay Var (sec) |
| 8 | Mt. Hermon Rd/Springs Lakes Dr/Shopping Center[2] | C | **D** | **39.4** | **8.1** | C | 34.4 | 7.5 |
| 10 | Mt Hermon Rd & La Madrona Dr / SR 17 Ramps[3] | C | **E** | **58.1** | **6.7** | C | 33.9 | 17.5 |

Notes: Intersections that are operating below acceptable levels are shown in BOLD. Project caused deficiencies are shaded.
1. The average control delay is reported for signalized intersections. The average control delay and the delay for the worst movement is reported for SSSC intersections.
2. Synchro LOS methodologies used to accurately reflect field conditions.
3. Analyzed using HCM 2000 due to non-standard phasing.

### 16.6.10 Vehicle Queuing

Vehicle queuing that exceeds a turn pocket length can create potentially hazardous conditions by blocking or disrupting through traffic in adjacent travel lanes. The effect of vehicle queuing was analyzed by reporting the 95th percentile queues for turning movements where the project would add trips to existing or proposed turn pockets. The 95th percentile is defined as the queue length that has only a 5 percent probability of being exceeded during the analysis time period. The following movements were evaluated:

- Intersection #1 – Graham Hill Road/Lockewood Lane (eastbound left, westbound left, northbound right, southbound right)
- Intersection #4 – Mt. Hermon Road/Lockewood Lane/Skypark Drive (eastbound left, westbound left, northbound right, southbound right)
- Intersection #6 – Mt. Hermon Road/Shopping Center/CVS Dwy (eastbound left, westbound left, westbound right, northbound right, southbound right)
- Intersection #7 – Mt. Hermon Road/Kings Village Road (eastbound left, westbound left, westbound right, northbound right, southbound right)
- Intersection #8 – Mt. Hermon Road/Springs Lakes Drive (eastbound left, westbound left, northbound right, southbound right)
- Intersection #9 – Mt. Hermon Road/Scotts Valley Drive/Whispering Pines Drive (eastbound left, westbound left, westbound right, northbound left, northbound right, southbound left)
- Intersection #10 – Mt. Hermon Road/La Madrona Drive/SR 17 Ramps (eastbound right, westbound left, northbound left, northbound right, southbound right)

The 95th percentile queue lengths are summarized in Table 16-7: Vehicle Queuing.

### Table 16-7: Vehicle Queuing

| # | Intersection | Control | Movement | Storage Length (ft) | Existing | | Existing Plus Project | | Cumulative | | Cumulative Plus Project | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AM Peak | PM Peak | AM Peak | PM Peak | AM Peak | PM Peak | AM Peak | PM Peak |
| 1 | Graham Hill Rd/Lockewood Ln | Signal | EBL | 295 | 80 | 103 | 81 | 106 | 113 | 144 | 115 | 147 |
| | | | SBR | 70 | <25 | 37 | <25 | 37 | 29 | 52 | 31 | 53 |
| 4 | Mt. Hermon Rd/Lockewood Ln/Skypark Dr | Signal | EBL | 170 | <25 | 26 | <25 | 26 | <25 | 43 | <25 | 43 |
| | | | WBL | 160 | **189** | **220** | **195** | **231** | **214** | **300** | **220** | **297** |
| | | | NBR | 60 | 59 | 55 | 60 | 56 | 72 | 65 | 84 | 67 |
| | | | SBR | 130 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| 6 | Mt. Hermon Rd/Shopping Center/CVS Dwy | Signal | EBL | 70 | 56 | 71 | 49 | 89 | 66 | 70 | 90 | 100 |
| | | | WBL | 140 | 72 | 65 | 71 | 62 | 76 | 55 | 75 | 54 |
| | | | WBR | 105 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| | | | NBR | 40 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| | | | SBR | 30 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| 7 | Mt. Hermon Rd/Driveway/Kings Village Rd | Signal | EBL | 175 | 162 | **244** | 163 | **249** | 170 | **273** | 162 | **274** |
| | | | WBL | 150 | 52 | 151 | 52 | 144 | 53 | 114 | 50 | 110 |
| | | | WBR | 130 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| | | | NBR | 30 | <25 | 40 | <25 | 40 | <25 | 41 | <25 | 41 |
| | | | SBR | 50 | 41 | **163** | 42 | **165** | 45 | **306** | 45 | **311** |
| 8 | Mt. Hermon Rd/Springs Lakes Dr/Shopping Center | Signal | EBL | 80 | 80 | 102 | 80 | 103 | 67 | 85 | 66 | 83 |
| | | | WBL | 185 | 79 | 55 | 77 | 53 | 66 | 48 | 61 | 47 |
| | | | NBR | 30 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| | | | SBR | 30 | <25 | 55 | <25 | 57 | <25 | 55 | <25 | <25 |
| 9 | Mt. Hermon Rd/Scotts Valley Dr/Whispering Pines Dr | Signal | EBL | 300 | 246 | 258 | 259 | 271 | 307 | **476** | **329** | **491** |
| | | | WBL | 275 | 155 | 286 | 154 | 286 | 163 | 288 | 158 | 288 |
| | | | WBR | 100 | 96 | **202** | 96 | **209** | 123 | **270** | 121 | **272** |
| | | | NBL | 190 | 99 | 173 | 99 | 175 | 112 | **234** | 112 | **236** |
| | | | NBR | 150 | 62 | <25 | 62 | <25 | 63 | 15 | 65 | <25 |
| | | | SBL | 220 | 233 | 234 | 234 | 234 | **291** | **330** | **293** | **330** |
| 10 | Mt. Hermon Rd/La Madrona Dr/SR 17 Ramps | Signal | EBR | 100 | <25 | 48 | <25 | 47 | 35 | 80 | 35 | 80 |
| | | | WBL | 190 | 122 | 143 | 122 | 152 | 193 | **278** | 193 | **278** |
| | | | NBL | 130 | 94 | 71 | 95 | 74 | 109 | 105 | 109 | 105 |
| | | | NBR | 180 | 65 | 27 | 65 | 27 | 73 | 69 | 93 | 69 |
| | | | SBR | 350 | 155 | **438** | 175 | **480** | 220 | **590** | 239 | **648** |

Note: NBL=northbound left, NBR=northbound right, SBL=southbound left, SBR=southbound right, EBL=eastbound left, EBR=eastbound right, WBL=westbound left, WBR=westbound right
Queues exceeding available storage by greater than 25 feet are shown in bold.
Deficient queues that increase by more than 25 feet under project conditions are shaded.

The project increases the queue by more than one vehicle length (i.e., 25 feet or more) for the following movements:

- Intersection #10 – Mt. Hermon Road/La Madrona Drive/SR 17 Ramps (southbound right)

Since intersection #10 is within Caltrans jurisdiction, the SR 17 southbound off-ramp was analyzed to determine whether the off-ramp vehicle queue would extend past the ramp into the freeway mainline, causing unsafe conditions. Assuming that the design speed at the node of the ramp is 50 miles per hour, the length to stop is 435 feet according to Table 405.2B in the Caltrans Highway Design Manual. The existing total ramp length is 840 feet. By subtracting the length to stop, the storage length available on the ramp is calculated to be 405 feet. The addition of the project will cause the deficient southbound right turn queue at Mt. Hermon Road/La Madrona Drive/SR 17 Ramps to increase by 45 feet in the PM peak hour in the Existing plus Project scenario and 210 feet in the PM peak hour in the Cumulative plus Project scenario.

To improve this deficiency, it is recommended that an additional southbound right turn lane be implemented. This mitigation has been identified in the *Scotts Valley Town Center Specific Plan EIR.* The additional southbound right-turn lane would reduce the southbound right-turn queue to 252 feet, which would be contained within the 350-foot turn pocket and the 405-foot storage length.

Queuing analysis calculation sheets are provided in Appendix H: Transportation Modelling Data & Analysis.

### 16.6.11 Development Impact Fees

In March of 2010, the City Council adopted the following fair share contribution requirement, which will be included as a condition of approval for any future Planned Development permit for the project site:

“Any project which meets the trip generation threshold of an additional five peak hour trips in both AM and PM peak hours at Mt. Hermon Road/Scotts Valley Drive, or five additional PM peak hour trips at Mt. Hermon Road/La Madrona Drive will be conditioned to pay, in addition to all regular impact fees, the additional fees as follows:

- $240 per peak hour trip (the sum of AM and PM trips) for improvements to Mt. Hermon Road/Scotts Valley Drive/Whispering Pines Drive.
- $712 per PM peak hour trip for improvements to Mt. Hermon Road/La Madrona Drive.

The project generates 157 AM peak hour trips and 152 PM peak hour trips for a total of 309 peak hour trips at Mt. Hermon Road/Scotts Valley Drive/Whispering Pines Drive, which equates to an impact mitigation payment of $74,160 (309 peak hour trips x $240 per peak hour trip) for improvements to Mt. Hermon Road/Scotts Valley Drive/Whispering Pines Drive. The project generates 113 PM peak hour trips at Mt. Hermon Road/La Madrona Drive, which equates to

$80,456 (113 peak hour trips x $712 per peak hour trip) for improvements to Mt. Hermon Road/La Madrona Drive. These impact mitigation fees are payable to the City prior to issuance of the first building permit. Additionally, the project will be required to pay a city-wide development impact fee, a portion of which is allocated to roadway improvements. Payment by the applicant of their fair-share traffic impact mitigation fee and other City improvement fees would help fund other improvements such as traffic signal controllers, which would improve the LOS.

## 16.7 References

Caltrans (California Department of Transportation). 2002. Guide for the Preparation of Traffic Impact Studies. Available at: http://www.dot.ca.gov/hq/tpp/offices/ocp/igr_ceqa_files/tisguide.pdf

Caltrans (California Department of Transportation). 2020. Highway Design Manual. Available at: https://dot.ca.gov/-/media/dot-media/programs/design/documents/hdm-complete-12312020a11y.pdf

City of Scotts Valley. 2003. Guide for the Preparation of Traffic Impact Studies. Available at: http://www.scottsvalley.org/downloads/public_works/Traffic_Impact_Studies%20Guide.pdf

City of Scotts Valley. 2012. Bicycle Transportation Plan. Available at: http://www.scottsvalley.org/downloads/public_works/BicycleTransportationPlan.2012.pdf

City of Scotts Valley. November 2023. Analyzing Vehicle Miles Traveled for CEQA Compliance. Prepared by Kimley-Horn and Associates.

# 17 Alternatives

This section describes the CEQA requirements related to alternatives and describes the process used to define alternatives to the project. It describes an alternative to the project and provides a comparative analysis for the alternative to the project. It also describes the alternatives that were considered but eliminated from detailed evaluation. It includes the evaluation of the No Project Alternative, as required by CEQA and a comparison of alternatives. Finally, it identifies the environmentally superior alternative.

## 17.1 CEQA Requirements for Alternatives

CEQA requires that an EIR "…describe a reasonable range of alternatives to the project, or to the location of the project, which would feasibly attain most of the basic objectives of the project but would avoid or substantially lessen any of the significant effects of the project and evaluate the comparative merits of the alternatives. An EIR need not consider every conceivable alternative to a project. Rather it must consider a reasonable range of potentially feasible alternatives that will foster informed decision making and public participation." (CEQA Guidelines §15126.6(a))

To comply with this requirement, the City evaluated possible alternatives based on the following factors:

- Does the alternative accomplish most of the basic project objectives?
- Is the alternative potentially feasible (from economic, environmental, legal, social, technological standpoints)?
- Does the alternative avoid or substantially lessen any significant effects of the project? Alternatives need be environmentally superior to the project in only some, not all, respects.
- Is the alternative reasonable and realistic? An EIR need not consider an alternative whose effect cannot reasonably be ascertained or whose implementation is remote and speculative, because unrealistic alternatives do not contribute to a useful analysis.

Each of these requirements is described in more detail in the following sections.

It is noted that in the case of the Aviza project, the unique characteristics of the project site and its location limit the range of alternatives that may be considered.

## 17.2 Consistency with Project Objectives

The basic purpose of an EIR's discussion of alternatives is to suggest ways project objectives might be achieved at less environmental cost. Accordingly, alternatives must be able to implement most project objectives, but they need not be able to implement all of them. As stated in the CEQA Guidelines, the EIR's alternatives analysis should focus on alternatives that can eliminate or reduce significant environmental impacts even if they would impede

attainment of project objectives to some degree or be costlier (14 Cal Code Regs §15126.6(b)). The alternatives discussed must, however, be able to attain most of the basic objectives of the project (14 Cal Code Regs §15126.6(a)). The applicant has identified the following key project objectives:

1. Provide a balanced mix of residential and commercial uses that integrate into the existing urban setting.
2. Create a high-quality development that is visually and aesthetically compatible with adjacent land uses.
3. Expand and improve the City's housing supply in support of the City's Regional Needs Housing Allocation (RHNA) as described in the City's General Plan Housing Element.
4. Provide affordable and market-rate housing consistent with the City of Scotts Valley General Plan Housing Element goals and policies.
5. Provide a mix of residential and commercial uses that achieves a financially feasible project.
6. Locate commercial and residential uses where such uses can take advantage of existing infrastructure and utilities.
7. Provide and improve pedestrian connections within the project site and adjacent arterial streets to facilitate pedestrian activity between neighborhoods and within the development.

The determination of whether to eliminate or retain alternatives in this EIR was based on the alternatives' ability to meet most of these objectives, even if the alternatives may be costlier.

## 17.3 Potential Feasibility

CEQA requires that an EIR analyze alternatives that are potentially feasible. Among the factors that may be considered when addressing the potential feasibility of alternatives include site suitability, economic viability, availability of infrastructure, general plan consistency, other plans or other regulatory limitations, jurisdictional boundaries, and proponent's control over alternative sites in determining the range of alternatives to be evaluated in the EIR (14 Cal. Code Regs 15126.6(f)(1)). The potential feasibility of potential alternatives considers the following factors:

**Economic Feasibility**. Is the additional cost of the alternative or lost profits from the alternative sufficiently severe to render it impractical and not feasible? Alternatives that are capable of eliminating or reducing significant environmental effects even though they may be costlier must be considered (14 Cal. Code Regs 15126.6(b)). However, if the additional costs of implementing an alternative or lost profitability associated with an alternative are sufficiently severe, then these factors may render the alternative impractical or economically infeasible.

**Legal Feasibility**. Are there legal constraints to implementing the alternative? For example, constructing the project on an alternative site may not be legally feasible if the applicant does

not own the project site or applicable land use regulations or property restrictions prohibit the project. For example, the project may not be legally permissible in wilderness areas, wilderness study areas, restricted military bases, airports, and Indian reservations or on property that is not zoned to allow such a use. Any potential legal constraints affecting an alternative are identified based on a review of applicable local, State, and federal laws, regulations, plans, and policies.

**Social Feasibility**. Would the alternative cause significant damage to the socioeconomic structure of the community and be inconsistent with important community values and needs? Similar to the environmental feasibility addressed below, this subject is primarily considered in regard to significant environmental effects.

**Technical Feasibility**. Is the alternative feasible from a technological perspective, considering available technology? Are there any construction, operation, or maintenance constraints that cannot be overcome?

## 17.4 Potential to Eliminate Significant Environmental Effects

A key CEQA requirement for an alternative is that it must have the potential to "avoid or substantially lessen any of the significant effects of the project" (CEQA Guidelines Section 16126.6(a)). If an alternative is identified that clearly does not have the potential to provide an overall environmental advantage as compared to the project, it is usually eliminated from further consideration. The significant environmental effects of the project are summarized in Table ES-1: Summary of Significant Impacts of the Project for significant and unavoidable impacts and significant impacts that can be mitigated.

## 17.5 Alternatives Evaluation Process

The City identified a range of alternatives based on the screening criteria set forth above. The City also considered oral and written comments received during the CEQA scoping process that recommended or identified potential project alternatives. The range of alternatives considered in the screening analysis encompasses:

- Potentially feasible alternatives that may have been identified during the public scoping process.
- Potentially feasible alternatives that the City has identified as a result of the independent review of the project impacts.

## 17.6 Alternatives Eliminated from Further Consideration

No alternatives were identified that were eliminated from further consideration.

## 17.7 No Project Alternative

In addition to studying a reasonable range of alternatives based on the criteria set forth above, CEQA requires the EIR to analyze a "no-project" alternative. Consideration of the No Project Alternative is required by Section 15126.6(e) of the CEQA Guidelines. The analysis of the No Project Alternative must discuss the existing conditions at the time the Notice of Preparation was published, as well as: "what would be reasonably expected to occur in the foreseeable future if the project were not approved, based on current plans and consistent with available infrastructure and community services" (CEQA Guidelines Section 15126.6 (e)(2)). The requirements also specify that: "If disapproval of the project under consideration would result in predictable actions by others, such as the proposal of some other project, this 'no project' consequence should be discussed" (CEQA Guidelines Section 15126.6 (e)(3)(B)).

#### Description

Under the No Project Alternative, the project site would remain vacant. The project site may or may not be redeveloped according to the provisions of Services Commercial General Plan land use designation and zoning district.

#### Ability to Meet Project Objectives

The No Project Alternative would not meet any of the project objectives.

#### Comparative Analysis of Environmental Impacts

The No Project Alternative would avoid all of the significant impacts of development pursuant to the project. Given that redevelopment of the project site is unlikely under the No Project Alternative, construction-related air pollutant and GHG emissions and noise impacts would not occur. Biological resources would be no further affected than they are under existing conditions. There would be no greater use of public services, utilities, and service systems. Transportation impacts associated with VMT would not occur.

## 17.8 Alternatives Retained for Analysis

### 17.8.1 Alternative A: Decreased Residential Development

#### Description

This alternative was previously proposed by the project applicant. As shown in Figure 17-1: Alterative A Site Plan, this alternative would be comprised of 115 residential dwelling units. This includes 91 one- and two-story single-family units and 24 duplex units. Additionally, 15 accessory dwelling units would be constructed over detached garages. There would be no muti-family residential associated with this alternative.

This alternative would include up to five retail buildings near Mt. Hermon Road totaling approximately 8,500 square feet of building space and up to 1,500 square feet of associated outdoor dining areas.

### Consistency with Project Objectives

This alternative would meet some of the project objectives. However, it would only partially meet the objectives to provide a sufficient amount of housing to help meet the City's Regional Needs Housing Allocation (RNHA) and provide affordable and market-rate housing.

### Comparative Analysis of Environmental Impacts

Construction and most operational impacts from this alternative would be similar to the project. No new or substantially greater or lesser impacts would occur as a result of this alternative.

Construction related impacts associated with air quality, greenhouse gas emissions, and noise would not change significantly as compared to the project. Impacts to biological resources and geology would be similar to the project as the same amount of area would be disturbed and any construction will be required to adhere to the final geotechnical report and construction codes.

The project site is located at or below the City's VMT threshold and therefore is "screened out" from further CEQA analysis related to the proposed residential development. Because the commercial uses would be local serving, it would not cause a significant VMT impact.

While the number of residential units would decrease, the project site is located in an existing urban area with existing infrastructure and utilities. As such, there would be no appreciable change in public services, utilities, and service systems as compared to the project.

In conclusion, impacts associated with this alternative would be similar to the project and all impacts could be reduced to less than significant.

## 17.9 Comparison of Alternatives

CEQA requires the following for alternatives analysis and comparison:

> The EIR shall include sufficient information about each alternative to allow meaningful evaluation, analysis, and comparison with the project. A matrix displaying the major characteristics and significant environmental effects of each alternative may be used to summarize the comparison. If an alternative would cause one or more significant effects in addition to those that would be caused by the project as proposed, the significant effects of the alternative shall be discussed, but in less detail than the significant effects of the project as proposed (CEQA Guidelines Section 15126.6(d)).

Table 17-1: Comparison of Significant Impacts: Project and Alternatives, shows the significant impacts of the project. For each significant impact identified, the table provides a comparison of the relative impact under the No Project Alternative and Alternative A.

**Table 17-1: Comparison of Significant Impacts: Project and Alternatives**

| Impact | Project | No Project Alternative | Alternative A: Decreased Residential Development |
|---|---|---|---|
| Impact AQ-2: Future construction activities would generate dust and exhaust emissions of criteria pollutants and toxic air contaminants | LTSM | NI | LTSM ⇩ |
| Impact AQ-6: Contribute to cumulatively considerable air quality impacts. | LTSM | NI | LTSM ⇩ |
| Impact BIO-1: Cause a direct or indirect adverse effect on special-status invertebrate species. | LTSM | NI | LTSM ⇩ |
| Impact BIO-2: Cause a direct or indirect adverse effect on native trees and associated nesting bird sites. | LTSM | NI | LTSM |
| Impact BIO-3: Contribute to cumulatively considerable effects on biological resources. | LTSM | NI | LTSM |
| Impact GEO-3: 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. | LTSM | NI | LTSM |
| Impact GEO-4: Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property | LTSM | NI | LTSM |
| Impact N-1: Cause a temporary or periodic increase in ambient noise levels during construction | LTSM | NI | LTSM |

| Impact | Project | No Project Alternative | Alternative A: Decreased Residential Development |
|---|---|---|---|
| that would substantially disturb sensitive receptors. | | | |
| Impact N-4: Contribute to cumulatively considerable noise impacts. | LTSM | NI | LTSM ⇩ |
| Impact PSU-5: Require the construction or expansion of new wastewater treatment facilities. | LTSM | NI | LTSM ⇩ |
| Impact TR-2: Substantially increase hazards due to a design feature or incompatible use. | LTSM | NI | LTSM |

LTS = Less than Significant
LTSM = Less than Significant with Identified Mitigation Measures
NI = No Impact
SI = Significant Impact
SU = Significant and Unavoidable Impact with Identified Mitigation Measures
⇧ = Impact of Greater Severity than Under the Proposed Project
⇩ = Impact with Lesser Severity than Under the Proposed Project

### 17.9.1 Environmentally Superior Alternative

In this section, the City of Scotts Valley has identified the Environmentally Superior Alternative, as required by CEQA Guidelines Section 15126.6(d) and (e)(2). Based upon the comparison above, the No Project Alternative would result in the fewest environmental impacts.

If the environmentally superior alternative is the No Project Alternative, CEQA requires identification of an environmentally superior alternative among the other alternatives (CEQA Guidelines Section 15126.6(e)(2)).

Pursuant to the CEQA Guidelines, Alternative A is the Environmentally Superior Alternative. This alternative would slightly, although not significantly reduce construction-related impacts to air quality, noise, and utilities. In addition, it would generate fewer peak-hour vehicular trips, and as a result reduce VMT, as compared to the project. However, Alternative A would not reduce the level of impact to such a degree that would alter the significance of any impact.




Source: Robson Homes, 2024

**Figure 17-1 Alternative A Decreased Residential Density Site Plan**

Valley Gardens
*EIR*

Not to scale

Kimley»Horn
Expect More. Experience Better.

# 18 Other CEQA Considerations

This section presents several topics required by CEQA: cumulative analysis, alternatives analysis, growth-inducing effects, significant irreversible commitment of resources, significant effects of the project, and energy conservation.

## 18.1 Growth-Inducing Effects

Section 15126.2(d) of the State CEQA Guidelines provides the following guidance on growth-inducing impacts: a project is identified as growth inducing if it "could foster economic or population growth, or the construction of additional housing, either directly or indirectly, in the surrounding environment."

A project can have direct and/or indirect growth-inducement potential. Direct growth inducement would result if a project involves construction of new housing. A project can have indirect growth-inducement potential if it would establish substantial new permanent employment opportunities (e.g., commercial, industrial or governmental enterprises) or if it would involve a substantial construction effort with substantial short-term employment opportunities and indirectly stimulate the need for additional housing and services to support the new employment demand.

Similarly, under CEQA, a project would indirectly induce growth if it would remove an obstacle to additional growth and development, such as removing a constraint on a required public service. Increases in population could tax existing community service facilities, requiring construction of new facilities that could cause significant environmental effects. The CEQA Guidelines also require analysis of the characteristics of projects that may encourage and facilitate other activities that could significantly affect the environment, either individually or cumulatively.

Based on an average population of 2.43 person / household [18], the project would result in an increase in population of 476 persons, which is well within the land use buildout capacity projections identified within the City of Scotts Valley General Plan (2023) as well as the Association of Monterey Bay Area Government's 2022 Regional Growth Forecast for population and housing in the City of Scotts Valley by 2040.

This population increase would not represent a substantial increase in housing and/or residents in the City. Furthermore, this amount of growth would be within existing growth projections for the City. Equally, the increase in population would not represent a substantial indirect growth inducement factor. Development on the project site would not propose new infrastructure that would induce substantial growth in the project site vicinity that was not previously considered

18 Per https://www.census.gov/quickfacts/scottsvalleycitycalifornia (2018-2022)

for development. Residential development on the project site, like other development in the project site vicinity, would connect to existing utilities and occur within an urbanized area adequately served by transportation systems and infrastructure.

## 18.2 Significant Irreversible Commitment of Resources

Section 15126.2(c) of the State CEQA Guidelines states that irreversible commitments of resources should be evaluated to assure that such consumption is justified. Uses of nonrenewable resources during the initial and continued phases of the project may be irreversible because a large commitment of such resources makes removal or nonuse thereafter unlikely, and certain types of impacts may commit future generations to similar uses.

### Changes that Commit Future Generations to Similar Uses

The project would change the current land use designation and zoning of the project site and commit future generations to similar land uses. Depending on market demand, the residential use could change or be replaced in the future. However, residential development, once constructed, is rarely replaced by new uses within the first few generations after construction.

### Use of Nonrenewable Resources

Construction of the project would consume natural resources (gasoline, sand and gravel, asphalt, oil, etc.) during construction activities. During operation of the residential units, energy would be consumed for lighting, heating/cooling, and transportation. Neither the construction nor operation would consume nonrenewable resources in amounts substantially different from or greater than typical urban development or similar land uses. The project would not affect agricultural resources or mineral resources or access to such resources. Therefore, the project would not involve a large commitment of nonrenewable resources.

### Irreversible Damage from Environmental Accidents

The project may include storage of hazardous materials, such as cleaning products and other products, which would not be regarded as sufficient to create a significant hazard to the public. All hazardous materials would be subject to existing storage, handling, and disposal regulations that limit the potential exposure to workers and the public.

## 18.3 Significant Effects that Cannot Be Avoided

### 18.3.1 Significant Direct Effects of the Project

There are no significant effects that cannot be avoided associated with the project. All significant impacts can be reduced to less than significant with mitigation.

### 18.3.2 Significant Cumulative Effects

As described in Chapter 16: Transportation and Circulation, project implementation would increase congestion and travel delays under cumulative conditions.

As shown in Table 16-4: Cumulative and Cumulative + Project Transportation Delay & LOS, the addition of project traffic to the intersection to Mt. Hermon Road/Springs Lakes Drive would result in an average delay increase from 26.9 to 39.4 seconds (a 12.5 second increase) during the PM peak hour, resulting in a change from an acceptable LOS C to unacceptable LOS D.

According to the traffic analysis, the City's Capital Improvement Plan includes a future project to update the signal timings along Mt. Hermon Road to relieve traffic congestion. Implementation of the recommended signal timing devices from Mt. Hermon Road/Lockewood Lane/Skypark Drive to the Mt. Hermon Road/La Madrona Drive/SR 17 Southbound off-ramp intersection would improve operations to LOS C or better in AM and PM peak hours at the intersection of Mt. Hermon Road/Spring Lakes Drive.

Additionally, the addition of project traffic to the intersection to Mt. Hermon Road/La Madrona Drive/SR 17 Southbound off-ramp (a Caltrans facility) would result in an average delay increase from 51.4 to 58.1 seconds (a 6.7-second increase) during the PM peak hour, resulting in a change from an unacceptable LOS D to unacceptable LOS E.

To improve this deficiency, it is recommended that an additional southbound right turn lane be implemented. This mitigation has been identified in the *Scotts Valley Town Center Specific Plan EIR.* This improvement would improve operations to LOS C in the PM peak hour at the intersection of Mt. Hermon Road/La Madrona Drive/SR 17 Southbound off-ramp. Table 16-5: Mitigated Cumulative + Project Transportation Delay & LOS shows mitigated LOS and control delay.

Implementation of the recommended signal timing devices from Mt. Hermon Road/Lockewood Lane/Skypark Drive to the Mt. Hermon Road/La Madrona Drive/SR 17 Southbound off-ramp intersection would improve operations to LOS C or better in AM and PM peak hours on Mt. Hermon Road, including the intersection of Mt. Hermon Road/Spring Lakes Drive which was identified has having a significant impact.

### Energy Conservation

According to Appendix F of the State CEQA Guidelines, the goal of conserving energy implies the wise and efficient use of energy including decreasing reliance on natural gas and oil and increasing reliance on renewable energy sources. The project would be constructed to Title 24 standards, which would reduce energy demand as compared to traditional development. Therefore, the project would not result in substantial or wasteful consumption of energy.

## 18.4 References

City of Scotts Valley, 2023. Scotts Valley General Plan.

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# 19 EIR Preparers

### Kimley-Horn & Associates

Bill Wiseman, Planning Practice Leader

Sophia Lai, Assistant Planner

Mia Berg, Assistant Planner

Noemi Wyss, Environmental Specialist

Sophie LaHerran, Environmental Specialist

Ace Malisos, Environmental Specialist

Ben Huie, Transportation Planner

Isabella Li, Transportation Planner

# Valley Gardens Public Review Draft EIR

# Appendices

# CITY OF SCOTTS VALLEY

**SCOTTS VALLEY PLANNING AND BUILDING DEPARTMENT**
1 Civic Center Drive • Scotts Valley • California • 95066
Phone (831) 440-5630 • Facsimile (831) 438-2793 • www.scottsvalley.org


## Notice of Preparation of an Environmental Impact Report (EIR) for the Valley Gardens Project

DATE: September 21, 2021

TO: Office of Planning & Research State Clearinghouse and Affected Agencies; Property Owners within 300 feet of the Project Site via US Mail)

FROM: City of Scotts Valley

LEAD AGENCY: City of Scotts Valley
Planning Department
1 Civic Center Drive
Scotts Valley, CA 95066

CONTACT: Susie Pineda
Contract Planner
E-mail: spineda@m-group.us
Phone: (408) 340-5642 x119

**SUBJECT:** **Notice of Preparation of an Environmental Impact Report for the Valley Gardens Project**

## Notice of Preparation

Notice is hereby given that the City of Scotts Valley (Lead Agency) will prepare an Environmental Impact Report (EIR) for the proposed Valley Gardens Project (the proposed project or project). The EIR will address the potential physical and environmental effects of the proposed project for each of the environmental topics outlined in the California Environmental Quality Act (CEQA). A complete description of the project and draft EIR scope is available on the City's website: https://www.scottsvalley.org/242/Current-Projects

The City will use the EIR when considering approval of the proposed project. Responsible Agencies, which are public agencies other than the City of Scotts Valley that have a role in approving or implementing the proposed project, will also need to consider the EIR prepared by the City of Scotts Valley when issuing approvals for the implementation of the proposed project.

The City has prepared this Notice of Preparation (NOP) to provide Responsible Agencies, Trustee Agencies, and other Interested Organizations and Persons with a description of the proposed project and to identify potential environmental effects pursuant to State CEQA requirements.

The City has not prepared an Initial Study. Under CEQA, a Lead Agency may proceed directly with preparation of the EIR without preparation of an Initial Study if it is clear that an EIR will be required (CEQA Guidelines Section 15060[d]). The City has made such a determination for this proposed project.

## Public Review and Comment Period

Further notice is hereby given that the City invites comments on the scope and content of the EIR in response to this NOP. Pursuant to Section 15082 of the State CEQA Guidelines, this NOP will be circulated for a 30-day review period. At a minimum, responses to this NOP should focus on the potentially significant environmental effects that the proposed project may have on the physical environment that should be addressed in the EIR, ways in which those effects might be minimized, and potential alternatives to the proposed project that should be addressed in the EIR. In your response, please include your name, the name of your agency or organization (if applicable), and contact information.

Comments on the NOP may be received in writing by 5:00 p.m. on October 25, 2021, and should be sent to:

Susie Pineda
Contract Planner
spineda@m-group.us

or

City of Scotts Valley
Planning Department
1 Civic Center Drive
Scotts Valley, CA 95066

# Notice of Preparation of an Environmental Impact Report for the Valley Gardens Project

## Introduction

The purpose of an Environmental Impact Report (EIR) is to inform decision-makers and the general public of the environmental effects of a proposed project that a Lead Agency may implement or approve. The EIR process is intended to provide information sufficient to evaluate a project and its potential for significant impacts on the environment, to examine methods of reducing adverse impacts, and to consider alternatives to the project.

The EIR for the proposed project will be prepared and processed in accordance with the California Environmental Quality Act (CEQA) of 1970, as amended. In accordance with the requirements of CEQA, the EIR will include the following:

- A summary of the project;
- A project description;
- A description of the existing environmental setting, potential environmental impacts, and mitigation measures;
- Alternatives to the project as proposed; and
- Environmental consequences, including (a) any significant environmental effects which cannot be avoided if the project is implemented; (b) any significant irreversible and irretrievable commitments of resources; (c) the growth inducing impacts of the proposed project; (d) effects found not to be significant; and (e) cumulative impacts.

## Project Location

The 30.11-acre project site is located on 263 Mount Hermon Road in the City of Scotts Valley. See Figure 1: Project Location. Primary access to the project site will be from Mount Hermon Road and Lockewood Lane. Surrounding uses include commercial retail to the north along Mount Hermon Road, single-family residential to the west and south, and the Silver Lakes mobile home park to the east.

## Project Background

The project site was formerly operated as the Valley Garden Golf Course. The nine-hole "executive" course was designed by Bob Bakdock and opened in 1971. It closed in 2019 after nearly 50 years in operation. The project site has a General Plan and Zoning designation of Open Space (OS) on a majority of the site, and Commercial Service (C-S) fronting Mount Hermon Road.

## Project Description

As shown in Figure 2: Project Site Plan, the proposed project is comprised of 116 residential dwelling units and approximately 8,500 square feet of commercial building space and up to 1,500 square feet of associated outdoor dining areas. Housing will consist of a mix of single- and two-story structures including 12 duplex buildings (24 units). Incorporating a variety of unit sizes and floor plans, the architecture of the project will reflect a "farmhouse" theme incorporating sloped roof and stucco and wood siding, with wood accents such as horizontal siding, board and batten, and wood posts and railings. The commercial component of the project will have a similar architectural theme complimenting the residential designs.

An approximately 8,500 square feet commercial area will be located close to Mount Hermon Road. Tenancy is envisioned to include locally-serving retail uses such as a restaurant(s), coffee shop, bakery, or other similar types of uses. Supporting these commercial uses will be approximately 1,500 square feet of outdoor dining space. This commercial area will be served by a surface parking lot, all of which will be separated from the residential land uses by landscaped areas.

Primary access to the site is from Mount Herman Road and Lockwood Lane via a new local road (Drive A). Access to the commercial uses are from Drive A. Internal access to the residential units are from two secondary local roads and a series of cul-de-sacs (Courts A through J). A separated multi-use pedestrian/bicycle trail will be constructed, generally adjacent to Drive A.

In addition to certification of a Final EIR, the proposed project will require the following City approvals:

- General Plan Amendment to change a majority of the existing Open Space (OS) land use designation to Residential – Medium High (R-MH) and expand the size of the Commercial Service (C-S) land use destination fronting Mount Hermon Road.
- Zone Change a majority of the existing Open Space (OS) zoning designation to R-M-6 Residential Medium High / Planned Development and to expand ad rezone the Commercial Service to Commercial Service / Planned Development
- Planned Development in conjunction with the Zone Change request to allow for the approval of a general development plan incorporating alternative development standards.
- Vesting Tentative Tract Map for the subdivision of land for residential, commercial and common areas.
- Use Permits
- Design Review to evaluate the site design and architecture of the project
- Planned Sign Program to evaluate the proposed signs for the project.

## Project Alternatives

The EIR will include an evaluation of various alternatives including a no-project alternative. Additional alternatives will be considered based on comments received on this NOP and the analysis of impacts in the EIR.

## Potential Environmental Impacts of the Proposed Project

The EIR will describe the existing environmental conditions on the project site and will identify the significant environmental impacts anticipated to result from development of the project as proposed. Where potentially significant environmental impacts are identified, the EIR will also discuss mitigation measures that may make it possible to avoid or reduce significant impacts, as appropriate.

The level of analysis in the EIR for each environmental resource is described below.

### *Aesthetics*

The EIR will discuss the visual setting and any impacts that would potentially occur as a result of the project. This will include an analysis of the visual character and compatibility of public views of the site and its surroundings.

### *Agriculture*

The project site is not used for agricultural purposes so this environmental resource topic will not be addressed in the EIR, apart from a brief analysis under the EIR section "Environmental Resources Considered But Eliminated."

### *Air Quality*

The EIR will describe the existing air quality conditions in and adjacent to the project site and will evaluate the project's potential air quality impacts, including short-term air quality impacts associated with construction and consistency with guidelines as defined by the Monterey Bay Air Resources District (MBARD).

### *Biological Resources*

The project site consists largely of manicured turf (no longer maintained) and trees.

The EIR will describe the characterize and map the major plant communities within the project site. It will also identify sensitive biotic resources, including habitats, plant or wildlife species of concern including the potential for presence of the Mt. Hermon June beetle, a federally listed species. The EIR will evaluate the potential effects of the proposed project activities on sensitive biotic resources and recommend measures to avoid or reduce such impacts. It will also include an analysis of potential adverse impacts on state or federally protected wetlands.

## *Cultural Resources*

The project site is located in a mapped area of “moderate archaeological sensitivity” in the General Plan Conservation & Open Space Figure OS-2, "Archeological Sensitivity Zones". Due to the level of earth disturbance required, archaeological monitoring will be required as a standard condition of approval.

The EIR will discuss potential impacts to various cultural resource classes (i. e. Native American sites, potential historical resources) within the project site and will include mitigation measures to reduce potential impacts to a less than significant level.

## *Geology and Soils*

The project site is not located within a State of California Earthquake Fault Zone (formerly known as Alquist-Priolo Special Study Zone) and no mapped fault traces are known to cross the site. The project site is not located in the General Plan Safety Element Map S-4 “Landslide Deposits” and is not mapped in the General Plan Safety Element Map S-5 “Slopes”.

The EIR will discuss the existing geologic and soil conditions, including potential impacts from seismic activity, on the project site, and will discuss the potential for the project to result in impacts to geology and soils on the project site.

## *Greenhouse Gas Emissions & Energy*

The EIR will examine the potential for the project to result in global climate change impacts due to greenhouse gas emissions.

Because significance threshold has not yet been adopted by the MBARB, the effects of the proposed project will be evaluated based not on the quantity of emissions, but rather on whether practicable available control measures can be implemented.

This section will also include a discussion of the potential energy impacts and ways of avoiding or reducing inefficient, wasteful and unnecessary consumption of energy.

## *Hazards and Hazardous Materials*

The project site is not included on a list of sites from Santa Cruz County Environmental Health Services Agency, where hazardous materials were previous used or stored. General Plan Safety Element Figure S-6 “Evacuation Routes” shows Mount Hermon Road as a primary evacuation route in the City’s Emergency Response Plan. The addition of the project will not change the function of Mount Hermon Road as a primary evacuation route. A Phase I Environmental Site Assessment (ESA) will be prepared for the project site.

The EIR will summarize the findings of the Phase I ESA and discuss the project’s potential to create significant hazards to the public or environment or emit hazardous emissions or handle hazardous materials.

## *Hydrology and Water Quality*

Development of the project site will create impervious surfaces and thereby reduce the area available for groundwater infiltration. The project site is located in a mapped area of "High Protection/ Recharge" in the General Plan Conservation and Open Space Element Figure OS-5 (Hydrological Resources).

The EIR will discuss the hydrologic and hydraulic conditions on the project site as well as drainage conditions in the project area and the potential for flooding. Potential water quality impacts and conformance with the Scotts Valley Stormwater Technical Guide (2104), as well as applicable Regional Water Quality Control Board requirements, will be addressed.

This section will also analyze the groundwater conditions in the project area and will discuss the use of groundwater, trends, and general aquifer conditions.

## *Land Use and Planning*

The EIR will discuss the proposed project's consistency with adopted plans and policies including the City's General Plan.

## *Mineral Resources*

The project site is located in a mapped area of "Resource Zone Undetermined" (1994 General Plan Conservation and Open Space Element, Figure OS-4, "Mineral Resource Zones").

The project site is not used for any mining or quarrying activity. As such, this environmental resource topic will not be addressed in the EIR, apart from a brief analysis under the EIR section "Environmental Resources Considered But Eliminated."

## *Noise*

A portion of the project site fronting Mount Hermon Road is located in noise contours ranging from 60 to 70 dBA, as shown in General Plan Noise Element Figure N-1, "Existing Noise Contours". The General Plan Noise Element uses the 24-hour average day-night noise level (DNL) for defining community noise impacts. The maximum standard is 60 decibels (dB) DNL of exterior noise and 45 dB DNL for interior noise.

The EIR will include a discussion of noise impacts primarily resulting from project construction. The analysis will identify the existing setting and the noise levels associated with construction activities. Post-construction project operations are not expected to significantly increase noise levels beyond what is currently occurring at the project site. Conformance with the City of Scotts Valley's noise guidelines will be analyzed.

## *Population and Housing*

The proposed project would result in an increase in population and housing that is well within the land use buildout capacity projections identified within the City of Scotts Valley General

Plan (1994), as well as the Association of Monterey Bay Area Government's 2018 Regional Growth Forecast for the City of Scotts Valley.

As such, this environmental resource topic will not be addressed in the EIR, apart from a brief analysis under the EIR section "Environmental Resources Considered But Eliminated."

## *Public Services and Recreation*

Although the proposed project is an in-fill project located within an urban environment, impacts to public services and recreation will be evaluated. The EIR will assess the potential for the project to result in substantial adverse physical impacts to public services (such as fire and police protection services and schools) and the potential for the project to impact public recreation facilities.

## *Transportation and Traffic*

The EIR will include a vehicle miles traveled (VMT) analysis using the City's Draft VMT Implementation Guidelines and the regional VMT Calculator (calibrated for Scotts Valley) to determine VMT per capita for residential uses (retail uses under 50,000 square feet are exempt).

If a significant VMT impact is identified, the EIR will identify possible transportation demand management (TDM) program measures (as identified in Appendix B of the VMT Implementation Guidelines) to reduce VMT on a per capita basis.

The EIR will also include a traffic impact analysis (TIA) which will be included as an informational section in the EIR. The TIA analysis will include AM and PM peak hour intersection level of service analysis for the following nine (9) intersections:

1. Graham Hill Road / Lockewood Lane
2. Estrella Drive / Lockewood Lane
3. Street A / Lockewood Lane
4. Mount Hermon Road / Lockewood Lane
5. Mount Herman Road / Drive A
6. Mount Herman Road / Kings Village Road
7. Mount Herman Road / Spring Lakes Drive
8. Mount Herman Road / Scotts Valley Drive
9. Mount Herman Road / La Madrona Drive / SB Highway 17 off-ramp

The TIA will analyze the following four scenarios: Existing, Existing + Project, Cumulative, and Cumulative + Project. All scenarios will be analyzed using trip generation rates from the Institute of Transportation Engineers (ITE) *Trip Generation Manual, 10th Edition*

## *Tribal Cultural Resources*

This section will address if the project would cause a substantial adverse change in the significance of a tribal cultural resource as either a site, feature, place, and/or cultural landscape, or object with a cultural value to a California Native American tribe.

## *Utilities and Service Systems*

This section will address water supply, wastewater, electricity, natural gas, and communications. Project-related demand for facilities and services will be estimated and compared against existing capacity and proposed future capacity associated with the proposed project. Potential impacts will be assessed based upon a comparison of the increased demand for services and utilities and the ability of the City and other utility districts to accommodate this increased demand.

Water supply, including an analysis of future water supply and demand during drought conditions will be analyzed based on demand and supply projections as identified by the Scotts Valley Water District.

## *Wildfire*

This section will address if the project would impair an adopted emergency response or emergency evacuation plan, expose project occupants to pollutant concentrations from a wildfire, and/or require the installation or maintenance of infrastructure that may exacerbate fire risk that may result in temporary or ongoing impacts to the environment.

## *Cumulative Impacts*

The EIR will include a discussion of the potentially significant cumulative impacts of the proposed project when considered with other past, present, and reasonably foreseeable future projects in the area. The analysis will include a discussion of all projects for which applications have been filed. This section will cover all relevant subject areas as defined in the CEQA Guidelines, and will specify which environmental resources are anticipated to experience significant cumulative impacts.

## *Other Required Sections*

The EIR will also include, as appropriate, other information typically required for an EIR including: 1) Growth Inducing Impacts; 2) Significant Unavoidable Impacts; 3) Significant Irreversible Environmental Changes; 4) References; and 5) EIR Authors. Relevant technical reports will be provided in an appendices.

**Figure 1: Project Location**

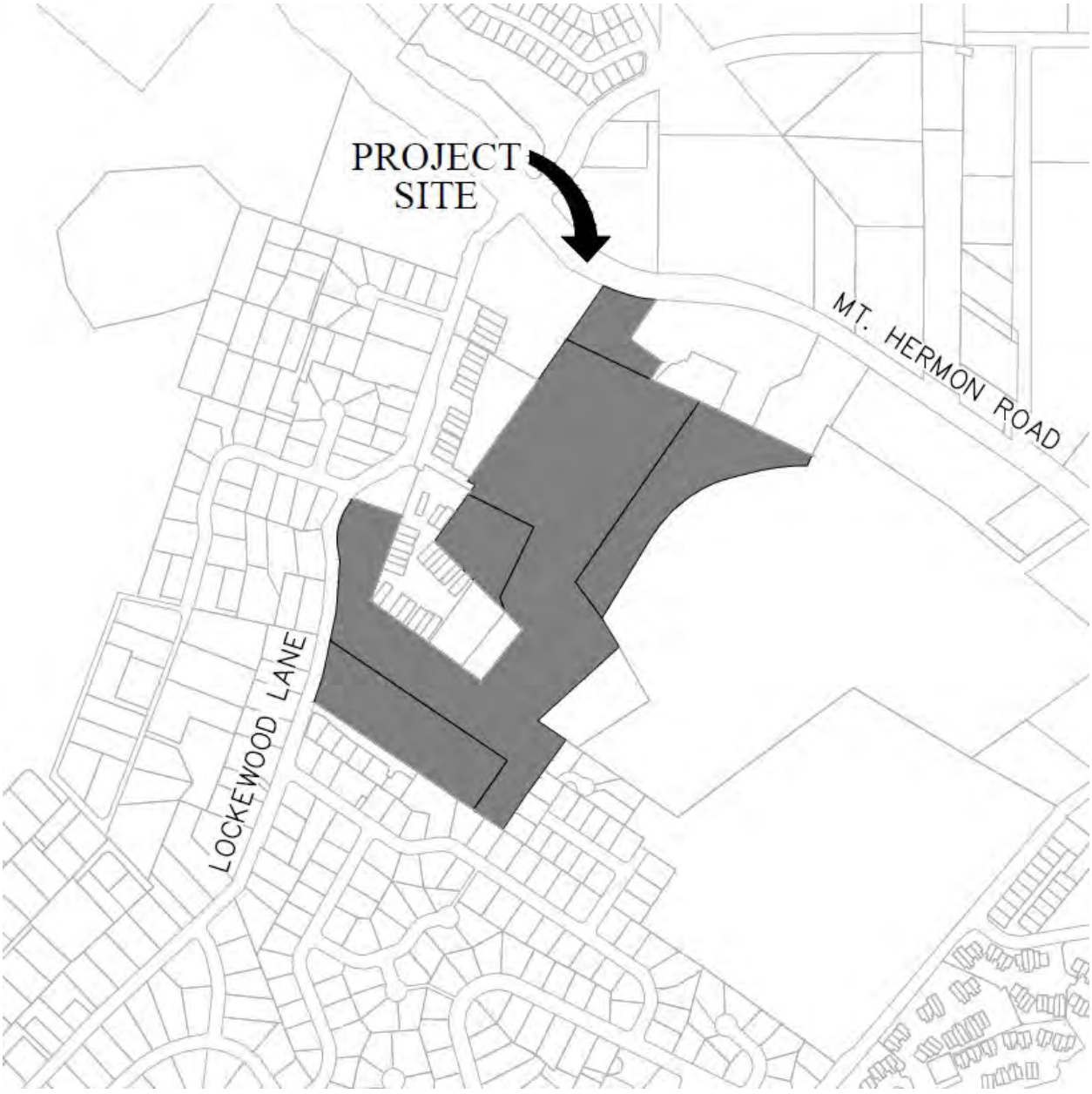


**Figure 2: Project Site Plan**



**From:** Takano, Leilani <leilani_takano@fws.gov>
**Sent:** Monday, October 4, 2021 2:29 PM
**To:** Susie Pineda <spineda@m-group.us>
**Cc:** Mitcham, Chad J <chad_mitcham@fws.gov>
**Subject:** NOP of an EIR for the Valley Gardens Project, City of Scotts Valley

**[EXTERNAL EMAIL]** DO NOT CLICK links or attachments unless you know the content is safe. Be aware that the sending address can be faked or manipulated.

Dear Susie Pineda,

We have reviewed the Notice of Preparation of an Environmental Impact Report for the Valley Gardens Project in Scotts Valley (City), Santa Cruz County, California. We are providing these comments based on our concern for listed species within our jurisdiction related to our mandates under the Endangered Species Act of 1973, as amended (Act).

As you are likely aware, protocol surveys for the federally endangered Mount Hermon June Beetle (*Polyphylla barbata*) were conducted at the project site in 2004 and 2016, which confirmed species presence. Because project activities, as proposed, would adversely affect the species, we recommend that the City or project proponent engage with us at the earliest opportunity to discuss options in terms of avoiding the species and its habitat, or obtaining Mount Hermon June beetle take authorization in order to comply with the Act.

We appreciate the opportunity to provide these comments. If you have any questions, please contact Chad Mitcham at chad_mitcham@fws.gov.

Thank you,
Leilani

Leilani Takano
Assistant Field Supervisor
U.S. Fish and Wildlife Service
Ventura Fish and Wildlife Office
2493 Portola Road, Suite B
Ventura, CA 93003

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State of California – Natural Resources Agency
DEPARTMENT OF FISH AND WILDLIFE
Bay Delta Region
2825 Cordelia Road, Suite 100
Fairfield, CA 94534
(707) 428-2002
www.wildlife.ca.gov

***GAVIN NEWSOM, Governor***
***CHARLTON H. BONHAM, Director***

October 22, 2021

Taylor Bateman
City of Scotts Valley
One Civic Center Drive
Scotts Valley, CA 95066
tbateman@scottsvalley.org

Subject: The Valley Gardens Project, Notice of Preparation of a Draft Environmental Impact Report, SCH No. 2021090394, Santa Cruz County

Dear Mr. Bateman:

The California Department of Fish and Wildlife (CDFW) has reviewed the Notice of Preparation (NOP) of a draft Environmental Impact Report (DEIR) prepared by the City of Scott's Valley (City) for the Valley Gardens Project (Project), located at 263 Mount Hermon Road, in the City of Scotts Valley, in Santa Cruz County. CDFW is submitting comments to the NOP regarding potentially significant impacts to biological resources associated with the Project.

**CDFW ROLE**

CDFW is a Trustee Agency with responsibility under the California Environmental Quality Act (CEQA; Pub. Resources Code, § 21000 et seq.) pursuant to CEQA Guidelines § 15386 for commenting on projects that could impact fish, plant, and wildlife resources (e.g., biological resources). CDFW is also considered a Responsible Agency if a project would require discretionary approval, such as permits issued under the California Endangered Species Act (CESA), the Native Plant Protection Act, the Lake and Streambed Alteration (LSA) Program, and other provisions of the Fish and Game Code that afford protection to the state's fish and wildlife trust resources.

**California Endangered Species Act**

Please be advised that a CESA Permit must be obtained if the Project has the potential to result in "take" of plants or animals listed under CESA, either during construction or over the life of the Project. Issuance of a CESA Permit is subject to CEQA documentation; the CEQA document must specify impacts, mitigation measures, and a mitigation monitoring and reporting program. If the Project will impact CESA listed species, early consultation is encouraged, as significant modification to the Project and mitigation measures may be required in order to obtain a CESA Permit.

CEQA requires a Mandatory Finding of Significance if a project is likely to substantially impact threatened or endangered species (Pub. Resources Code, §§ 21001 subd. (c),

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21083 & CEQA Guidelines, §§ 15380, 15064, 15065). Impacts must be avoided or mitigated to less-than-significant levels unless the CEQA Lead Agency makes and supports Findings of Overriding Consideration (FOC). The CEQA Lead Agency's FOC does not eliminate the Project proponent's obligation to comply with Fish and Game Code, § 2080.

**Lake and Streambed Alteration Program**

The Project has the potential to impact resources including mainstems, tributaries and floodplains associated with the San Lorenzo River Watershed. Notification is required, pursuant to CDFW's LSA Program (Fish & G. Code, section 1600 et. seq.) for any Project-related activities that will substantially divert or obstruct the natural flow; change or use material from the bed, channel, or bank (including associated riparian or wetland resources); or deposit or dispose of material where it may pass into a river, lake or stream. CDFW generally considers work within ephemeral streams, washes, watercourses with a subsurface flow, and floodplains are subject to notification requirements. CDFW, as a Responsible Agency under CEQA, will consider the CEQA document for the Project. CDFW may not execute a final LSA Agreement until it has complied with CEQA (Pub. Resources Code § 21000 et seq.) as the responsible agency.

**PROJECT DESCRIPTION**

The proposed Project site was formerly operated as a nine-hole golf course, which closed in 2019. The proposed Project would develop 116 residential units and approximately 8,500 square feet of commercial buildings space and up to 1,500 square feet of outdoor dining area. Primary access to the site will be from Mount Herman Road and Lockwood Lane via a new local road. A separated multi-use trail will be constructed, adjacent to the new local road access.

CEQA Guidelines, (§§15124 & 15378) require that the draft EIR incorporate a full Project description, including reasonably foreseeable future phases of the Project, and that contains sufficient information to evaluate and review the Project's environmental impact. Please include a complete description of the following Project components in the Project description:

- Footprints and plans for any proposed buildings and structures with ground disturbing activities;
- Area and plans for any new light sources or light reflection;
- Area and plans for any fencing, paving, landscaping, and stormwater systems;
- Construction schedule including project phasing, activities, and equipment.

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## ENVIRONMENTAL SETTING AND LOCATION

Sufficient information regarding the environmental setting is necessary to understand the Project's, and its alternative's (if applicable), significant impacts on the environment (CEQA Guidelines, §§15125 & 15360). CDFW recommends that the CEQA document prepared for the Project provide baseline habitat assessments for special-status plant, fish and wildlife species located and potentially located within the Project area and surrounding lands, including all rare, threatened, or endangered species (CEQA Guidelines, §15380). Fully protected, threatened or endangered, candidate, and other special-status species that are known to occur, or have the potential to occur in or near the Project site, include, but are not limited to:

| **Common Name** | **Scientific Name** | **Status** |
|---|---|---|
| California giant salamander | *Dicamptodon ensatus* | SSC |
| Foothill yellow-legged frog | *Rana boylii* | SE, SSC |
| Santa Cruz black salamander | *Aneides niger* | SSC |
| Mount Hermon June beetle | *Polyphylla barbata* | FE |
| Ohlone tiger beetle | *Cicindela Ohlone* | FE |
| Smith's blue butterfly | *Euphilotes enoptes smith* | FE |
| Zayante band-winged grasshopper | *Trimerotropis infantilis* | FE |
| American badger | *Taxidea taxus* | SSC |
| Santa Cruz kangaroo rat | *Dipodomys venustus venustus* | |
| Ben Lomond spineflower | *Chorizanthe pungens var. hartwegiana* | FE |
| Nesting Birds | | |
| Notes:<br>FE = Federally Endangered; SE = State Endangered; SSC = State Species of Special Concern | | |

Habitat descriptions and species profiles should include information from multiple sources: aerial imagery, historical and recent survey data, field reconnaissance, scientific literature and reports, and findings from "positive occurrence" databases such

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as California Natural Diversity Database (CNDDB). Based on the data and information from the habitat assessment, the CEQA document can then adequately assess which special-status species are likely to occur in the Project vicinity.

CDFW recommends that prior to Project implementation, surveys be conducted for special-status species with potential to occur, following recommended survey protocols if available. Survey and monitoring protocols and guidelines are available at: https://www.wildlife.ca.gov/Conservation/Survey-Protocol.

Botanical surveys for special-status plant species, including those listed by the California Native Plant Society (http://www.cnps.org/cnps/rareplants/inventory/), must be conducted during the blooming period for all sensitive plant species potentially occurring within the Project area and require the identification of reference populations. Please refer to CDFW protocols for surveying and evaluating impacts to rare plants available at: https://www.wildlife.ca.gov/Conservation/Plants.

## COMMENTS AND RECOMMENDATIONS

CEQA Guidelines §15126.2 necessitate that the draft EIR discuss all direct and indirect impacts (temporary and permanent) that may occur with implementation of the Project. This includes evaluating and describing impacts such as:

- Potential for “take” of special-status species;
- Loss or modification of breeding, nesting, dispersal and foraging habitat, including vegetation removal and alteration of soils;
- Permanent and temporary habitat disturbances associated with ground disturbance, noise, lighting, reflection, air pollution, traffic or human presence; and
- Obstruction of movement corridors or access to water sources and other core habitat features.

CDFW offers the following comments and recommendations to assist the City in adequately identifying and/or mitigating the Project’s significant, or potentially significant, direct, and indirect impacts on biological resources.

### COMMENT 1: Artificial Lighting

**Issue:** With the addition of buildings for commercial and residential use, the Project has the potential to increase artificial lighting. Artificial lighting often results in light pollution, which has the potential to significantly and adversely affect fish and wildlife.

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**Evidence the impact would be significant:** Night lighting can disrupt the circadian rhythms of many wildlife species. Many species use photoperiod cues for communication such as bird song (Miller, 2006), determining when to begin foraging (Stone et al., 2009), behavior thermoregulation (Beiswenger, 1977), and migration (Longcore and Rich, 2004).

**Recommendations to minimize significant impacts:** CDFW recommends eliminating all non-essential artificial lighting. If artificial lighting is necessary, CDFW recommends avoiding or limiting the use of artificial lights during the hours of dawn and dusk, when many wildlife species are most active. CDFW also recommends that outdoor lighting be shielded, cast downward, and does not spill over onto other properties or upwards into the night sky (see the International Dark-Sky Association standards at http://darksky.org/) and limited to an output of 2700 kelvin or less from each luminaire.

**COMMENT 2: Impervious surfaces**

**Issue:** The Project could increase impervious surfaces at the Project site. Impervious surfaces, stormwater systems, and storm drain outfalls have the potential to significantly affect fish and wildlife resources by altering the hydrograph of natural streamflow patterns via concentrated run-off.

**Evidence the impact would be significant:** Urbanization (e.g., impervious surfaces, stormwater systems, storm drain outfalls) can modify natural streamflow patterns by increasing the magnitude and frequency of high flow events and storm flows (Hollis 1975, Konrad and Booth 2005).

**Recommendations to minimize significant impacts:** CDFW recommends that storm runoff be dispersed rather than concentrated to a stormwater outfall or other receiving waters. CDFW recommends implementation of low impact development (LID) and the use of bioswales and bioretention features to intercept storm runoff. CDFW also recommends incorporating permeable surfaces throughout the Project to allow stormwater to percolate in the ground and prevent stream hydromodification (see Evaluating the potential benefits of permeable pavement on the quantity and quality of stormwater runoff (usgs.gov)).

**COMMENT 3: Loss of Pond Habitat**

**Issue:** Development of the Project from a golf course to a residential and commercial development may result in the destruction of onsite golf course ponds, which provide habitat for wetland dependent species.

**Evidence the impact would be significant:** Manmade ponds on golf courses can provide food resources for many species of waterbirds (White and Main, 2005). Manmade ponds on golf courses can also provide suitable habitat for wetland

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dependent wildlife including semi-aquatic turtles (Price et al., 2013), amphibians, and macroinvertebrates (Colding et al., 2009).

**Recommendations to minimize significant impacts:** CDFW recommends retaining on-site ponds into the design of the development.

**COMMENT 4: Nesting Birds**

**Issue:** The Project could result in the disturbance of nesting birds through the direct removal of trees and indirect noise related impacts during construction.

**Evidence the impact would be significant:** Noise can impact bird behavior by masking signals used for bird communication, mating, and hunting (Bottalico et al., 2015). Birds hearing can also be damaged from noise and impair the ability of birds to find or attract a mate and prevent parents from hearing calling young (Ortega, 2012).

**Recommendations to minimize significant impacts:** If ground-disturbing or vegetation disturbing activities must occur during the breeding season (February through early September), the Project proponent is responsible for ensuring that implementation of the Project does not result in violation of the Migratory Bird Treaty Act 1918 or Fish and Game Code.

To evaluate and avoid for potential impacts to nesting bird species, CDFW recommends incorporating the following mitigation measures into the Project's DEIR, and that these measures be made conditions of approval for the Project.

**Recommended Mitigation Measure 1: Nesting Bird Surveys**
CDFW recommends that a qualified avian biologist conduct pre-activity surveys for active nests no more than seven (7) days prior to the start of ground or vegetation disturbance and every 14 days during Project activities to maximize the probability that nests that could potentially be impacted are detected. CDFW also recommends that surveys cover a sufficient area around the Project site to identify nests and determine their status. A sufficient area means any area potentially affected by the Project. Prior to initiation of ground or vegetation disturbance, CDFW recommends that a qualified biologist conduct a survey to establish a behavioral baseline of all identified nests. Once Project activities begins, CDFW recommends having the qualified biologist continuously monitor nests to detect behavioral changes resulting from the Project. If behavioral changes occur, CDFW recommends stopping the work causing that change and consulting with CDFW for additional avoidance and minimization measures.

**Recommended Mitigation Measure 2: Nesting Bird Buffers**
If continuous monitoring of identified nests by a qualified avian biologist is not feasible, CDFW recommends a minimum no-disturbance buffer of 250 feet around active nests of non-listed bird species and a 500-foot no-disturbance buffer around active nests of

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non-listed raptors. These buffers are advised to remain in place until the breeding season has ended or until a qualified biologist has determined that the birds have fledged and are no longer reliant upon the nest or on-site parental care for survival.

Variance from these no-disturbance buffers is possible when there is compelling biological or ecological reason to do so, such as when the Project site would be concealed from a nest site by topography. CDFW recommends that a qualified avian biologist advise and support any variance from these buffers.

**FILING FEES**

CDFW anticipates that the Project will have an impact on fish and/or wildlife, and assessment of filing fees is necessary (Fish & G. Code, § 711.4; Pub. Resources Code, § 21089). Fees are payable upon filing of the Notice of Determination by the Lead Agency and serve to help defray the cost of environmental review by CDFW.

Thank you for the opportunity to comment on the Project's NOP. If you have any questions regarding this letter or for further coordination with CDFW, please contact Ms. Serena Stumpf, Environmental Scientist, at (707) 337-1364 or Serena.Stumpf@wildlife.ca.gov; or Mr. Wesley Stokes, Senior Environmental Scientist (Supervisory), at Wesley.Stokes@wildlife.ca.gov.

Sincerely,

DocuSigned by:
Stephanie Fong
CF047D7F8D234E1...

Stephanie Fong
Acting Regional Manager
Bay Delta Region

ec: State Clearinghouse # 2021090394

**REFERENCES**

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# NATIVE AMERICAN HERITAGE COMMISSION

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September 22, 2021

Taylor Bateman, Com. Dev. Director
City of Scotts Valley, Community Development Department
One Civic Center Drive
Scotts Valley, CA 95066

**Re: 2021090394, The Valley Gardens Project, Santa Cruz County**

Dear Mr. Bateman:

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

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

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

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

AB 52

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

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

**a.** A brief description of the project.

**b.** The lead agency contact information.

**c.** Notification that the California Native American tribe has 30 days to request consultation. (Pub. Resources Code §21080.3.1 (d)).

**d.** A "California Native American tribe" is defined as a Native American tribe located in California that is on the contact list maintained by the NAHC for the purposes of Chapter 905 of Statutes of 2004 (SB 18). (Pub. Resources Code §21073).

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

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

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

**a.** Alternatives to the project.

**b.** Recommended mitigation measures.

**c.** Significant effects. (Pub. Resources Code §21080.3.2 (a)).

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

**a.** Type of environmental review necessary.

**b.** Significance of the tribal cultural resources.

**c.** Significance of the project's impacts on tribal cultural resources.

**d.** If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency. (Pub. Resources Code §21080.3.2 (a)).

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

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

**a.** Whether the proposed project has a significant impact on an identified tribal cultural resource.

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

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

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

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

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

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

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

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

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

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

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

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

**ii.** Protecting the traditional use of the resource.

**iii.** Protecting the confidentiality of the resource.

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

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

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

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

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

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

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

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

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

SB 18

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

Some of SB 18's provisions include:

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

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

NAHC Recommendations for Cultural Resources Assessments

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

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

2. If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
    a. The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum and not be made available for public disclosure.
    b. The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.

3. Contact the NAHC for:
   **a.** A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.
   **b.** A Native American Tribal Consultation List of appropriate tribes for consultation concerning the project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.

4. Remember that the lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.
   **a.** Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources per Cal. Code Regs., tit. 14, §15064.5(f) (CEQA Guidelines §15064.5(f)). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.
   **b.** Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.
   **c.** Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code §7050.5, Public Resources Code §5097.98, and Cal. Code Regs., tit. 14, §15064.5, subdivisions (d) and (e) (CEQA Guidelines §15064.5, subds. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

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

Sincerely,

Katy Sanchez

Katy Sanchez
Associate Environmental Planner

cc: State Clearinghouse

City of Scotts Valley
Planning Department
1 Civic Center Drive
Scotts Valley, CA 95066
Attention: Susie Pineda
Reference: Notice of Preparation of an EIR for the Valley Gardens Project

October 17, 2021

To whom it may concern,

We received the above referenced Notice of Preparation ("Notice") on or about September 23, 2021 for the Valley Gardens Project ("Project"). Our response and concerns are noted below.

- Increased traffic on Lockwood due to the Project – From Graham Hill Road to Mt Herman Drive. Traffic levels, sidewalk access, and bike lanes are already limited, especially from the intersection of Estrella Drive to Mt Herman Drive. Lockwood should be widened, storm water should be placed in pipes underground, appropriate bike lanes and sidewalks should be installed to handle the increased traffic generated by the referenced Project.
- With increased traffic generated by the Project, Estrella traffic should be studied and improvements to Estrella Drive should be made accordingly. Estrella has no sidewalks, homeowners park curbside, and there are two blind-curves on the street. Estrella is already an extremely dangerous street as travelers use it to cut off the traffic impacts on Mt Herman Drive. The safety and well-being of Estrella and surrounding neighborhood residents has gotten worse with increased traffic (and associated delays) on Mt Herman. Estrella, like Lockwood, should also receive widening, sidewalks, or in absence of right-of-way, the street should be blocked at Pinecone and left for emergency traffic only.
- With a Project of this size and magnitude for our small community of Scotts Valley, consider moving the lead agency to Santa Cruz County. The County may have the resources, both financial and staff to handle proper CEQA mandates for a project of this size. If a CEQA lawsuit were to occur, the County may be more prepared and experienced to handle the disruption to day-to-day business.

Thank you for your consideration of the above matters.

Respectfully,

Jay L. McQuillen, Jr
361 Collado Drive
Scotts Valley, CA 95066

cc – Scotts Valley City Council

**From:** Linda Haas <lindamhaas@yahoo.com>
**Sent:** Monday, June 20, 2022 12:24 PM
**To:** dboitano@robsonhomes.com <dboitano@robsonhomes.com>
**Cc:** Emily Krauss <emily@kingmanagement.net>; Susie Pineda <spineda@m-group.us>
**Subject:** ?s from owner at 413 Lockewood Lane/next to Valley Gardens project

**[EXTERNAL EMAIL]** DO NOT CLICK links or attachments unless you know the content is safe. Be aware that the sending address can be faked or manipulated.

Hi Dominic,

CC'ing Emily Krauss with King Management, Susie Pineda Contract Planner per the NOP of EIR dated 9/21/21

I just left you a voicemail on your office line.

I'm an owner/resident that will back up to your proposed project. I just moved in to this property about six months ago after being served an unexpected vacate notice from my previous rental home. I own this property at 413 Lockewood (long story why I wasn't already living here).

I realize that the 30-day comment period in response to the NOP of EIR has come and gone last fall - I was moving under duress during that 30 day comment period and missed my opportunity to comment officially.

Still....I have these questions....

1) Will you be replacing the **back fences** adjacent to the current open space/swale that runs between Lockewood Lane and the string of 6 homes of which my property is a part?

If not, what are you going to do to protect the integrity of our fences during construction/earth moving/infrastructure placement when significant digging and earth movement occurs?

If you are, with what material, how high, etc and at what point during construction will that replacement work be done?

I have a nice patio with a nice fence that I don't want disturbed/damaged unless you plan to replace it with something bigger/better/stronger to withstand the disruption during construction, earth moving, etc.

2) What mitigation measures do you plan to take for **drainage** so as not to send any runoff from your finished dev't into my/our backyards in this area (there are 6 homes that are in the line that back up to the small little dead end court culdesac (Court I) per your plans with the City)?

Your development in this area slopes up from our properties - because it's currently undeveloped, rain is absorbed into the ground such that runoff isn't an issue now, but your project is going to change that, especially as I'm sure you plan to do some grading and change the elevation/current gradual slope relative to our homes.

We have a low capacity "minimalist" pipe that runs along the back of our properties (along our back fence lines) to direct water away from our back patios and homes - your construction needs to consider how you're going to impact that drainage and ensure it's not compromised and also ensure you're not adding water to a system that wasn't designed to

take a bunch of runoff coming off of your development.  Our homes here are  not raised up in any way from the level of our patios/we're on slabs, so any runoff from your development that isn't properly diverted away from our properties could easily cause water IN our homes during heavy rain which does occur around here some winters.

3) How much higher relative to the **height** of my house will the properties labeled 111/112 be?  Right now, I have a nice view and air flow coming through my back upstairs window - I'd like to know how the proposed building (units 111/112) directly behind my home will affect that.  I'm expecting those units to be higher based on the gradual elevated slope of the land in that area relative to my property.

4) In the proposed plan diagram available through the City, there are **two green "blocks" that directly back up to my property that aren't labeled (between my back fence and unit 111, and at the end of Court I)**.  What is your plan for those areas/how are those going to be used/developed?

For reference, my property is 3rd one in from the left in the line/4th one in from the right, of those 6 homes.

King Management (our HOA firm) recently sent out a newsletter indicating that there could be a meeting scheduled for interested owners to discuss your plans with us.  I am cc'ing Emily Krauss with King Management so she knows I am interested.  But in the meantime, I'd appreciate a phone conversation so I can understand how this project is going to impact my home.

Thank you in advance for your consideration,

Linda Haas, Owner
413 Lockewood Lane
Scotts Valley CA  95066
mobile - 831-334-7764

# Valley Gardens Detailed Report

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1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

2.4. Operations Emissions Compared Against Thresholds

2.5. Operations Emissions by Sector, Unmitigated

3. Construction Emissions Details

3.1. Demolition (2025) - Unmitigated

3.3. Site Preparation (2025) - Unmitigated

3.5. Grading (2025) - Unmitigated

3.7. Building Construction (2025) - Unmitigated

3.9. Building Construction (2026) - Unmitigated

3.11. Building Construction (2027) - Unmitigated

3.13. Building Construction (2028) - Unmitigated

3.15. Paving (2028) - Unmitigated

3.17. Architectural Coating (2028) - Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field | Value |
|---|---|
| Project Name | Valley Gardens |
| Construction Start Date | 1/1/2025 |
| Operational Year | 2027 |
| Lead Agency | — |
| Land Use Scale | Project/site |
| Analysis Level for Defaults | County |
| Windspeed (m/s) | 1.80 |
| Precipitation (days) | 2.20 |
| Location | 37.04525613559268, -122.03388318346998 |
| County | Santa Cruz |
| City | Scotts Valley |
| Air District | Monterey Bay ARD |
| Air Basin | North Central Coast |
| TAZ | 3121 |
| EDFZ | 6 |
| Electric Utility | Pacific Gas & Electric Company |
| Gas Utility | Pacific Gas & Electric |
| App Version | 2022.1.1.24 |

## 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 |
|---|---|---|---|---|---|---|---|---|

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Apartments Mid Rise | 54.0 | Dwelling Unit | 1.42 | 51,840 | 0.00 | — | 142 | — |
| Single Family Housing | 142 | Dwelling Unit | 46.1 | 276,900 | 1,663,226 | — | 373 | — |
| Fast Food Restaurant with Drive Thru | 1.50 | 1000sqft | 0.03 | 1,500 | 0.00 | — | — | — |
| High Turnover (Sit Down Restaurant) | 2.75 | 1000sqft | 0.06 | 2,750 | 0.00 | — | — | — |
| High Turnover (Sit Down Restaurant) | 4.10 | 1000sqft | 0.09 | 4,100 | 0.00 | — | — | — |

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

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

| Un/Mit. | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 179 | 179 | 30.2 | 29.5 | 0.06 | 1.24 | 3.79 | 5.02 | 1.14 | 1.47 | 2.61 | — | 7,003 | 7,003 | 0.30 | 0.12 | 4.13 | 7,042 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 179 | 179 | 31.7 | 31.0 | 0.06 | 1.37 | 3.79 | 5.02 | 1.26 | 1.47 | 2.61 | — | 6,997 | 6,997 | 0.39 | 0.46 | 0.14 | 7,034 |
| Average Daily (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 25.1 | 24.9 | 13.8 | 15.8 | 0.03 | 0.55 | 1.17 | 1.71 | 0.50 | 0.38 | 0.88 | — | 3,430 | 3,430 | 0.16 | 0.10 | 1.19 | 3,464 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Annual (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 4.57 | 4.55 | 2.52 | 2.89 | 0.01 | 0.10 | 0.21 | 0.31 | 0.09 | 0.07 | 0.16 | — | 568 | 568 | 0.03 | 0.02 | 0.20 | 574 |

## 2.2. Construction Emissions by Year, Unmitigated

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

| Year | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily - Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 3.94 | 3.30 | 30.2 | 29.5 | 0.06 | 1.24 | 3.79 | 5.02 | 1.14 | 1.47 | 2.61 | — | 7,003 | 7,003 | 0.30 | 0.12 | 4.13 | 7,042 |
| 2026 | 1.80 | 1.53 | 10.9 | 17.6 | 0.03 | 0.38 | 0.76 | 1.14 | 0.35 | 0.18 | 0.54 | — | 3,541 | 3,541 | 0.17 | 0.12 | 3.86 | 3,584 |
| 2027 | 1.73 | 1.47 | 10.4 | 17.3 | 0.03 | 0.34 | 0.76 | 1.10 | 0.32 | 0.18 | 0.50 | — | 3,520 | 3,520 | 0.17 | 0.12 | 3.57 | 3,563 |
| 2028 | 179 | 179 | 7.53 | 12.4 | 0.02 | 0.27 | 0.23 | 0.50 | 0.25 | 0.05 | 0.30 | — | 1,881 | 1,881 | 0.08 | 0.02 | 0.86 | 1,891 |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 4.03 | 3.40 | 31.7 | 31.0 | 0.06 | 1.37 | 3.79 | 5.02 | 1.26 | 1.47 | 2.61 | — | 6,997 | 6,997 | 0.39 | 0.46 | 0.14 | 7,034 |
| 2026 | 1.80 | 1.53 | 11.0 | 17.6 | 0.03 | 0.39 | 0.76 | 1.14 | 0.35 | 0.18 | 0.54 | — | 3,512 | 3,512 | 0.17 | 0.12 | 0.10 | 3,551 |
| 2027 | 1.73 | 1.47 | 10.5 | 17.3 | 0.03 | 0.34 | 0.76 | 1.10 | 0.32 | 0.18 | 0.50 | — | 3,492 | 3,492 | 0.17 | 0.12 | 0.09 | 3,531 |
| 2028 | 179 | 179 | 9.96 | 17.0 | 0.03 | 0.31 | 0.76 | 1.06 | 0.28 | 0.18 | 0.46 | — | 3,471 | 3,471 | 0.17 | 0.11 | 0.09 | 3,509 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 1.94 | 1.61 | 13.8 | 15.8 | 0.03 | 0.55 | 1.17 | 1.71 | 0.50 | 0.38 | 0.88 | — | 3,430 | 3,430 | 0.16 | 0.10 | 0.97 | 3,464 |
| 2026 | 1.28 | 1.08 | 7.85 | 12.4 | 0.02 | 0.27 | 0.54 | 0.82 | 0.25 | 0.13 | 0.38 | — | 2,509 | 2,509 | 0.12 | 0.08 | 1.19 | 2,538 |
| 2027 | 1.23 | 1.04 | 7.47 | 12.2 | 0.02 | 0.24 | 0.54 | 0.79 | 0.23 | 0.13 | 0.36 | — | 2,494 | 2,494 | 0.12 | 0.08 | 1.10 | 2,523 |
| 2028 | 25.1 | 24.9 | 4.33 | 7.06 | 0.01 | 0.15 | 0.18 | 0.33 | 0.14 | 0.04 | 0.18 | — | 1,222 | 1,222 | 0.05 | 0.03 | 0.32 | 1,231 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 0.35 | 0.29 | 2.52 | 2.89 | 0.01 | 0.10 | 0.21 | 0.31 | 0.09 | 0.07 | 0.16 | — | 568 | 568 | 0.03 | 0.02 | 0.16 | 574 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2026 | 0.23 | 0.20 | 1.43 | 2.26 | < 0.005 | 0.05 | 0.10 | 0.15 | 0.05 | 0.02 | 0.07 | — | 415 | 415 | 0.02 | 0.01 | 0.20 | 420 |
| 2027 | 0.22 | 0.19 | 1.36 | 2.22 | < 0.005 | 0.04 | 0.10 | 0.14 | 0.04 | 0.02 | 0.06 | — | 413 | 413 | 0.02 | 0.01 | 0.18 | 418 |
| 2028 | 4.57 | 4.55 | 0.79 | 1.29 | < 0.005 | 0.03 | 0.03 | 0.06 | 0.03 | 0.01 | 0.03 | — | 202 | 202 | 0.01 | < 0.005 | 0.05 | 204 |

## 2.4. Operations Emissions Compared Against Thresholds

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

| Un/Mit. | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 23.0 | 21.7 | 13.3 | 96.7 | 0.18 | 0.49 | 13.9 | 14.4 | 0.48 | 3.54 | 4.02 | 137 | 22,227 | 22,364 | 15.2 | 0.83 | 72.2 | 23,062 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 21.9 | 20.6 | 14.6 | 89.1 | 0.18 | 0.48 | 13.9 | 14.4 | 0.47 | 3.54 | 4.02 | 137 | 21,691 | 21,829 | 15.3 | 0.90 | 16.9 | 22,497 |
| Average Daily (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 21.7 | 20.6 | 11.3 | 81.2 | 0.14 | 0.34 | 11.6 | 11.9 | 0.33 | 2.95 | 3.28 | 137 | 17,252 | 17,390 | 15.1 | 0.77 | 35.8 | 18,032 |
| Annual (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 3.95 | 3.75 | 2.06 | 14.8 | 0.03 | 0.06 | 2.11 | 2.18 | 0.06 | 0.54 | 0.60 | 22.7 | 2,856 | 2,879 | 2.50 | 0.13 | 5.93 | 2,985 |

## 2.5. Operations Emissions by Sector, Unmitigated

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

| Sector | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 13.5 | 12.5 | 8.74 | 83.2 | 0.16 | 0.13 | 13.9 | 14.1 | 0.13 | 3.54 | 3.67 | — | 15,850 | 15,850 | 0.96 | 0.75 | 56.8 | 16,155 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Area | 9.29 | 9.11 | 2.48 | 12.5 | 0.01 | 0.19 | — | 0.19 | 0.19 | — | 0.19 | 0.00 | 2,965 | 2,965 | 0.06 | 0.01 | — | 2,968 |
| Energy | 0.24 | 0.12 | 2.05 | 0.99 | 0.01 | 0.16 | — | 0.16 | 0.16 | — | 0.16 | — | 3,349 | 3,349 | 0.35 | 0.02 | — | 3,364 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 17.3 | 64.0 | 81.3 | 1.78 | 0.04 | — | 139 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 120 | 0.00 | 120 | 12.0 | 0.00 | — | 420 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 15.4 | 15.4 |
| Total | 23.0 | 21.7 | 13.3 | 96.7 | 0.18 | 0.49 | 13.9 | 14.4 | 0.48 | 3.54 | 4.02 | 137 | 22,227 | 22,364 | 15.2 | 0.83 | 72.2 | 23,062 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 13.5 | 12.4 | 10.1 | 87.1 | 0.15 | 0.13 | 13.9 | 14.1 | 0.13 | 3.54 | 3.67 | — | 15,345 | 15,345 | 1.10 | 0.83 | 1.47 | 15,622 |
| Area | 8.20 | 8.08 | 2.37 | 1.05 | 0.01 | 0.19 | — | 0.19 | 0.19 | — | 0.19 | 0.00 | 2,933 | 2,933 | 0.06 | 0.01 | — | 2,937 |
| Energy | 0.24 | 0.12 | 2.05 | 0.99 | 0.01 | 0.16 | — | 0.16 | 0.16 | — | 0.16 | — | 3,349 | 3,349 | 0.35 | 0.02 | — | 3,364 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 17.3 | 64.0 | 81.3 | 1.78 | 0.04 | — | 139 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 120 | 0.00 | 120 | 12.0 | 0.00 | — | 420 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 15.4 | 15.4 |
| Total | 21.9 | 20.6 | 14.6 | 89.1 | 0.18 | 0.48 | 13.9 | 14.4 | 0.47 | 3.54 | 4.02 | 137 | 21,691 | 21,829 | 15.3 | 0.90 | 16.9 | 22,497 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 12.7 | 11.8 | 8.39 | 72.0 | 0.13 | 0.11 | 11.6 | 11.7 | 0.11 | 2.95 | 3.05 | — | 12,854 | 12,854 | 0.94 | 0.70 | 20.4 | 13,107 |
| Area | 8.77 | 8.69 | 0.86 | 8.22 | < 0.005 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | 0.00 | 986 | 986 | 0.02 | < 0.005 | — | 987 |
| Energy | 0.24 | 0.12 | 2.05 | 0.99 | 0.01 | 0.16 | — | 0.16 | 0.16 | — | 0.16 | — | 3,349 | 3,349 | 0.35 | 0.02 | — | 3,364 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 17.3 | 64.0 | 81.3 | 1.78 | 0.04 | — | 139 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 120 | 0.00 | 120 | 12.0 | 0.00 | — | 420 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 15.4 | 15.4 |
| Total | 21.7 | 20.6 | 11.3 | 81.2 | 0.14 | 0.34 | 11.6 | 11.9 | 0.33 | 2.95 | 3.28 | 137 | 17,252 | 17,390 | 15.1 | 0.77 | 35.8 | 18,032 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 2.31 | 2.15 | 1.53 | 13.1 | 0.02 | 0.02 | 2.11 | 2.13 | 0.02 | 0.54 | 0.56 | — | 2,128 | 2,128 | 0.16 | 0.12 | 3.38 | 2,170 |
| Area | 1.60 | 1.59 | 0.16 | 1.50 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 0.00 | 163 | 163 | < 0.005 | < 0.005 | — | 163 |
| Energy | 0.04 | 0.02 | 0.37 | 0.18 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 554 | 554 | 0.06 | < 0.005 | — | 557 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Water | — | — | — | — | — | — | — | — | — | — | — | 2.86 | 10.6 | 13.5 | 0.30 | 0.01 | — | 23.0 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 19.9 | 0.00 | 19.9 | 1.99 | 0.00 | — | 69.5 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.55 | 2.55 |
| Total | 3.95 | 3.75 | 2.06 | 14.8 | 0.03 | 0.06 | 2.11 | 2.18 | 0.06 | 0.54 | 0.60 | 22.7 | 2,856 | 2,879 | 2.50 | 0.13 | 5.93 | 2,985 |

# 3. Construction Emissions Details

## 3.1. Demolition (2025) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 2.86 | 2.40 | 22.2 | 19.9 | 0.03 | 0.92 | — | 0.92 | 0.84 | — | 0.84 | — | 3,425 | 3,425 | 0.14 | 0.03 | — | 3,437 |
| Demolition | — | — | — | — | — | — | 1.76 | 1.76 | — | 0.27 | 0.27 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.16 | 0.14 | 1.28 | 1.15 | < 0.005 | 0.05 | — | 0.05 | 0.05 | — | 0.05 | — | 197 | 197 | 0.01 | < 0.005 | — | 198 |
| Demolition | — | — | — | — | — | — | 0.10 | 0.10 | — | 0.02 | 0.02 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.03 | 0.23 | 0.21 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 32.6 | 32.6 | < 0.005 | < 0.005 | — | 32.7 |
| Demolition | — | — | — | — | — | — | 0.02 | 0.02 | — | < 0.005 | < 0.005 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.08 | 0.07 | 0.07 | 0.73 | 0.00 | 0.00 | 0.10 | 0.10 | 0.00 | 0.02 | 0.02 | — | 106 | 106 | 0.01 | < 0.005 | 0.01 | 108 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.32 | 0.06 | 4.50 | 1.72 | 0.03 | 0.04 | 0.60 | 0.65 | 0.03 | 0.17 | 0.19 | — | 2,668 | 2,668 | 0.25 | 0.42 | 0.12 | 2,800 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.04 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 6.11 | 6.11 | < 0.005 | < 0.005 | 0.01 | 6.21 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.02 | < 0.005 | 0.26 | 0.10 | < 0.005 | < 0.005 | 0.03 | 0.04 | < 0.005 | 0.01 | 0.01 | — | 153 | 153 | 0.01 | 0.02 | 0.12 | 161 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.01 | 1.01 | < 0.005 | < 0.005 | < 0.005 | 1.03 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | < 0.005 | 0.05 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 25.4 | 25.4 | < 0.005 | < 0.005 | 0.02 | 26.7 |

## 3.3. Site Preparation (2025) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 3.94 | 3.31 | 31.6 | 30.2 | 0.05 | 1.37 | — | 1.37 | 1.26 | — | 1.26 | — | 5,295 | 5,295 | 0.21 | 0.04 | — | 5,314 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.23 | 0.19 | 1.82 | 1.74 | < 0.005 | 0.08 | — | 0.08 | 0.07 | — | 0.07 | — | 305 | 305 | 0.01 | < 0.005 | — | 306 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.03 | 0.33 | 0.32 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 50.4 | 50.4 | < 0.005 | < 0.005 | — | 50.6 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.10 | 0.08 | 0.08 | 0.85 | 0.00 | 0.00 | 0.12 | 0.12 | 0.00 | 0.03 | 0.03 | — | 124 | 124 | 0.01 | 0.01 | 0.01 | 126 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | < 0.005 | < 0.005 | 0.05 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 7.12 | 7.12 | < 0.005 | < 0.005 | 0.01 | 7.24 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.18 | 1.18 | < 0.005 | < 0.005 | < 0.005 | 1.20 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.5. Grading (2025) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 3.80 | 3.20 | 29.7 | 28.3 | 0.06 | 1.23 | — | 1.23 | 1.14 | — | 1.14 | — | 6,599 | 6,599 | 0.27 | 0.05 | — | 6,622 |
| Dust From Material Movement | — | — | — | — | — | — | 3.59 | 3.59 | — | 1.43 | 1.43 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 3.80 | 3.20 | 29.7 | 28.3 | 0.06 | 1.23 | — | 1.23 | 1.14 | — | 1.14 | — | 6,599 | 6,599 | 0.27 | 0.05 | — | 6,622 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dust From Material Movement | — | — | — | — | — | — | 3.59 | 3.59 | — | 1.43 | 1.43 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.71 | 0.60 | 5.53 | 5.27 | 0.01 | 0.23 | — | 0.23 | 0.21 | — | 0.21 | — | 1,229 | 1,229 | 0.05 | 0.01 | — | 1,234 |
| Dust From Material Movement | — | — | — | — | — | — | 0.67 | 0.67 | — | 0.27 | 0.27 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.13 | 0.11 | 1.01 | 0.96 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 204 | 204 | 0.01 | < 0.005 | — | 204 |
| Dust From Material Movement | — | — | — | — | — | — | 0.12 | 0.12 | — | 0.05 | 0.05 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.11 | 0.10 | 0.07 | 0.99 | 0.00 | 0.00 | 0.14 | 0.14 | 0.00 | 0.03 | 0.03 | — | 148 | 148 | 0.01 | 0.01 | 0.64 | 150 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.03 | 0.01 | 0.41 | 0.16 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 257 | 257 | 0.02 | 0.04 | 0.46 | 270 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Worker | 0.11 | 0.10 | 0.09 | 0.97 | 0.00 | 0.00 | 0.14 | 0.14 | 0.00 | 0.03 | 0.03 | — | 141 | 141 | 0.01 | 0.01 | 0.02 | 144 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.03 | 0.01 | 0.43 | 0.17 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 257 | 257 | 0.02 | 0.04 | 0.01 | 269 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.02 | 0.02 | 0.17 | 0.00 | 0.00 | 0.03 | 0.03 | 0.00 | 0.01 | 0.01 | — | 26.4 | 26.4 | < 0.005 | < 0.005 | 0.05 | 26.8 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.01 | < 0.005 | 0.08 | 0.03 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 47.8 | 47.8 | < 0.005 | 0.01 | 0.04 | 50.2 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 4.36 | 4.36 | < 0.005 | < 0.005 | 0.01 | 4.44 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 7.91 | 7.91 | < 0.005 | < 0.005 | 0.01 | 8.31 |

## 3.7. Building Construction (2025) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.35 | 1.13 | 10.4 | 13.0 | 0.02 | 0.43 | — | 0.43 | 0.40 | — | 0.40 | — | 2,398 | 2,398 | 0.10 | 0.02 | — | 2,406 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.35 | 1.13 | 10.4 | 13.0 | 0.02 | 0.43 | — | 0.43 | 0.40 | — | 0.40 | — | 2,398 | 2,398 | 0.10 | 0.02 | — | 2,406 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.56 | 0.47 | 4.31 | 5.38 | 0.01 | 0.18 | — | 0.18 | 0.16 | — | 0.16 | — | 990 | 990 | 0.04 | 0.01 | — | 993 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.10 | 0.08 | 0.79 | 0.98 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 164 | 164 | 0.01 | < 0.005 | — | 164 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.50 | 0.46 | 0.34 | 4.62 | 0.00 | 0.00 | 0.64 | 0.64 | 0.00 | 0.15 | 0.15 | — | 691 | 691 | 0.04 | 0.03 | 2.98 | 703 |
| Vendor | 0.06 | 0.02 | 0.81 | 0.34 | < 0.005 | 0.01 | 0.12 | 0.12 | 0.01 | 0.03 | 0.04 | — | 472 | 472 | 0.03 | 0.07 | 1.16 | 496 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.51 | 0.45 | 0.42 | 4.55 | 0.00 | 0.00 | 0.64 | 0.64 | 0.00 | 0.15 | 0.15 | — | 661 | 661 | 0.05 | 0.03 | 0.08 | 671 |
| Vendor | 0.05 | 0.02 | 0.84 | 0.35 | < 0.005 | 0.01 | 0.12 | 0.12 | 0.01 | 0.03 | 0.04 | — | 472 | 472 | 0.03 | 0.07 | 0.03 | 495 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.20 | 0.18 | 0.16 | 1.78 | 0.00 | 0.00 | 0.26 | 0.26 | 0.00 | 0.06 | 0.06 | — | 273 | 273 | 0.02 | 0.01 | 0.53 | 278 |
| Vendor | 0.02 | 0.01 | 0.34 | 0.14 | < 0.005 | < 0.005 | 0.05 | 0.05 | < 0.005 | 0.01 | 0.02 | — | 195 | 195 | 0.01 | 0.03 | 0.21 | 204 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Worker | 0.04 | 0.03 | 0.03 | 0.32 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01 | 0.01 | — | 45.2 | 45.2 | < 0.005 | < 0.005 | 0.09 | 46.0 |
| Vendor | < 0.005 | < 0.005 | 0.06 | 0.03 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 32.3 | 32.3 | < 0.005 | < 0.005 | 0.03 | 33.8 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.9. 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 | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.28 | 1.07 | 9.85 | 13.0 | 0.02 | 0.38 | — | 0.38 | 0.35 | — | 0.35 | — | 2,397 | 2,397 | 0.10 | 0.02 | — | 2,405 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.28 | 1.07 | 9.85 | 13.0 | 0.02 | 0.38 | — | 0.38 | 0.35 | — | 0.35 | — | 2,397 | 2,397 | 0.10 | 0.02 | — | 2,405 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.91 | 0.77 | 7.04 | 9.26 | 0.02 | 0.27 | — | 0.27 | 0.25 | — | 0.25 | — | 1,712 | 1,712 | 0.07 | 0.01 | — | 1,718 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.17 | 0.14 | 1.28 | 1.69 | < 0.005 | 0.05 | — | 0.05 | 0.05 | — | 0.05 | — | 283 | 283 | 0.01 | < 0.005 | — | 284 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.47 | 0.44 | 0.30 | 4.32 | 0.00 | 0.00 | 0.64 | 0.64 | 0.00 | 0.15 | 0.15 | — | 679 | 679 | 0.04 | 0.03 | 2.78 | 691 |
| Vendor | 0.05 | 0.02 | 0.77 | 0.33 | < 0.005 | 0.01 | 0.12 | 0.12 | 0.01 | 0.03 | 0.04 | — | 465 | 465 | 0.03 | 0.07 | 1.07 | 487 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.47 | 0.44 | 0.39 | 4.28 | 0.00 | 0.00 | 0.64 | 0.64 | 0.00 | 0.15 | 0.15 | — | 650 | 650 | 0.05 | 0.03 | 0.07 | 660 |
| Vendor | 0.05 | 0.02 | 0.80 | 0.34 | < 0.005 | 0.01 | 0.12 | 0.12 | 0.01 | 0.03 | 0.04 | — | 465 | 465 | 0.03 | 0.07 | 0.03 | 486 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.33 | 0.30 | 0.25 | 2.88 | 0.00 | 0.00 | 0.46 | 0.46 | 0.00 | 0.11 | 0.11 | — | 464 | 464 | 0.03 | 0.02 | 0.86 | 472 |
| Vendor | 0.04 | 0.01 | 0.56 | 0.24 | < 0.005 | < 0.005 | 0.08 | 0.09 | < 0.005 | 0.02 | 0.03 | — | 332 | 332 | 0.02 | 0.05 | 0.33 | 348 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.06 | 0.06 | 0.05 | 0.53 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.02 | 0.02 | — | 76.9 | 76.9 | 0.01 | < 0.005 | 0.14 | 78.2 |
| Vendor | 0.01 | < 0.005 | 0.10 | 0.04 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | — | 55.0 | 55.0 | < 0.005 | 0.01 | 0.05 | 57.6 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.11. 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 | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.23 | 1.03 | 9.39 | 12.9 | 0.02 | 0.34 | — | 0.34 | 0.31 | — | 0.31 | — | 2,397 | 2,397 | 0.10 | 0.02 | — | 2,405 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.23 | 1.03 | 9.39 | 12.9 | 0.02 | 0.34 | — | 0.34 | 0.31 | — | 0.31 | — | 2,397 | 2,397 | 0.10 | 0.02 | — | 2,405 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.88 | 0.74 | 6.71 | 9.24 | 0.02 | 0.24 | — | 0.24 | 0.22 | — | 0.22 | — | 1,712 | 1,712 | 0.07 | 0.01 | — | 1,718 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.16 | 0.13 | 1.22 | 1.69 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 283 | 283 | 0.01 | < 0.005 | — | 284 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.45 | 0.42 | 0.29 | 4.07 | 0.00 | 0.00 | 0.64 | 0.64 | 0.00 | 0.15 | 0.15 | — | 667 | 667 | 0.04 | 0.03 | 2.59 | 679 |
| Vendor | 0.05 | 0.02 | 0.73 | 0.31 | < 0.005 | 0.01 | 0.12 | 0.12 | 0.01 | 0.03 | 0.04 | — | 456 | 456 | 0.03 | 0.07 | 0.99 | 478 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.46 | 0.42 | 0.37 | 4.03 | 0.00 | 0.00 | 0.64 | 0.64 | 0.00 | 0.15 | 0.15 | — | 639 | 639 | 0.04 | 0.03 | 0.07 | 649 |
| Vendor | 0.05 | 0.02 | 0.75 | 0.32 | < 0.005 | 0.01 | 0.12 | 0.12 | 0.01 | 0.03 | 0.04 | — | 456 | 456 | 0.03 | 0.07 | 0.03 | 477 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.32 | 0.30 | 0.23 | 2.72 | 0.00 | 0.00 | 0.46 | 0.46 | 0.00 | 0.11 | 0.11 | — | 456 | 456 | 0.03 | 0.02 | 0.80 | 464 |
| Vendor | 0.03 | 0.01 | 0.53 | 0.23 | < 0.005 | < 0.005 | 0.08 | 0.09 | < 0.005 | 0.02 | 0.03 | — | 326 | 326 | 0.02 | 0.05 | 0.30 | 341 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.06 | 0.05 | 0.04 | 0.50 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.02 | 0.02 | — | 75.6 | 75.6 | 0.01 | < 0.005 | 0.13 | 76.8 |
| Vendor | 0.01 | < 0.005 | 0.10 | 0.04 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | — | 53.9 | 53.9 | < 0.005 | 0.01 | 0.05 | 56.5 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.13. Building Construction (2028) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.18 | 0.99 | 8.92 | 12.9 | 0.02 | 0.30 | — | 0.30 | 0.28 | — | 0.28 | — | 2,397 | 2,397 | 0.10 | 0.02 | — | 2,406 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.19 | 0.16 | 1.41 | 2.05 | < 0.005 | 0.05 | — | 0.05 | 0.04 | — | 0.04 | — | 380 | 380 | 0.02 | < 0.005 | — | 381 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.03 | 0.26 | 0.37 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 62.9 | 62.9 | < 0.005 | < 0.005 | — | 63.1 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.44 | 0.39 | 0.32 | 3.80 | 0.00 | 0.00 | 0.64 | 0.64 | 0.00 | 0.15 | 0.15 | — | 628 | 628 | 0.04 | 0.03 | 0.06 | 638 |
| Vendor | 0.04 | 0.02 | 0.71 | 0.31 | < 0.005 | 0.01 | 0.12 | 0.12 | 0.01 | 0.03 | 0.04 | — | 445 | 445 | 0.03 | 0.07 | 0.02 | 466 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.07 | 0.06 | 0.05 | 0.57 | 0.00 | 0.00 | 0.10 | 0.10 | 0.00 | 0.02 | 0.02 | — | 99.6 | 99.6 | 0.01 | < 0.005 | 0.16 | 101 |
| Vendor | 0.01 | < 0.005 | 0.11 | 0.05 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.01 | — | 70.6 | 70.6 | < 0.005 | 0.01 | 0.06 | 73.9 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | 0.01 | 0.10 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | < 0.005 | < 0.005 | — | 16.5 | 16.5 | < 0.005 | < 0.005 | 0.03 | 16.8 |
| Vendor | < 0.005 | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 11.7 | 11.7 | < 0.005 | < 0.005 | 0.01 | 12.2 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.15. Paving (2028) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.82 | 0.69 | 6.63 | 9.91 | 0.01 | 0.26 | — | 0.26 | 0.24 | — | 0.24 | — | 1,511 | 1,511 | 0.06 | 0.01 | — | 1,516 |
| Paving | 0.00 | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.82 | 0.69 | 6.63 | 9.91 | 0.01 | 0.26 | — | 0.26 | 0.24 | — | 0.24 | — | 1,511 | 1,511 | 0.06 | 0.01 | — | 1,516 |
| Paving | 0.00 | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.32 | 0.27 | 2.61 | 3.91 | 0.01 | 0.10 | — | 0.10 | 0.09 | — | 0.09 | — | 596 | 596 | 0.02 | < 0.005 | — | 598 |
| Paving | 0.00 | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.06 | 0.05 | 0.48 | 0.71 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 98.7 | 98.7 | < 0.005 | < 0.005 | — | 99.0 |
| Paving | 0.00 | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.07 | 0.07 | 0.04 | 0.62 | 0.00 | 0.00 | 0.10 | 0.10 | 0.00 | 0.02 | 0.02 | — | 105 | 105 | 0.01 | < 0.005 | 0.38 | 107 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.07 | 0.06 | 0.05 | 0.61 | 0.00 | 0.00 | 0.10 | 0.10 | 0.00 | 0.02 | 0.02 | — | 101 | 101 | 0.01 | < 0.005 | 0.01 | 102 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.02 | 0.02 | 0.23 | 0.00 | 0.00 | 0.04 | 0.04 | 0.00 | 0.01 | 0.01 | — | 39.8 | 39.8 | < 0.005 | < 0.005 | 0.07 | 40.4 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.04 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 6.58 | 6.58 | < 0.005 | < 0.005 | 0.01 | 6.69 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.17. Architectural Coating (2028) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.13 | 0.11 | 0.81 | 1.12 | < 0.005 | 0.02 | — | 0.02 | 0.01 | — | 0.01 | — | 134 | 134 | 0.01 | < 0.005 | — | 134 |
| Architectural Coatings | 178 | 178 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.13 | 0.11 | 0.81 | 1.12 | < 0.005 | 0.02 | — | 0.02 | 0.01 | — | 0.01 | — | 134 | 134 | 0.01 | < 0.005 | — | 134 |
| Architectural Coatings | 178 | 178 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.01 | 0.11 | 0.15 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 18.3 | 18.3 | < 0.005 | < 0.005 | — | 18.4 |
| Architectural Coatings | 24.4 | 24.4 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | 0.02 | 0.03 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 3.03 | 3.03 | < 0.005 | < 0.005 | — | 3.04 |
| Architectural Coatings | 4.45 | 4.45 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.09 | 0.08 | 0.05 | 0.77 | 0.00 | 0.00 | 0.13 | 0.13 | 0.00 | 0.03 | 0.03 | — | 131 | 131 | 0.01 | 0.01 | 0.48 | 133 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.09 | 0.08 | 0.06 | 0.76 | 0.00 | 0.00 | 0.13 | 0.13 | 0.00 | 0.03 | 0.03 | — | 126 | 126 | 0.01 | 0.01 | 0.01 | 128 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | 0.01 | 0.10 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | < 0.005 | < 0.005 | — | 17.2 | 17.2 | < 0.005 | < 0.005 | 0.03 | 17.5 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.85 | 2.85 | < 0.005 | < 0.005 | < 0.005 | 2.90 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

# 4. Operations Emissions Details

## 4.1. Mobile Emissions by Land Use

### 4.1.1. Unmitigated

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

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | 1.41 | 1.30 | 0.94 | 8.92 | 0.02 | 0.01 | 1.51 | 1.52 | 0.01 | 0.38 | 0.40 | — | 1,715 | 1,715 | 0.10 | 0.08 | 6.15 | 1,748 |
| Single Family Housing | 6.66 | 6.16 | 4.43 | 42.2 | 0.08 | 0.07 | 7.15 | 7.22 | 0.06 | 1.82 | 1.88 | — | 8,127 | 8,127 | 0.48 | 0.38 | 29.2 | 8,282 |
| Fast Food Restaurant with Drive Thru | 2.39 | 2.22 | 1.49 | 14.1 | 0.03 | 0.02 | 2.32 | 2.34 | 0.02 | 0.59 | 0.61 | — | 2,645 | 2,645 | 0.17 | 0.13 | 9.46 | 2,697 |
| High Turnover (Sit Down Restaurant) | 3.04 | 2.83 | 1.89 | 17.9 | 0.03 | 0.03 | 2.95 | 2.98 | 0.03 | 0.75 | 0.78 | — | 3,362 | 3,362 | 0.21 | 0.16 | 12.0 | 3,428 |
| Total | 13.5 | 12.5 | 8.74 | 83.2 | 0.16 | 0.13 | 13.9 | 14.1 | 0.13 | 3.54 | 3.67 | — | 15,850 | 15,850 | 0.96 | 0.75 | 56.8 | 16,155 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | 1.41 | 1.29 | 1.09 | 9.29 | 0.02 | 0.01 | 1.51 | 1.52 | 0.01 | 0.38 | 0.40 | — | 1,660 | 1,660 | 0.12 | 0.09 | 0.16 | 1,690 |
| Single Family Housing | 6.67 | 6.13 | 5.14 | 44.0 | 0.08 | 0.07 | 7.15 | 7.22 | 0.06 | 1.82 | 1.88 | — | 7,868 | 7,868 | 0.55 | 0.42 | 0.76 | 8,008 |
| Fast Food Restaurant with Drive Thru | 2.39 | 2.21 | 1.72 | 14.9 | 0.03 | 0.02 | 2.32 | 2.34 | 0.02 | 0.59 | 0.61 | — | 2,562 | 2,562 | 0.19 | 0.14 | 0.25 | 2,609 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| High Turnover (Sit Down Restaurant) | 3.04 | 2.81 | 2.19 | 18.9 | 0.03 | 0.03 | 2.95 | 2.98 | 0.03 | 0.75 | 0.78 | — | 3,255 | 3,255 | 0.24 | 0.18 | 0.31 | 3,315 |
| Total | 13.5 | 12.4 | 10.1 | 87.1 | 0.15 | 0.13 | 13.9 | 14.1 | 0.13 | 3.54 | 3.67 | — | 15,345 | 15,345 | 1.10 | 0.83 | 1.47 | 15,622 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | 0.25 | 0.23 | 0.19 | 1.60 | < 0.005 | < 0.005 | 0.28 | 0.28 | < 0.005 | 0.07 | 0.07 | — | 275 | 275 | 0.02 | 0.01 | 0.44 | 280 |
| Single Family Housing | 1.20 | 1.10 | 0.89 | 7.58 | 0.01 | 0.01 | 1.30 | 1.32 | 0.01 | 0.33 | 0.34 | — | 1,303 | 1,303 | 0.09 | 0.07 | 2.09 | 1,327 |
| Fast Food Restaurant with Drive Thru | 0.38 | 0.36 | 0.19 | 1.70 | < 0.005 | < 0.005 | 0.22 | 0.23 | < 0.005 | 0.06 | 0.06 | — | 232 | 232 | 0.02 | 0.01 | 0.36 | 237 |
| High Turnover (Sit Down Restaurant) | 0.48 | 0.46 | 0.26 | 2.27 | < 0.005 | < 0.005 | 0.31 | 0.31 | < 0.005 | 0.08 | 0.08 | — | 319 | 319 | 0.03 | 0.02 | 0.50 | 326 |
| Total | 2.31 | 2.15 | 1.53 | 13.1 | 0.02 | 0.02 | 2.11 | 2.13 | 0.02 | 0.54 | 0.56 | — | 2,128 | 2,128 | 0.16 | 0.12 | 3.38 | 2,170 |

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

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

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | 89.6 | 89.6 | 0.01 | < 0.005 | — | 90.5 |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | — | 481 | 481 | 0.08 | 0.01 | — | 486 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | — | 35.6 | 35.6 | 0.01 | < 0.005 | — | 35.9 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | — | — | 163 | 163 | 0.03 | < 0.005 | — | 164 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 769 | 769 | 0.12 | 0.02 | — | 776 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | 89.6 | 89.6 | 0.01 | < 0.005 | — | 90.5 |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | — | 481 | 481 | 0.08 | 0.01 | — | 486 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | — | 35.6 | 35.6 | 0.01 | < 0.005 | — | 35.9 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | — | — | 163 | 163 | 0.03 | < 0.005 | — | 164 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 769 | 769 | 0.12 | 0.02 | — | 776 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Apartment Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | 14.8 | 14.8 | < 0.005 | < 0.005 | — | 15.0 |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | — | 79.7 | 79.7 | 0.01 | < 0.005 | — | 80.5 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | — | 5.89 | 5.89 | < 0.005 | < 0.005 | — | 5.95 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | — | — | 26.9 | 26.9 | < 0.005 | < 0.005 | — | 27.2 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 127 | 127 | 0.02 | < 0.005 | — | 129 |

### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | 0.04 | 0.02 | 0.34 | 0.15 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 433 | 433 | 0.04 | < 0.005 | — | 434 |
| Single Family Housing | 0.17 | 0.08 | 1.43 | 0.61 | 0.01 | 0.12 | — | 0.12 | 0.12 | — | 0.12 | — | 1,816 | 1,816 | 0.16 | < 0.005 | — | 1,821 |
| Fast Food Restaurant with Drive Thru | 0.01 | < 0.005 | 0.05 | 0.04 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 59.5 | 59.5 | 0.01 | < 0.005 | — | 59.7 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| High Turnover (Sit Down Restaurant) | 0.03 | 0.01 | 0.23 | 0.19 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 272 | 272 | 0.02 | < 0.005 | — | 273 |
| Total | 0.24 | 0.12 | 2.05 | 0.99 | 0.01 | 0.16 | — | 0.16 | 0.16 | — | 0.16 | — | 2,580 | 2,580 | 0.23 | < 0.005 | — | 2,587 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | 0.04 | 0.02 | 0.34 | 0.15 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 433 | 433 | 0.04 | < 0.005 | — | 434 |
| Single Family Housing | 0.17 | 0.08 | 1.43 | 0.61 | 0.01 | 0.12 | — | 0.12 | 0.12 | — | 0.12 | — | 1,816 | 1,816 | 0.16 | < 0.005 | — | 1,821 |
| Fast Food Restaurant with Drive Thru | 0.01 | < 0.005 | 0.05 | 0.04 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 59.5 | 59.5 | 0.01 | < 0.005 | — | 59.7 |
| High Turnover (Sit Down Restaurant) | 0.03 | 0.01 | 0.23 | 0.19 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 272 | 272 | 0.02 | < 0.005 | — | 273 |
| Total | 0.24 | 0.12 | 2.05 | 0.99 | 0.01 | 0.16 | — | 0.16 | 0.16 | — | 0.16 | — | 2,580 | 2,580 | 0.23 | < 0.005 | — | 2,587 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | 0.01 | < 0.005 | 0.06 | 0.03 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 71.6 | 71.6 | 0.01 | < 0.005 | — | 71.8 |
| Single Family Housing | 0.03 | 0.02 | 0.26 | 0.11 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 301 | 301 | 0.03 | < 0.005 | — | 301 |
| Fast Food Restaurant with Drive Thru | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 9.86 | 9.86 | < 0.005 | < 0.005 | — | 9.89 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| High Turnover (Sit Down Restaurant) | < 0.005 | < 0.005 | 0.04 | 0.03 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 45.0 | 45.0 | < 0.005 | < 0.005 | — | 45.1 |
| Total | 0.04 | 0.02 | 0.37 | 0.18 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 427 | 427 | 0.04 | < 0.005 | — | 428 |

## 4.3. Area Emissions by Source

### 4.3.1. Unmitigated

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

| Source | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 0.27 | 0.14 | 2.37 | 1.05 | 0.01 | 0.19 | — | 0.19 | 0.19 | — | 0.19 | 0.00 | 2,933 | 2,933 | 0.06 | 0.01 | — | 2,937 |
| Consumer Products | 7.21 | 7.21 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.72 | 0.72 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 1.10 | 1.04 | 0.11 | 11.5 | < 0.005 | 0.01 | — | 0.01 | < 0.005 | — | < 0.005 | — | 31.2 | 31.2 | < 0.005 | < 0.005 | — | 31.3 |
| Total | 9.29 | 9.11 | 2.48 | 12.5 | 0.01 | 0.19 | — | 0.19 | 0.19 | — | 0.19 | 0.00 | 2,965 | 2,965 | 0.06 | 0.01 | — | 2,968 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 0.27 | 0.14 | 2.37 | 1.05 | 0.01 | 0.19 | — | 0.19 | 0.19 | — | 0.19 | 0.00 | 2,933 | 2,933 | 0.06 | 0.01 | — | 2,937 |
| Consumer Products | 7.21 | 7.21 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Architect Coatings | 0.72 | 0.72 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | 8.20 | 8.08 | 2.37 | 1.05 | 0.01 | 0.19 | — | 0.19 | 0.19 | — | 0.19 | 0.00 | 2,933 | 2,933 | 0.06 | 0.01 | — | 2,937 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 0.02 | 0.01 | 0.14 | 0.06 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 0.00 | 160 | 160 | < 0.005 | < 0.005 | — | 160 |
| Consumer Products | 1.32 | 1.32 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.13 | 0.13 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 0.14 | 0.13 | 0.01 | 1.44 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 3.54 | 3.54 | < 0.005 | < 0.005 | — | 3.55 |
| Total | 1.60 | 1.59 | 0.16 | 1.50 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 0.00 | 163 | 163 | < 0.005 | < 0.005 | — | 163 |

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

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

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 3.43 | 5.41 | 8.83 | 0.35 | 0.01 | — | 20.2 |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | 9.01 | 50.9 | 59.9 | 0.93 | 0.02 | — | 90.1 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 0.87 | 1.38 | 2.25 | 0.09 | < 0.005 | — | 5.13 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | — | 3.98 | 6.29 | 10.3 | 0.41 | 0.01 | — | 23.4 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 17.3 | 64.0 | 81.3 | 1.78 | 0.04 | — | 139 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 3.43 | 5.41 | 8.83 | 0.35 | 0.01 | — | 20.2 |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | 9.01 | 50.9 | 59.9 | 0.93 | 0.02 | — | 90.1 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 0.87 | 1.38 | 2.25 | 0.09 | < 0.005 | — | 5.13 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | — | 3.98 | 6.29 | 10.3 | 0.41 | 0.01 | — | 23.4 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 17.3 | 64.0 | 81.3 | 1.78 | 0.04 | — | 139 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 0.57 | 0.90 | 1.46 | 0.06 | < 0.005 | — | 3.34 |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | 1.49 | 8.43 | 9.92 | 0.15 | < 0.005 | — | 14.9 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 0.14 | 0.23 | 0.37 | 0.01 | < 0.005 | — | 0.85 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | — | 0.66 | 1.04 | 1.70 | 0.07 | < 0.005 | — | 3.88 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 2.86 | 10.6 | 13.5 | 0.30 | 0.01 | — | 23.0 |

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

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

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 21.5 | 0.00 | 21.5 | 2.15 | 0.00 | — | 75.3 |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | 45.3 | 0.00 | 45.3 | 4.53 | 0.00 | — | 158 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 9.31 | 0.00 | 9.31 | 0.93 | 0.00 | — | 32.6 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | — | 43.9 | 0.00 | 43.9 | 4.39 | 0.00 | — | 154 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | — | — | — | — | — | — | — | — | — | — | — | 120 | 0.00 | 120 | 12.0 | 0.00 | — | 420 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 21.5 | 0.00 | 21.5 | 2.15 | 0.00 | — | 75.3 |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | 45.3 | 0.00 | 45.3 | 4.53 | 0.00 | — | 158 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 9.31 | 0.00 | 9.31 | 0.93 | 0.00 | — | 32.6 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | — | 43.9 | 0.00 | 43.9 | 4.39 | 0.00 | — | 154 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 120 | 0.00 | 120 | 12.0 | 0.00 | — | 420 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 3.56 | 0.00 | 3.56 | 0.36 | 0.00 | — | 12.5 |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | 7.50 | 0.00 | 7.50 | 0.75 | 0.00 | — | 26.2 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 1.54 | 0.00 | 1.54 | 0.15 | 0.00 | — | 5.39 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | — | 7.27 | 0.00 | 7.27 | 0.73 | 0.00 | — | 25.4 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | — | — | — | — | — | — | — | — | — | — | — | 19.9 | 0.00 | 19.9 | 1.99 | 0.00 | — | 69.5 |

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

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

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.37 | 0.37 |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.98 | 1.98 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.34 | 2.34 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.7 | 10.7 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 15.4 | 15.4 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.37 | 0.37 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.98 | 1.98 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.34 | 2.34 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.7 | 10.7 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 15.4 | 15.4 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.06 | 0.06 |
| Single Family Housing | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.33 | 0.33 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.39 | 0.39 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.77 | 1.77 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.55 | 2.55 |

## 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)

| Equipme Type | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.8. Stationary Emissions By Equipment Type

### 4.8.1. Unmitigated

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

| Equipment Type | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.9. User Defined Emissions By Equipment Type

### 4.9.1. Unmitigated

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

| Equipment Type | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.10. Soil Carbon Accumulation By Vegetation Type

### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

| Vegetation | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

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

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

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

### 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

| Species | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Remove | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 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 | 1/1/2025 | 1/29/2025 | 5.00 | 21.0 | — |
| Site Preparation | Site Preparation | 1/30/2025 | 2/27/2025 | 5.00 | 21.0 | — |
| Grading | Grading | 2/28/2025 | 6/3/2025 | 5.00 | 68.0 | — |
| Building Construction | Building Construction | 6/4/2025 | 3/21/2028 | 5.00 | 730 | — |
| Paving | Paving | 3/22/2028 | 10/9/2028 | 5.00 | 144 | — |
| Architectural Coating | Architectural Coating | 8/1/2028 | 10/9/2028 | 5.00 | 50.0 | — |

## 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 | 2.00 | 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 | Scrapers | Diesel | Average | 2.00 | 8.00 | 423 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Average | 2.00 | 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/Backh | 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 |

## 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 | 9.71 | LDA,LDT1,LDT2 |
| Demolition | Vendor | — | 6.06 | HHDT,MHDT |
| Demolition | Hauling | 32.6 | 20.0 | HHDT |
| Demolition | Onsite truck | — | — | HHDT |
| Site Preparation | — | — | — | — |
| Site Preparation | Worker | 17.5 | 9.71 | LDA,LDT1,LDT2 |
| Site Preparation | Vendor | — | 6.06 | HHDT,MHDT |
| Site Preparation | Hauling | 0.00 | 20.0 | HHDT |
| Site Preparation | Onsite truck | — | — | HHDT |
| Grading | — | — | — | — |
| Grading | Worker | 20.0 | 9.71 | LDA,LDT1,LDT2 |
| Grading | Vendor | — | 6.06 | HHDT,MHDT |
| Grading | Hauling | 3.13 | 20.0 | HHDT |
| Grading | Onsite truck | — | — | HHDT |
| Building Construction | — | — | — | — |

| | | | | |
|---|---|---|---|---|
| Building Construction | Worker | 93.5 | 9.71 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 22.3 | 6.06 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction | Onsite truck | — | — | HHDT |
| Paving | — | — | — | — |
| Paving | Worker | 15.0 | 9.71 | LDA,LDT1,LDT2 |
| Paving | Vendor | — | 6.06 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | — | — | HHDT |
| Architectural Coating | — | — | — | — |
| Architectural Coating | Worker | 18.7 | 9.71 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | — | 6.06 | HHDT,MHDT |
| Architectural Coating | Hauling | 0.00 | 20.0 | HHDT |
| Architectural Coating | Onsite truck | — | — | HHDT |

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

| Control Strategies Applied | PM10 Reduction | PM2.5 Reduction |
|---|---|---|
| Water unpaved roads twice daily | 55% | 55% |
| Limit vehicle speeds on unpaved roads to 25 mph | 44% | 44% |

## 5.5. Architectural Coatings

| Phase Name | Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|---|---|---|---|---|---|
| Architectural Coating | 665,699 | 221,900 | 12,525 | 4,175 | — |

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

| Phase Name | Material Imported (Cubic Yards) | Material Exported (Cubic Yards) | Acres Graded (acres) | Material Demolished (Ton of Debris) | Acres Paved (acres) |
|---|---|---|---|---|---|
| Demolition | 0.00 | 0.00 | 0.00 | 2,735 | — |
| Grading | 1,700 | — | 84.0 | 0.00 | — |
| Paving | 0.00 | 0.00 | 0.00 | 0.00 | 1.56 |

### 5.6.2. Construction Earthmoving Control Strategies

| Control Strategies Applied | Frequency (per day) | PM10 Reduction | PM2.5 Reduction |
|---|---|---|---|
| Water Exposed Area | 2 | 61% | 61% |
| Water Demolished Area | 2 | 36% | 36% |

## 5.7. Construction Paving

| Land Use | Area Paved (acres) | % Asphalt |
|---|---|---|
| Apartments Mid Rise | — | 0% |
| Single Family Housing | 1.56 | 0% |
| Fast Food Restaurant with Drive Thru | 0.00 | 0% |
| High Turnover (Sit Down Restaurant) | 0.00 | 0% |
| High Turnover (Sit Down Restaurant) | 0.00 | 0% |

## 5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4 | N2O |
|---|---|---|---|---|
| 2025 | 0.00 | 204 | 0.03 | < 0.005 |

| | | | | |
|---|---|---|---|---|
| 2026 | 0.00 | 204 | 0.03 | < 0.005 |
| 2027 | 0.00 | 204 | 0.03 | < 0.005 |
| 2028 | 0.00 | 204 | 0.03 | < 0.005 |

## 5.9. Operational Mobile Sources

### 5.9.1. Unmitigated

| Land Use Type | Trips/Weekday | Trips/Saturday | Trips/Sunday | Trips/Year | VMT/Weekday | VMT/Saturday | VMT/Sunday | VMT/Year |
|---|---|---|---|---|---|---|---|---|
| Apartments Mid Rise | 272 | 272 | 272 | 99,279 | 2,120 | 2,120 | 2,120 | 773,742 |
| Single Family Housing | 1,289 | 1,289 | 1,289 | 470,485 | 10,046 | 10,046 | 10,046 | 3,666,764 |
| Fast Food Restaurant with Drive Thru | 480 | 480 | 480 | 175,200 | 1,117 | 3,257 | 3,257 | 630,914 |
| High Turnover (Sit Down Restaurant) | 170 | 170 | 170 | 62,050 | 472 | 1,153 | 1,153 | 243,450 |
| High Turnover (Sit Down Restaurant) | 440 | 440 | 440 | 160,600 | 1,223 | 2,985 | 2,985 | 630,105 |

## 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

| Hearth Type | Unmitigated (number) |
|---|---|
| Apartments Mid Rise | — |
| Wood Fireplaces | 0 |
| Gas Fireplaces | 54 |
| 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 |
| Single Family Housing | — |
| Wood Fireplaces | 0 |
| Gas Fireplaces | 128 |
| Propane Fireplaces | 10 |
| Electric Fireplaces | 0 |
| No Fireplaces | 0 |
| Conventional Wood Stoves | 0 |
| Catalytic Wood Stoves | 7 |
| Non-Catalytic Wood Stoves | 7 |
| Pellet Wood Stoves | 10 |

### 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) |
|---|---|---|---|---|
| 665698.5 | 221,900 | 12,525 | 4,175 | — |

### 5.10.3. Landscape Equipment

| Season | Unit | Value |
|---|---|---|
| Snow Days | day/yr | 0.00 |
| Summer Days | day/yr | 250 |

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

| Land Use | Electricity (kWh/yr) | CO2 | CH4 | N2O | Natural Gas (kBTU/yr) |
|---|---|---|---|---|---|
| Apartments Mid Rise | 160,266 | 204 | 0.0330 | 0.0040 | 1,350,339 |
| Single Family Housing | 860,996 | 204 | 0.0330 | 0.0040 | 5,665,817 |
| Fast Food Restaurant with Drive Thru | 63,679 | 204 | 0.0330 | 0.0040 | 185,803 |
| High Turnover (Sit Down Restaurant) | 116,745 | 204 | 0.0330 | 0.0040 | 340,638 |
| High Turnover (Sit Down Restaurant) | 174,056 | 204 | 0.0330 | 0.0040 | 507,860 |

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

| Land Use | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|---|---|---|
| Apartments Mid Rise | 1,788,387 | 0.00 |
| Single Family Housing | 4,702,795 | 16,963,675 |
| Fast Food Restaurant with Drive Thru | 455,301 | 0.00 |
| High Turnover (Sit Down Restaurant) | 834,718 | 0.00 |
| High Turnover (Sit Down Restaurant) | 1,244,488 | 0.00 |

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

| Land Use | Waste (ton/year) | Cogeneration (kWh/year) |
|---|---|---|

| | | |
|---|---|---|
| Apartments Mid Rise | 39.9 | — |
| Single Family Housing | 84.0 | — |
| Fast Food Restaurant with Drive Thru | 17.3 | — |
| High Turnover (Sit Down Restaurant) | 32.7 | — |
| High Turnover (Sit Down Restaurant) | 48.8 | — |

## 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 |
|---|---|---|---|---|---|---|---|
| Apartments Mid Rise | Average room A/C & Other residential A/C and heat pumps | R-410A | 2,088 | < 0.005 | 2.50 | 2.50 | 10.0 |
| Apartments Mid Rise | Household refrigerators and/or freezers | R-134a | 1,430 | 0.12 | 0.60 | 0.00 | 1.00 |
| Single Family Housing | Average room A/C & Other residential A/C and heat pumps | R-410A | 2,088 | < 0.005 | 2.50 | 2.50 | 10.0 |
| Single Family Housing | Household refrigerators and/or freezers | R-134a | 1,430 | 0.12 | 0.60 | 0.00 | 1.00 |
| Fast Food Restaurant with Drive Thru | Household refrigerators and/or freezers | R-134a | 1,430 | 0.00 | 0.60 | 0.00 | 1.00 |
| Fast Food Restaurant with Drive Thru | Other commercial A/C and heat pumps | R-410A | 2,088 | 1.80 | 4.00 | 4.00 | 18.0 |
| Fast Food Restaurant with Drive Thru | Walk-in refrigerators and freezers | R-404A | 3,922 | < 0.005 | 7.50 | 7.50 | 20.0 |
| High Turnover (Sit Down Restaurant) | Household refrigerators and/or freezers | R-134a | 1,430 | 0.00 | 0.60 | 0.00 | 1.00 |
| High Turnover (Sit Down Restaurant) | Other commercial A/C and heat pumps | R-410A | 2,088 | 1.80 | 4.00 | 4.00 | 18.0 |
| High Turnover (Sit Down Restaurant) | Walk-in refrigerators and freezers | R-404A | 3,922 | < 0.005 | 7.50 | 7.50 | 20.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| High Turnover (Sit Down Restaurant) | Household refrigerators and/or freezers | R-134a | 1,430 | 0.00 | 0.60 | 0.00 | 1.00 |
| High Turnover (Sit Down Restaurant) | Other commercial A/C and heat pumps | R-410A | 2,088 | 1.80 | 4.00 | 4.00 | 18.0 |
| High Turnover (Sit Down Restaurant) | Walk-in refrigerators and freezers | R-404A | 3,922 | < 0.005 | 7.50 | 7.50 | 20.0 |

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

| Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|---|---|---|---|---|---|---|

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

| Equipment Type | Fuel Type | Number per Day | Hours per Day | Hours per Year | Horsepower | Load Factor |
|---|---|---|---|---|---|---|

### 5.16.2. Process Boilers

| Equipment Type | Fuel Type | Number | Boiler Rating (MMBtu/hr) | Daily Heat Input (MMBtu/day) | Annual Heat Input (MMBtu/yr) |
|---|---|---|---|---|---|

## 5.17. User Defined

| Equipment Type | Fuel Type |
|---|---|

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|---|---|---|---|

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|---|---|---|

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

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

# 6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

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

| Climate Hazard | Result for Project Location | Unit |
|---|---|---|
| Temperature and Extreme Heat | 6.83 | annual days of extreme heat |
| Extreme Precipitation | 18.0 | annual days with precipitation above 20 mm |
| Sea Level Rise | — | meters of inundation depth |
| Wildfire | 5.04 | 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 | 1 | 0 | 0 | N/A |
| Wildfire | 1 | 0 | 0 | N/A |
| Flooding | N/A | N/A | N/A | N/A |
| Drought | 0 | 0 | 0 | N/A |
| Snowpack Reduction | N/A | N/A | N/A | N/A |
| Air Quality Degradation | N/A | N/A | N/A | 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 | 1 | 1 | 1 | 2 |
| Wildfire | 1 | 1 | 1 | 2 |
| Flooding | N/A | N/A | N/A | N/A |
| Drought | 1 | 1 | 1 | 2 |
| Snowpack Reduction | N/A | N/A | N/A | N/A |

| | | | | |
|---|---|---|---|---|
| Air Quality Degradation | N/A | N/A | N/A | 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 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 | 14.9 |
| AQ-PM | 3.53 |
| AQ-DPM | 25.9 |
| Drinking Water | 67.0 |
| Lead Risk Housing | 14.5 |
| Pesticides | 29.3 |
| Toxic Releases | 15.9 |
| Traffic | 71.9 |
| Effect Indicators | — |
| CleanUp Sites | 77.4 |
| Groundwater | 86.4 |
| Haz Waste Facilities/Generators | 61.6 |
| Impaired Water Bodies | 90.1 |
| Solid Waste | 0.00 |

| | |
|---|---|
| Sensitive Population | — |
| Asthma | 11.2 |
| Cardio-vascular | 17.5 |
| Low Birth Weights | 17.4 |
| Socioeconomic Factor Indicators | — |
| Education | 1.46 |
| Housing | 16.3 |
| Linguistic | 0.00 |
| Poverty | 15.8 |
| 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 | 82.89490568 |
| Employed | 53.24008726 |
| Median HI | 87.54010009 |
| Education | — |
| Bachelor's or higher | 82.0993199 |
| High school enrollment | 27.3193892 |
| Preschool enrollment | 56.51225459 |
| Transportation | — |
| Auto Access | 50.17323239 |
| Active commuting | 31.59245477 |
| Social | — |
| 2-parent households | 83.48517901 |

| | |
|---|---|
| Voting | 88.15603747 |
| Neighborhood | — |
| Alcohol availability | 64.40395226 |
| Park access | 47.68381881 |
| Retail density | 23.3927884 |
| Supermarket access | 39.89477736 |
| Tree canopy | 97.48492237 |
| Housing | — |
| Homeownership | 92.55742333 |
| Housing habitability | 74.57975106 |
| Low-inc homeowner severe housing cost burden | 78.99396895 |
| Low-inc renter severe housing cost burden | 29.23136148 |
| Uncrowded housing | 80.21301168 |
| Health Outcomes | — |
| Insured adults | 94.93134865 |
| Arthritis | 0.0 |
| Asthma ER Admissions | 89.3 |
| 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 | 81.3 |
| Cognitively Disabled | 33.5 |
| Physically  Disabled | 39.7 |
| Heart Attack ER Admissions | 93.1 |

| | |
|---|---|
| Mental Health Not Good | 0.0 |
| Chronic Kidney Disease | 0.0 |
| Obesity | 0.0 |
| Pedestrian Injuries | 66.2 |
| 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 | 88.7 |
| Elderly | 5.9 |
| English Speaking | 91.2 |
| Foreign-born | 14.7 |
| Outdoor Workers | 70.4 |
| Climate Change Adaptive Capacity | — |
| Impervious Surface Cover | 88.3 |
| Traffic Density | 61.6 |
| Traffic Access | 0.0 |
| Other Indices | — |
| Hardship | 14.8 |
| Other Decision Support | — |
| 2016 Voting | 94.2 |

## 7.3. Overall Health & Equity Scores

| Metric | Result for Project Census Tract |
|---|---|
| CalEnviroScreen 4.0 Score for Project Location (a) | 7.00 |
| Healthy Places Index Score for Project Location (b) | 86.0 |
| 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 | based off old modeling |
| Construction: Construction Phases | Anticipated construction schedule |
| Construction: Off-Road Equipment | second phase of paving |
| Construction: Dust From Material Movement | based off cut and fill calculations |
| Operations: Vehicle Data | Per trip gen |
| Operations: Hearths | MBARD no wood stoves |
| Operations: Road Dust | Project in developed and urbanized area, no unpaved roads |
| Operations: Off-Road Equipment | Equip |

| | |
|---|---|
| Construction: On-Road Fugitive Dust | All on paved roads |

LIVE OAK ASSOCIATES, INC.

an Ecological Consulting Firm

# VALLEY GARDENS
# BIOLOGICAL EVALUATION REPORT
# SCOTTS VALLEY, SANTA CRUZ COUNTY, CALIFORNIA


Prepared by
LIVE OAK ASSOCIATES, INC.

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April 5, 2022 PN 2036-03

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# 1 INTRODUCTION

## 1.1 PURPOSE AND OBJECTIVES

Live Oak Associates, Inc. (LOA) investigated the biological resources of an approximately 30-acre site ("project site") proposed for residential development ("project") and evaluated potential impacts to those biological resources associated with project implementation. The following technical report summarizes the results of LOA's investigation and recommends measures to reduce the magnitude of impacts to biological resources as appropriate.

- The primary objectives of this report are to:
- Summarize all site-specific information related to existing biological resources;
- Make reasonable inferences about the biological resources that could occur on the site based on habitat suitability and the proximity of the site to a species' known range
- Summarize all local, state, and federal policies and laws regulating biological resources that may be relevant to the project, including:
- Identifying and discussing potential project impacts to biological resources; and
- Identifying avoidance, minimization, and compensatory mitigation measures that would reduce the magnitude of any project-related impacts to biological resources.

## 1.2 PROJECT LOCATION

The project site is approximately 30-acres and located at 263 Mount Herman Road (APNs 021-011-34, 021-221-02, 021-231-04, 021-231-07 and 021-231-08) and 475 Lockewood Lane (APN 021-231-02) in Scotts Valley, Santa Cruz County, California (Figure 1). The project site was formerly the Valley Gardens Golf Course which ceased operations in 2019.

The site is located in the Felton 7.5-minute U.S. Geological Survey (USGS) quadrangle in section 24 of township 10 south, range 2 west of the Mt. Diablo Meridian (Figure 2).

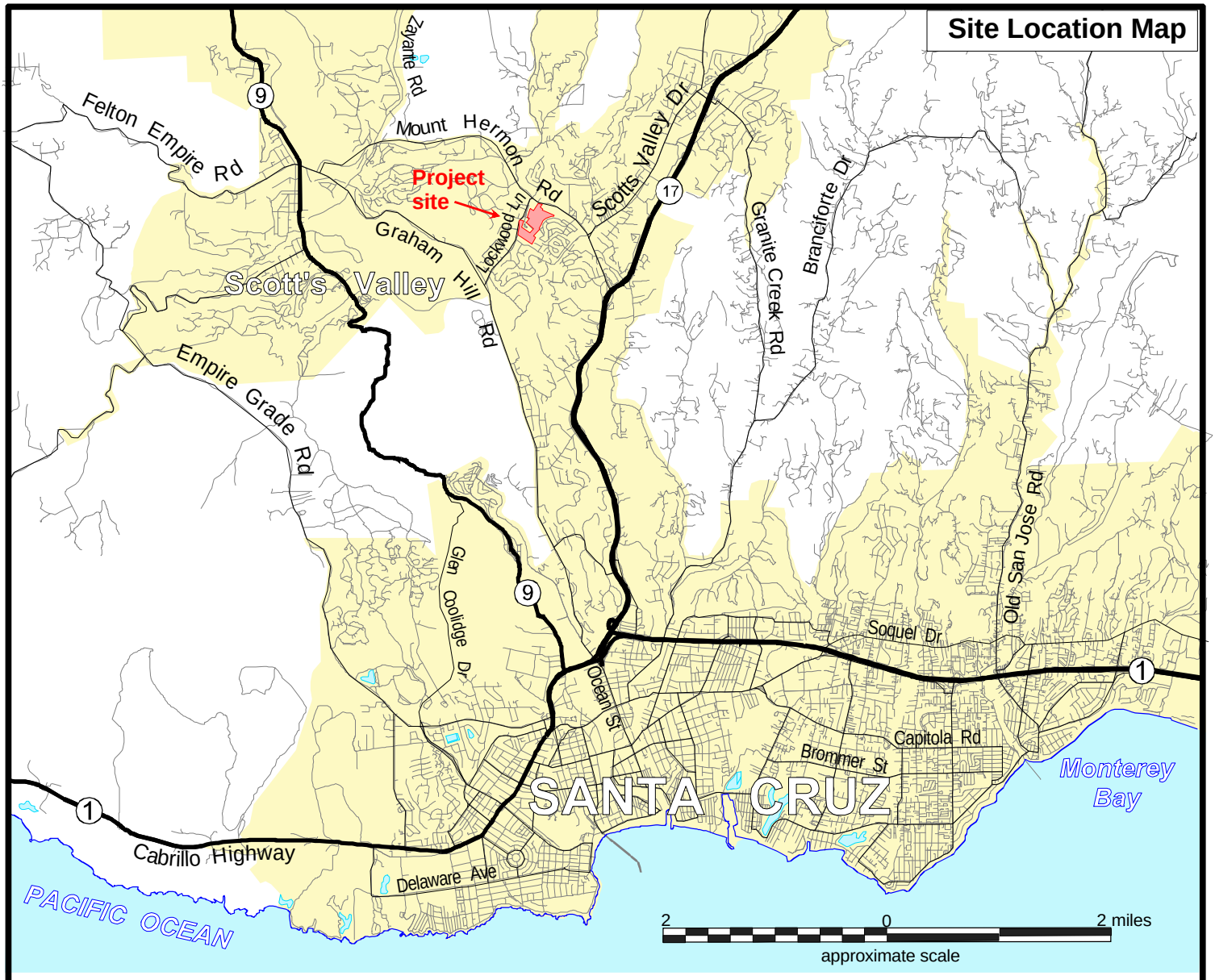
## 1.3 PROJECT DESCRIPTION

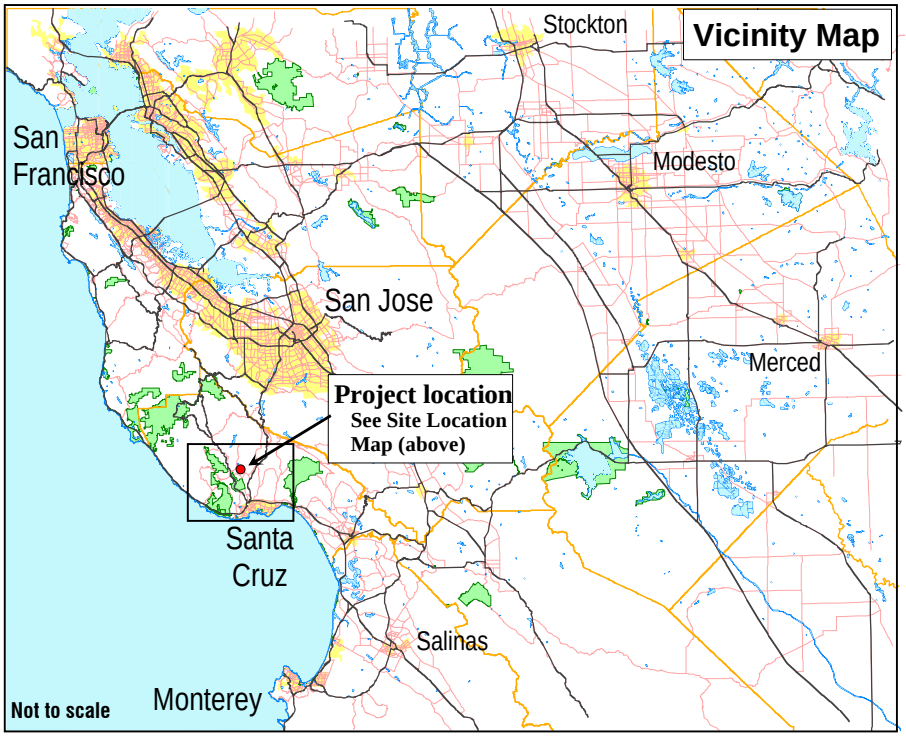
The proposed project will include both commercial and residential development per the project description and site plan provided to LOA by the applicant in March 2022.

Proposed residential development on the site will include approximately 110 residential dwelling units, including 84 single-family units and 26 duplex units. Additionally, 13 accessory dwelling units are proposed to be constructed over detached garages.

The project also will include up to four retail buildings near Mt. Hermon Road and associated outdoor dining areas.

In addition to the residential and commercial development, the project will include significant open space and parks, including a central park feature with a pond adjacent to the commercial area, and 4,000 linear feet of trails.



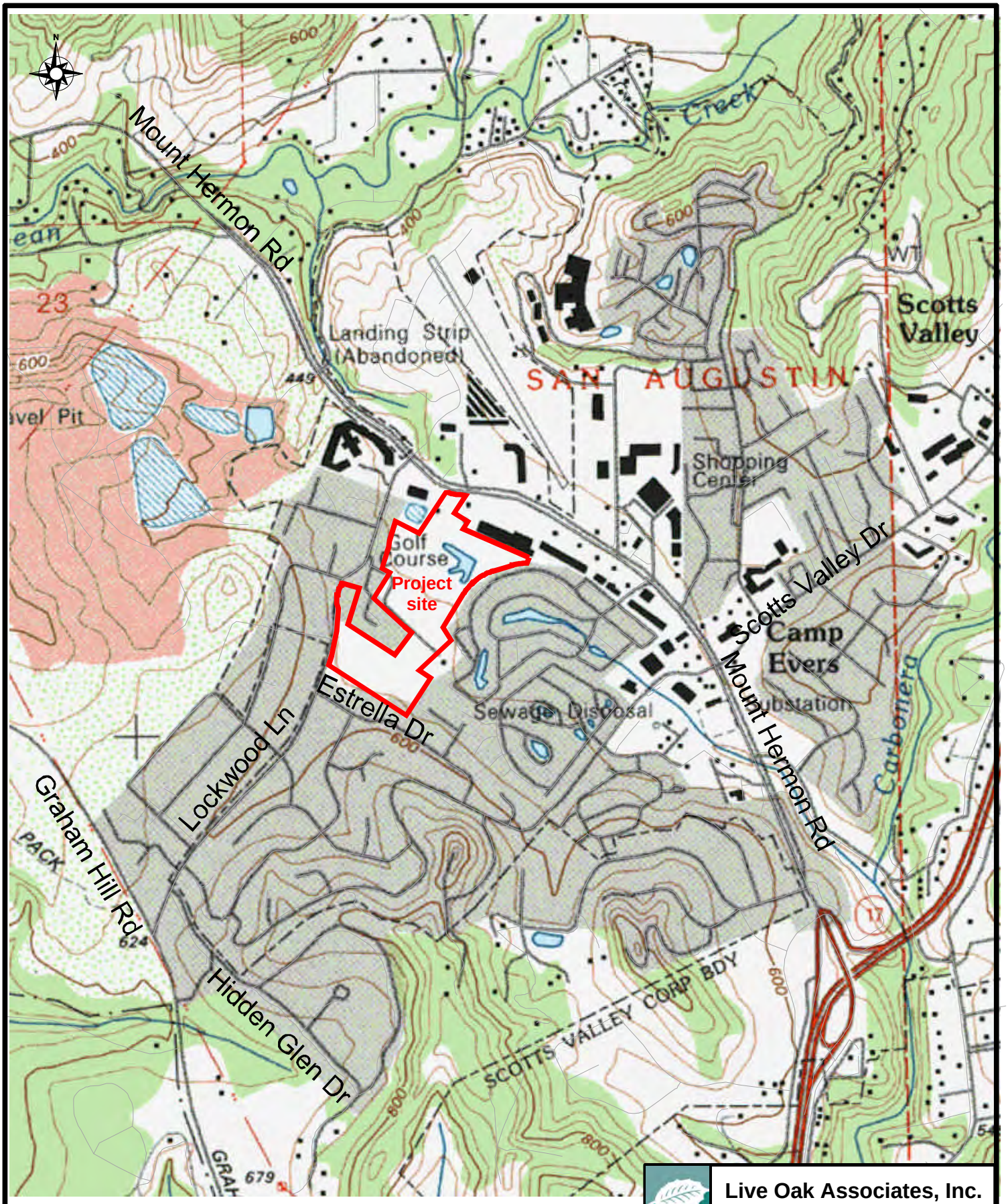




**Live Oak Associates, Inc.**

**Valley Gardens B.E.**
Site / Vicinity Map

| Date | Project # | Figure # |
|---|---|---|
| 11/23/2021 | 2036-03 | 1 |




2,000' 0 1,000' 2,000 feet

approximate scale

**Sources:**
U.S.G.S. 7-1/2' Felton Quadrangle 1995
Universal Transverse Mercator Coordinate System Zone 10, NAD83 / NAVD 1988

**Live Oak Associates, Inc.**

**Valley Gardens B.E.**
U.S.G.S. Quadrangle

| Date | Project # | Figure # |
|---|---|---|
| **11/23/2021** | **2036-03** | **2** |

Other ancillary improvements will include, but not be limited to, a trash enclosure and space for a future Water District water tank.

Primary access to the site will be from Mount Herman Road and from Lockwood Lane via a new local road (Drive A). A separated multi-use pedestrian/bicycle trail is proposed, generally adjacent to Drive A.

### 1.4 STUDY METHODOLOGY

The analysis of potential project impacts, as discussed in Section 4 of this report, is based on the known and potential biotic resources of the site, as discussed in Section 2, as well as the regulatory framework as described in Section 3. Thus, the site's broader environmental setting is described to provide context for the discussion more specifically related to threatened and endangered species, wetlands, and other sensitive habitats. As such, the following were completed for this biological evaluation:

**Background review.** LOA reviewed resource agency data and literature, including, but not limited to, the following:

- The California Natural Diversity Database Rarefind 5 (CNDDB; CDFW 2021);
- The California Native Plant Society's Inventory of Rare and Endangered Vascular Plants of California (CNPS 2021);
- United States Department of Agriculture (USDA) Natural Resource Conservation Service Custom Soil Resource Report for Santa Cruz County, California (NRCS 2021);
- Manuals and references related to plants and animals of Santa Cruz County;
- The U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (USFWS 2021); and
- Previous reports prepared for the site by LOA and others. The latter included an arborist report (Monarch Consulting Arborists 2021), a rare plant survey report (LOA 2018), a formal wetland delineation (LOA 2018), a prior Biological Assessment prepared for Ponderosa Homes (WRA 2006), and two reports of findings from presence-absence surveys for the Mount Hermon June beetle (Entomological Consulting Services 2004 and 2016).

**Field Surveys Conducted on the Site.** On December 6, 2021, LOA plant and wetland ecologist Pamela Peterson and LOA wildlife ecologist Cristal Romero conducted a survey of the site for the purposes of confirming the existing conditions of the site for preparation of this Biological Evaluation.

Other LOA surveys conducted on the site prior to December 6, 2021, include a formal wetland delineation survey by Ms. Peterson on December 5, 2017, and January 9, 2018; and focused special status plant surveys conducted on the site by Ms. Peterson on July 19, 2016, and May 1, 2018.

Surveys conducted by others on the site that LOA is aware of include surveys by Wetland Resource Associates (WRA) for the preparation of their biological assessment on December 22,

2006, and January 4, 2006; presence/absence surveys for the Mount Hermon June beetle conducted by Dr. Dick Arnold of Entomological Consulting Services on June 1, 16 and 29, 2004; and June 21 and 29, and July 13, 2016; and a tree survey conducted on the site by Richard Gessner from Monarch Consulting Arborists (MCA) in 2018 and 2020 (MCA 2021).

Reports previously prepared for the project site can be found in Appendix C.

# 2 EXISTING CONDITIONS

## 2.1 REGIONAL SETTING

The site is located within the developed environs of the City of Scotts Valley. It is bound to the northeast by commercial development and a mobile home park, and on all other sides by dense single-family residential development. The closest natural lands occur between 0.3 and 0.5 miles south and west of the site. Highway 17 is located approximately one mile east of the site.

The City of Scotts Valley has a Mediterranean climate with warm to hot dry summers and cool winters. Annual precipitation in the general vicinity of the site is highly variable from year to year. Average annual rainfall is approximately 29 inches, most of which falls between November and March (WRCC 2021). Stormwater runoff readily infiltrates the site's soils; when field capacity has been reached, gravitational water drains into the site as shallow groundwater or as surface sheet flow.

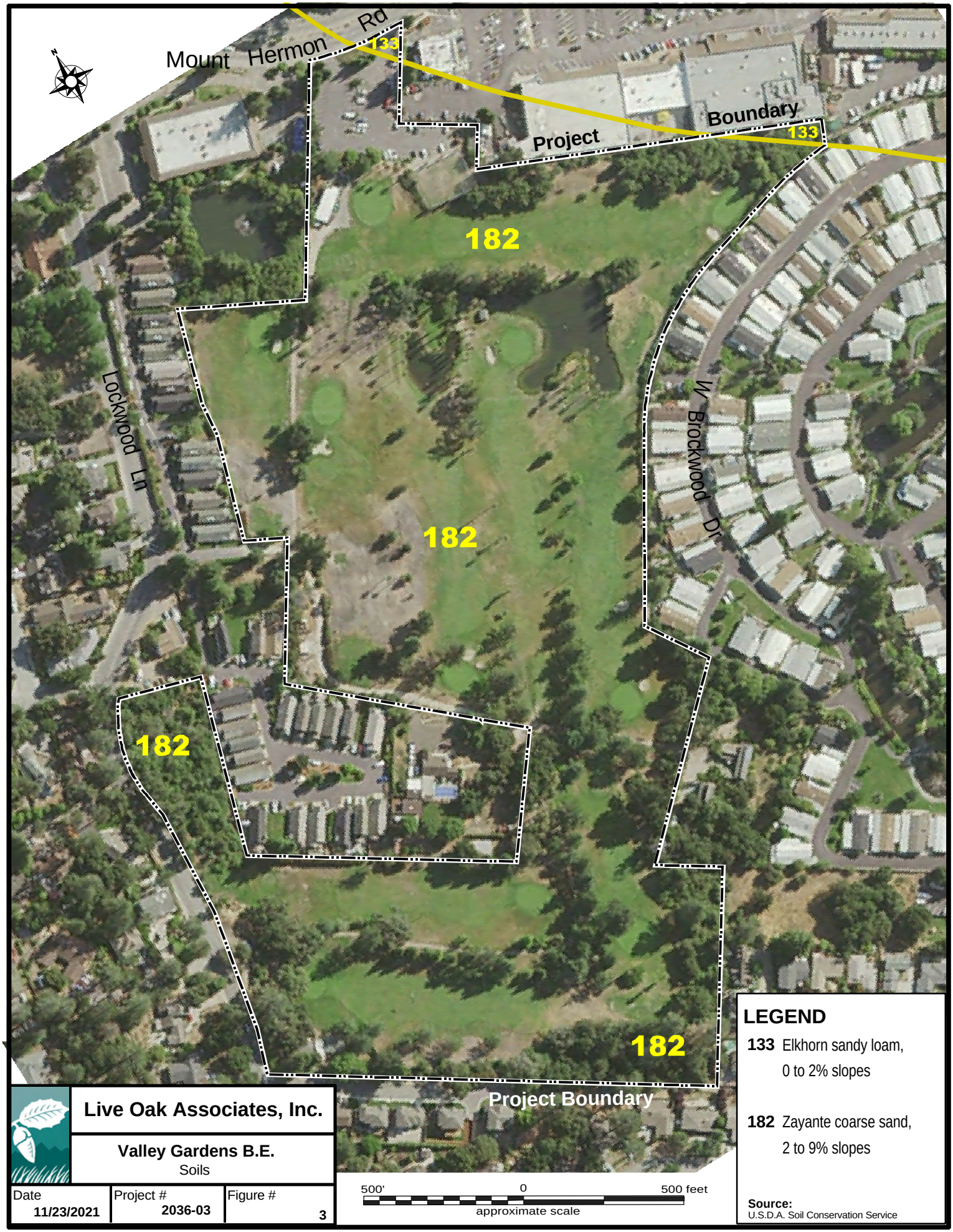
The site's topography is slightly sloped, ranging in elevations from 513 feet (156 meters) in the north near Mt. Hermon Road to almost 700 feet (213 meters) National Geodetic Vertical Datum, near the site's southern boundary.

## 2.2 SOILS

Zayante coarse sand, 5 to 30 percent slopes underlays most of the site, although a small amount of Elkhorn sandy loam, 2 to 9 percent slopes, occurs in the very northeastern corner of the site (Figure 3; NRCS 2021). The Zayante and Elkhorn soils are considered excessively well-drained and well-drained, respectively. Neither of these soils is considered a hydric soil. Hydric soils are soils that are saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions in the upper part; and under sufficiently wet conditions, hydric soils support the growth and regeneration of hydrophytic vegetation.

## 2.3 BIOTIC HABITATS AND LAND USES

Five biotic habitats or land uses are identified on the site and these include: Golf Course Greens, Coast Live Oak Woodland, Developed, Golf Course Pond (dry except after precipitation events since it is a low spot on the property), and Riparian. These habitats are depicted in Figure 4 and described in greater detail below. A list of the vascular plant species observed on the project site is provided in Appendix A. Selected photographs of the project site are presented in Appendix B.




**Live Oak Associates, Inc.**

**Valley Gardens B.E.**
Soils

| Date | Project # | Figure # |
|---|---|---|
| 11/23/2021 | 2036-03 | 3 |




500' 0 250' 500 feet

approximate scale

**Sources:**
Topographic contours and planimetric features courtesy of RJA Engineering and Surveying
U.S.D.A. National Agriculture Imagery Program (NAIP) Aerial Photo Field Office 8/24/2020

- Project Boundary
- Golf Course Pond
- Developed
- Riparian
- Golf Course
- Coast Live Oak Woodland

**Live Oak Associates, Inc.**

**Valley Gardens B.E.**
Biotic Habitats / Land Cover

| Date | Project # | Figure # |
|---|---|---|
| 12/15/2021 | 2036-03 | 4 |

### 2.3.1 Golf Course Greens

The vast majority of the site consists of the former golf course greens, and comprised of turfgrasses, as well as ornamental trees and shrubs such as Mexican fan palm (*Washingtonia robusta*). Prior to the golf course closing in 2019, these greens were highly manicured and managed areas. Some ponderosa pines (*Pinus ponderosa*), which are presumed to be original to the site prior to the golf course development are also present scattered within the southern portion of the golf course. Wildlife species observed foraging on the golf course greens and trees included house finches (*Haemorhous mexicanus*), American crows (*Corvus brachyrhynchos*), mourning dove (*Z. macroura*), black phoebe (*Sayornis nigricans*), and European starlings (*Sturnus vulgaris*).

### 2.3.2 Coast Live Oak Woodland

Coast live oak (*Quercus agrifolia*) woodland occurs in the northeast corner of the site, as well as along the southeast, south and southwest boundaries of the site. In addition to coast live oaks, other woody tree, shrub and vine species occurring within these habitats include ponderosa pine, Monterey pine (*Pinus radiata*), Pacific madrone (*Arbutus menziesii*), California blackberry (*Rubus ursinus*), California coffeeberry (*Frangula californica*), poison oak (*Toxicodendron diversilobum*), and French broom (*Genista monspessulana*). The understory layer was mostly covered with sparse grasses and forbs or leaf litter.

Coast live oak woodlands can provide important habitat for a variety of wildlife species. Coast live oaks provide nesting sites and cover for many birds, including raptors, and mammals. Cavity-bearing trees supply food, denning, nesting, and roosting sources. Root systems and woody debris contributes to the structural complexity of the woodland floor and provide foraging areas for small mammals as well as microclimates suitable for amphibians and reptiles. Acorns are a valuable food source for many animal species, including the western gray squirrel (*Sciurus griseus*), California quail (*Callipepla californica*), as well as several species that were observed in the woodland remnants during the December 2021 surveys, such as the California scrub jay (*Aphelocoma californica*), and black-tailed deer (*Odocoileus hemionus columbianus*) (tracks). Because the coast live oak woodlands of the site are relatively small patches of remnant habitat separated from other natural areas by commercial and residential development, their value for wildlife is considered marginal, although this habitat would provide some nesting and foraging habitat for comment small mammals and bird species adapted to human disturbance. Aside from the species already mentioned above, other wildlife species observed foraging within the remnant woodlands of the site included acorn woodpeckers (*Melanerpes formicivorus*), bushtits (*Psaltriparus minimus*), Anna's hummingbird (*Calypte anna*), lesser goldfinch (*Spinus psaltria*), northern flicker (*Colaptes auratus*), golden-crowned sparrow (*Zonotrichia atricapilla*), and chestnut-backed chickadee (*Poecile rufescens*).

In addition to the common wildlife species observed on the stie during LOA's December 2021 site visit, at least five San Francisco dusky-footed woodrat (*Neotoma fuscipes annectens*) nests were observed within woodland located in the northeastern portion of the site behind the commercial center. This species is considered a California species of special concern.

### 2.3.3 Riparian

A small patch of riparian habitat is associated with the western edge of the former golf course pond. Trees and shrubs associated with this patch of habitat include arroyo willow (*Salix lasiolepis*) and Pacific blackberry.

### 2.3.4 Golf Course Pond

A manmade pond feature occurs on the site. While the golf course was still operational, the pond was used to store rainwater and well water from an adjacent well for purposes of irrigating the gold course greens. Since the closure of the golf course, well water is no longer pumped into this feature, and it was mainly dry despite recent winter rainfall in the region. Only a small portion of the westernmost area of the pond was observed to have water in it during the December 2021 survey and this was likely a result of the recent rainfall as the pond is known to go dry in the absence of pumping and recent rainfall events. Vegetation observed within the dried pond consisted primarily of upland, ruderal species.

### 2.3.5 Developed

Developed areas of the site include the asphalt parking lot, clubhouse and driving range located in the northwest portion of the site. A residence also occurs in the southwest portion of the site; however, the residence occurs almost entirely within the canopy of remnant woodland habitat described previously.

## 2.4 SPECIAL STATUS PLANTS AND ANIMALS

Many plant and animal species in California have limited distributions and are vulnerable to extirpation as these species' habitats are converted to urban, agricultural, industrial, and residential land uses. Plant and wildlife species have also experienced a decline in population numbers due to habitat loss and degradation, climate change, the introduction of non-native competitors, hunting, and other anthropogenic factors.

Federal and state endangered species legislation provides a legal mechanism for conserving and protecting plant and animal species of limited distribution and/or low or declining populations. As described more fully in Section 3.2, state and federal laws provide 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. Many native plants and animals have been formally designated as threatened or endangered under state and federal endangered species legislation. Other native plants and animals have been designated as candidates for such listing under California Endangered Species Act (CESA) and the Federal Endangered Species Act (FESA). Still other plants and animals have been designated as "species of special concern" by the CDFW. The California Native Plant Society (CNPS) in collaboration with the CDFW have developed the California Rare Plant Rank (CRPR) assigned to rare, threatened, or endangered plants which fall under Section 15380 of CEQA (CDFW 2018) . Collectively, these native plants and animals are referred to as "special status species."

The California Natural Diversity Database (CNDDB) (CDFW 2021) and the California Native Plant Society's Inventory of Rare and Endangered Vascular Plants of California (CNPS 2021) were queried for special status species occurrences in the Felton USGS 7.5-minute quadrangle in which

the project site occurs and for the seven surrounding quadrangles (Big Basin, Castle Rock Ridge, Los Gatos, Davenport, Laurel, Santa Cruz, and Soquel). These species and their potential to occur on the project site are summarized in Tables 1 and 2. Other factors considered in this evaluation include the capacity of the onsite habitats to support the species, geographical distance of the project site from known populations or occurrences of the species, and ability of the species to travel from areas of known occurrences to the project site. Figures 5a and 5b depict the general locations of special status plant and wildlife species, respectively, as reported in the California Natural Diversity Data Base (CNDDB) (CDFW 2021).

Because serpentine and alkaline soils are absent from the site, those species that are uniquely adapted to these soil conditions are considered to be absent and have been removed from consideration in Table 1. These include the serpentine leptosiphon (*Leptosiphon ambiguus*), Santa Clara valley dudleya (*Dudleya abramsii ssp. setchellii*), and phlox-leaf serpentine bedstraw (*Galium andrewsii ssp. gatense*). Other special status plant species occur in specific habitats that are not present on the site (e.g., coastal dunes, swamps, maritime chaparrals) are also considered absent from the project site and not discussed further. These include Blasdale's bent grass (*Agrostis blasdalei*), coast rockcress (*Arabis blepharophylla*), marsh sandwort (*Arenaria paludicola*), Mexican mosquito fern (*Azolla microphylla*), short-leaved evax (*Hesperevax sparsiflora var. brevifolia*), and coast iris (*Iris longipetala*). Special status moss and plant species occurring in broadleaved forests and coniferous forests are also considered absent due to the lack of these habitats on the site. These moss species include slender silver moss (*Anomobrym julaceum*), tear drop moss (*Dacryophyllum falcifolium*), minute pocket moss (*Fissidens pauperculus*), and plant species include the Ohlone manzanita (*Arctostaphylos ohloneana*), Santa Cruz monkeyflower (*Mimulus rattanii spp. decurtatus*) and white-flowered rein orchid (*Piperia candida*). Special status plant species occurring in multiple habitats found on the site, including those found in valley and foothill grassland and cismontane woodland, are retained in Tables 1A and 1B.

Wildlife that can be treated as absent from the site are those species requiring specific habitats that do not exist on the site. Beyond the special status wildlife species presented in Table 2, below, there are other special status avian and aquatic species that we would expect to be absent from the project site, due to an absence of suitable habitat, and that have therefore been eliminated from consideration in Table 2. These latter species include three avian species, i.e. the western snowy plover (*Charadrius alexandrines nivosus*), saltmarsh common yellowthroat (*Geothlypis trichas sinuosa*), and California black rail (*Laterallus jamaicensis coturniculus*), all which occur in marshes and estuaries, with alkaline water; and three fish species, i.e. the eulachon (*Thaleichthys pacificus*), coho salmon (*Oncorhynchus kisutch*), and steelhead (*Oncorhynchus mykiss irideus*), due to the absence of adequate waterways these fish species require.

While most special status animals are considered either absent from or unlikely to occur on the site, two special status animals have been confirmed to be present on the site and these include the federally endangered Mount Hermon June beetle (*Polyphylla barbata*) and one state species of special concern, the San Francisco dusky-footed woodrat (*Neotoma fuscipes annectens*). Due

the presence of the MHJB and its status as federally endangered, this species warrants further discussion.

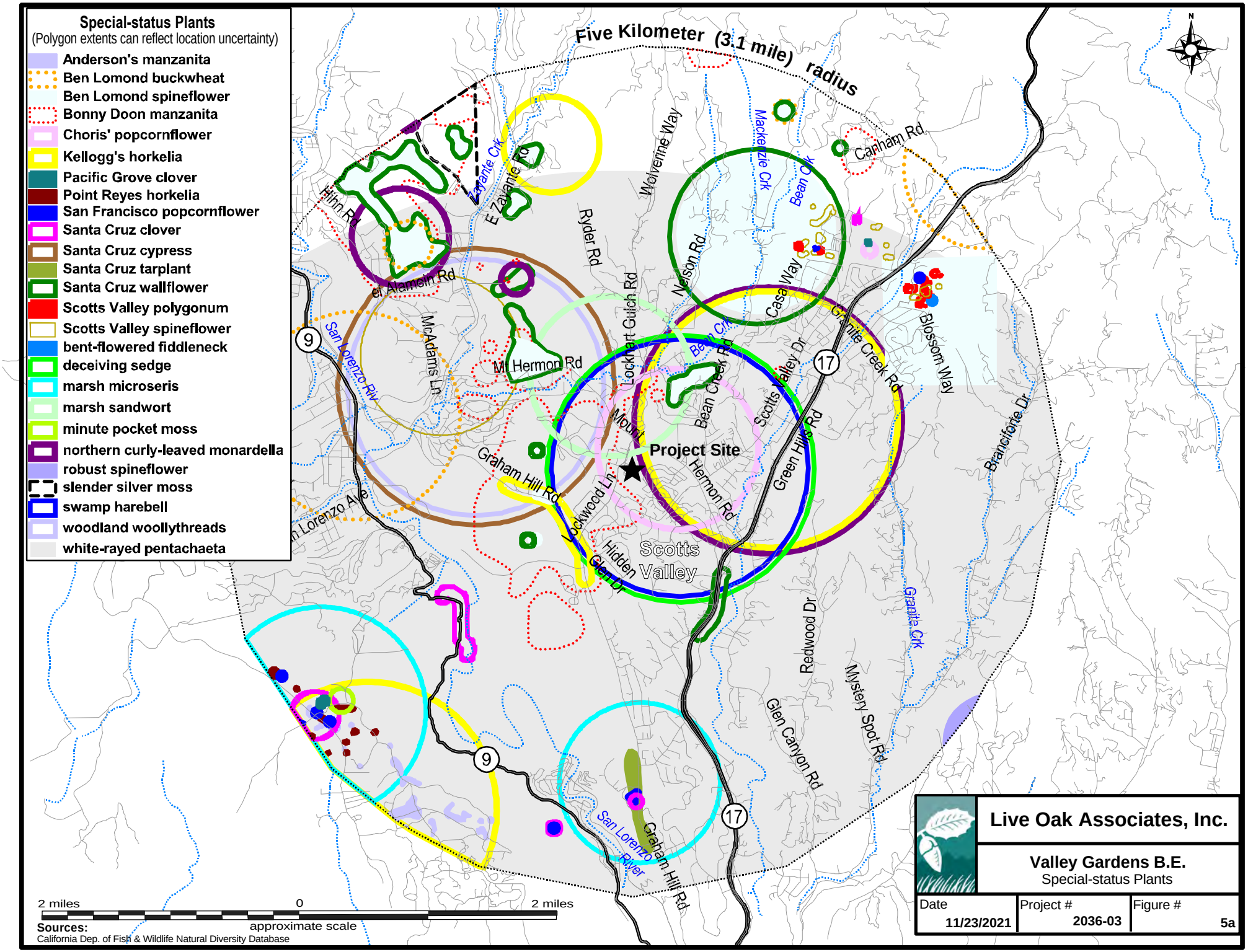
Mount Hermon June Beetle (*Polyphylla barbata*). Federal listing status: Endangered; State listing status: None.

The Mount Hermon June beetle (MHJB) (*Polyphylla barbata*) was listed as federally endangered in 1997 as the species was in danger of extinction primarily due to habitat loss from sand mining and residential development (USFWS 1998).

**Habitat Description**. This species is restricted to a unique vegetation community occurring on inland marine sand deposits, i.e., Zayante sandhills habitat, in Santa Cruz County in the Ben Lomond-Mount Hermon-Scotts Valley area, but most recently, has also been found present in Bonny Doon and other areas outside of the formerly known range (ECS 2016). Due to the sandy, well-drained soils and sparse vegetation, the Zayante sandhills provides a drier microclimate than surrounding areas of the Santa Cruz mountains. Generally, this unique vegetation community consists of a mosaic of ponderosa pine woodlands and chaparral, interspersed with open, sandy grassland areas which has been termed sandhills parkland.

**Life History**. During warm evenings beginning in mid-May and extending to mid-August, adult MHJB emerge from their underground burrows to reproduce, with the daily flight time of male June beetles occurring during the evening hours (USFWS 1998). Once the short daily flight is over, the adults return to their burrows to resume the next day. Because of the short flight period of adults, and their small mouthparts, it is believed that adult MHJB do not feed. Adult females are believed to die shortly after laying eggs at the bottom of their burrows. Not much is known about the larva life cycle of MHJB, but based on that of other species in the Genus *Polyphylla*, once hatched, MHJB larva are believed to take between 2 and 3 years to mature into adult beetles. The larva live underground where is believed that they feed on the roots of plants such as grasses, pines, and potentially other plant species.

**Occurrence on the Site**. Protocol-level presence/absence surveys were conducted on the site by Dr. Richard Arnold of ECS in 2004 and 2016 (Appendix C) during the adult flight season where he found low numbers of this species present on the site. The most recent 2016 survey found that the species occurred within two areas of the site: a northern polygon measuring 3.2 acres, and a larger, southern polygon measuring 8.52 acres.


Special-status Plants
(Polygon extents can reflect location uncertainty)
Anderson's manzanita
Ben Lomond buckwheat
Ben Lomond spineflower
Bonny Doon manzanita
Choris' popcornflower
Kellogg's horkelia
Pacific Grove clover
Point Reyes horkelia
San Francisco popcornflower
Santa Cruz clover
Santa Cruz cypress
Santa Cruz tarplant
Santa Cruz wallflower
Scotts Valley polygonum
Scotts Valley spineflower
bent-flowered fiddleneck
deceiving sedge
marsh microseris
marsh sandwort
minute pocket moss
northern curly-leaved monardella
robust spineflower
slender silver moss
swamp harebell
woodland woollythreads
white-rayed pentachaeta
Five Kilometer (3.1 mile) radius
Project Site
Scotts Valley
Graham Hill Rd
Mt Hermon Rd
Lockwood Ln
Hidden Glen Dr
Green Hills Rd
Scotts Valley Dr
Bean Creek Rd
Lockhart Gulch Rd
Ryder Rd
Wolverine Way
Mackenzie Crk
Bean Crk
Carlham Rd
Nelson Rd
Casa Way
Granite Creek Rd
Blossom Way
Brancifort Dr
Granite Crk
Redwood Dr
Mystery Spot Rd
Glen Canyon Rd
Graham Hill Rd
San Lorenzo River
San Lorenzo Riv
McAdams Ln
El Alamein Rd
Zayante Crk
E Zayante Rd
Zilhn Rd
9
17
N
2 miles
0
2 miles
approximate scale
Sources:
California Dep. of Fish & Wildlife Natural Diversity Database
Live Oak Associates, Inc.
Valley Gardens B.E.
Special-status Plants
Date
11/23/2021
Project #
2036-03
Figure #
5a

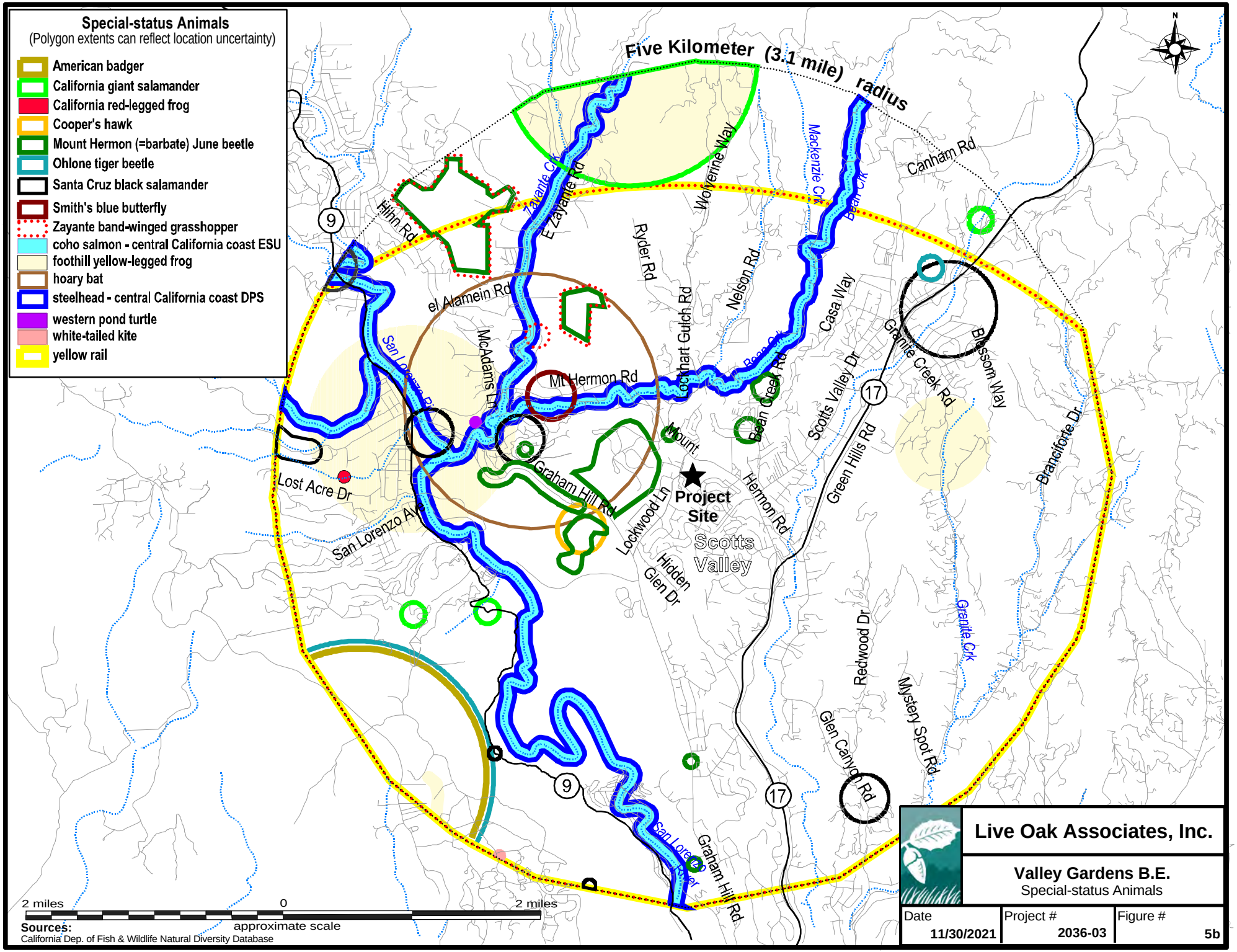

Special-status Animals
(Polygon extents can reflect location uncertainty)
American badger
California giant salamander
California red-legged frog
Cooper's hawk
Mount Hermon (=barbate) June beetle
Ohlone tiger beetle
Santa Cruz black salamander
Smith's blue butterfly
Zayante band-winged grasshopper
coho salmon - central California coast ESU
foothill yellow-legged frog
hoary bat
steelhead - central California coast DPS
western pond turtle
white-tailed kite
yellow rail
Five Kilometer (3.1 mile) radius
N
Project Site
Scotts Valley
Mt Hermon Rd
Graham Hill Rd
Lockwood Ln
Hermon Rd
Green Hills Rd
Scotts Valley Dr
Granite Creek Rd
Blossom Way
Brancifort Dr
Casa Way
Nelson Rd
Ryder Rd
Lockhart Gulch Rd
Bean Creek Rd
Bean Crk
Mackenzie Crk
Wolverine Way
Zayante Crk
E Zayante Rd
Canham Rd
Flinn Rd
el Alamein Rd
McAdams Ln
San Lorenzo Pl
Lost Acre Dr
San Lorenzo Ave
Hidden Glen Dr
Redwood Dr
Granite Crk
Mystery Spot Rd
Glen Canyon Rd
San Lorenzo River
9
17
2 miles
0
2 miles
approximate scale
Sources:
California Dep. of Fish & Wildlife Natural Diversity Database
Live Oak Associates, Inc.
Valley Gardens B.E.
Special-status Animals
Date
11/30/2021
Project #
2036-03
Figure #
5b

**TABLE 1A. SPECIAL STATUS PLANT SPECIES THAT COULD OCCUR IN THE PROJECT VICINITY.**
**PLANTS (ADAPTED FROM CDFW 2021 AND CNPS 2021)**
***Species Listed as Threatened or Endangered under the State and/or Federal Endangered Species Acts***

| Common and scientific names | Status | General habitat description and blooming period | *Occurrence in the study area |
|---|---|---|---|
| Ben Lomond spineflower<br>*Chorizanthe pungens var. hartwegiana* | FE, CRPR 1B.1 | Habitat: lower montane coniferous forest, openings in sandhill chaparral, maritime ponderosa pine sandhills. Although this species is typically found in sandy Zayante soils, this species is not restricted to sandy soils and is intolerant of shade resulting from competing species (Rutherford 2008).<br>Elevation: 90-610 meters<br>Life form: annual herb<br>Blooms: April-July | **Absent**. Very marginal habitat is present on the site within woodland habitat, however, focused surveys for special status plants conducted in 2018 failed to detect this species on the site. However, this species was detected on an adjacent property on Collado Drive by Olberding Environmental in 2000 (Olberding 2000). |
| Monterey spineflower<br>*Chorizanthe pungens var. pungens* | FT, CRPR 1B.1 | Habitat: coastal dunes, sandy openings in coastal chaparral, cismontane woodland, coastal scrub, valley and foothill grassland.<br>Elevation: 3-450 meters<br>Life form: annual herb<br>Blooms: April–July | **Absent**. Marginal habitat is present on the site within woodland habitat, however, focused surveys for special status plants conducted in 2018 failed to detect this species on the site. |
| Scotts Valley spineflower<br>*Chorizanthe robusta var. robusta* | FE, CRPR 1B | Habitat: maritime chaparral, openings of cismontane woodlands, coastal dunes, and coastal scrub sometimes on sandy or gravelly soils.<br>Elevation: 3-300 meters<br>Life form: annual herb<br>Blooms: April–September | **Absent**. Marginal habitat is present on the site within woodland habitat, however, focused surveys for special status plants conducted in 2018 failed to detect this species on the site. |
| Robust spineflower<br>*Chorizanthe robusta var. robusta* | FE, CRPR 1B | Habitat: maritime chaparral, openings of cismontane woodlands, coastal dunes, and coastal scrub sometimes on sandy or gravelly soils.<br>Elevation: 3-300 meters<br>Life form: annual herb<br>Blooms: April–September | **Absent.** Marginal habitat is present on the site within woodland habitat, however, focused surveys for special status plants conducted in 2018 failed to detect this species on the site. |
| Santa Cruz wallflower<br>*Erysimum teretifolium* | FE, CE, CRPR 1B.1 | Habitat: inland marine sands within chaparral and lower montane coniferous forest.<br>Elevation: 120-610 meters<br>Life form: perennial herb<br>Blooms: March - July | **Absent**. Marginal habitat is present on the site within woodland habitat, however, focused surveys for special status plants conducted in 2018 failed to detect this species on the site. |
| Santa Cruz tarplant<br>*Holocarpha macradenia* | FT, CE, CRPR 1B | Habitat: coastal prairie, coastal scrub, and valley and foothill grasslands, often on clay or sandy soils.<br>Elevation: 10-220 meters<br>Life form: annual herb<br>Blooms: June–October | **Absent**. Marginal habitat is present on the site within woodland habitat, however, focused surveys for special status plants conducted in 2018 failed to detect this species on the site. |

**TABLE 1A. SPECIAL STATUS PLANT SPECIES THAT COULD OCCUR IN THE PROJECT VICINITY.**
**PLANTS (ADAPTED FROM CDFW 2021 AND CNPS 2021)**
***Species Listed as Threatened or Endangered under the State and/or Federal Endangered Species Acts***

| | | | |
|---|---|---|---|
| White-rayed Pentachaeta<br>*Pentachaeta bellidiflora* | CE, FE, CRPR 1B | Habitat: sparsely vegetated sites in coastal prairie or serpentine bunchgrass grasslands, cismontane woodland.<br>Elevation: 35-620 meters<br>Life form: annual herb<br>Blooms: March–May | **Absent**. No suitable habitat is present on the site for this species. |
| San Francisco popcorn-flower<br>*Plagiobothrys diffusus* | CE, CRPR 1B | Habitat: sparsely vegetated, mesic sites in coastal prairie, valley and foothill grasslands.<br>Elevation: 30-150 meters<br>Life form: annual herb<br>Blooms: March–June | **Absent**. No suitable habitat is present on the site for this species. |
| Scotts Valley Polygonum<br>*Polygonum hickmanii* | FE, CE, CRPR 1B.1 | Habitat: Mudstone and sandstone soils within valley and foothill grasslands; occur on gently sloping to nearly level, fine-textured shallow soils (Rutherford 1998).<br>Elevation: 210-250 meters<br>Life form: annual herb<br>Blooms: May–October | **Absent**. No suitable habitat is present on the site for this species. |

**TABLE 1B. SPECIAL STATUS PLANT SPECIES THAT COULD OCCUR IN THE PROJECT VICINITY.**
**PLANTS (ADAPTED FROM CDFW 2021 AND CNPS 2021)**
***Other special status plants with California Rare Plant Ranks***

| Common and scientific names | Status | General habitat description and blooming period | *Occurrence in the study area |
|---|---|---|---|
| Anderson's manzanita<br>*Arctostaphylos andersonii* | CRPR 1B.2 | Habitat: openings and edges of broad-leaved upland forest, chaparral and North Coast coniferous forests.<br>Elevation: 60-700 meters<br>Life form: evergreen shrub<br>Blooms: November–April | **Absent**. No manzanita species were observed on the site and this woody perennial shrub would have been identifiable if present even outside of its blooming season. |
| Shreiber's manzanita<br>*Arctostaphylos glutinosa* | CRPR 1B.2 | Habitat: chaparral, closed cone coniferous forest.<br>Elevation: 170-685 meters<br>Life form: evergreen shrub<br>Blooms: November–April | **Absent**. No manzanita species were observed on the site and this woody perennial shrub would have been identifiable if present even outside of its blooming season. |
| Kings Mountain manzanita<br>*Arctostaphylos regismontana* | CRPR 1B.2 | Habitat: broadleaved upland forest, chaparral, and north coast coniferous forest typically on granitic and sandstone soils.<br>Elevation: 305-730 meters<br>Life form: evergreen shrub<br>Blooms: December–April | **Absent**. No manzanita species were observed on the site and this woody perennial shrub would have been identifiable if present even outside of its blooming season. |
| Bonny Doon manzanita<br>*Arctostaphylos silvicola* | CRPR 1B.2 | Habitat: Inland marine sands within chaparral, closed-cone coniferous forest, and lower montane coniferous forest.<br>Elevation: 120-600 meters<br>Life form: evergreen shrub<br>Blooms: February–March | **Absent**. No manzanita species were observed on the site and this woody perennial shrub would have been identifiable if present even outside of its blooming season. |

**TABLE 1B. SPECIAL STATUS PLANT SPECIES THAT COULD OCCUR IN THE PROJECT VICINITY.**
**PLANTS (ADAPTED FROM CDFW 2021 AND CNPS 2021)**
***Other special status plants with California Rare Plant Ranks***

| Common and scientific names | Status | General habitat description and blooming period | *Occurrence in the study area |
|---|---|---|---|
| Santa Cruz Mountains pussypaws<br>*Calyptridium parryi var. hesseae* | CRPR 1B | Habitat: Chaparral and cismontane woodland with sandy or gravelly openings.<br>Elevation: 305-1530 meters<br>Life form: annual herb<br>Blooms: May–August | **Absent**. Marginal habitat is present on the site within woodland habitat, however, focused surveys for special status plants conducted in 2018 failed to identify this species on the site. The most recent documented occurrence of this species is from 1954 in the Loma Prieta area. |
| Swamp harebell<br>*Campanula californica* | CRPR 1B | Habitat: Bogs and marshes in a variety of habitats.<br>Elevation: 1-405 meters<br>Life form: annual herb<br>Blooms: June–October | **Absent**. No suitable habitat is present on the site for this species. |
| Bristly sedge<br>*Carex comosa* | CRPR 2 | Habitat: Marshes and swamps, lake margins, valley and foothill grasslands, bogs in redwood forests.<br>Elevation: 0-625 meters<br>Life form: perennial rhizomatous herb<br>Blooms: May–September | **Absent**. No suitable habitat is present on the site for this species. |
| Deceiving sedge<br>*Carex saliniformis* | CRPR 1B | Habitat: Mesic sites in a variety of habitats.<br>Elevation: 3-230 meters<br>Life form: perennial rhizomatous herb<br>Blooms: May–July | **Absent**. No suitable habitat is present on the site for this species. |
| Santa Clara red ribbons<br>*Clarkia concinna ssp. automixa* | CRPR 4 | Habitat: Chaparral and cismontane woodland on slopes and near drainages.<br>Elevation: 90-1500 meters<br>Life form: annual herb<br>Blooms: April–July | **Absent**. No suitable habitat is present on the site for this species. |
| Lewis Clarkia<br>*Clarkia lewisii* | CRPR 4 | Habitat: Chaparral and cismontane woodland on slopes and near drainages.<br>Elevation: 30-1195 meters<br>Life form: annual herb<br>Blooms: May–June | **Absent**. No suitable habitat is present on the site for this species. |
| San Francisco collinsia<br>*Collinsia multicolor* | CRPR 1B | Habitat: Closed-cone coniferous forest and coastal scrub occasionally on serpentinite.<br>Elevation: 30-250 meters<br>Life form: annual herb<br>Blooms: March–May | **Absent**. No suitable habitat is present on the site for this species. |
| Ben Lomond buckwheat<br>*Eriogonum nudum var. decurrens* | CRPR 1B | Habitat: openings in sandhill chaparral or understory of Pacific ponderosa pine forests.<br>Elevation: 50-800 meters<br>Life form: annual herb<br>Blooms: June–October | **Absent**. Marginal habitat is present on the site within woodland habitat, however, focused surveys for special status plants conducted in 2018 failed to detect this species on the site. |

**TABLE 1B. SPECIAL STATUS PLANT SPECIES THAT COULD OCCUR IN THE PROJECT VICINITY.**
**PLANTS (ADAPTED FROM CDFW 2021 AND CNPS 2021)**
***Other special status plants with California Rare Plant Ranks***

| Common and scientific names | Status | General habitat description and blooming period | *Occurrence in the study area |
|---|---|---|---|
| Fragrant fritillary<br>*Fritillaria liliacea* | CRPR 1B | Habitat: cismontane woodland, coastal prairie, coastal scrub, and valley and foothill grasslands. Approximately half of this species' occurrences are on serpentine soils (Calflora 2021).<br>Elevation: 3-410 meters<br>Life form: annual herb<br>Blooms: February–April | **Absent**. Marginal habitat is present on the site within woodland habitat, however, focused surveys for special status plants conducted in 2018 failed to detect this species on the site. |
| Loma Prieta hoita<br>*Hoita strobilina* | CRPR 1B | Habitat: chaparral, cismontane woodland, and riparian woodland. Usually occurs on serpent nitic or mesic soils.<br>Elevation: 30-860 meters<br>Life form: annual herb<br>Blooms: May–October | **Absent**. Marginal habitat is present on the site within woodland habitat, however, focused surveys for special status plants conducted in 2018 failed to detect this species on the site. |
| Kellogg's horkelia<br>*Horkelia cuneata var. sericea* | CRPR 1B | Habitat: openings in closed-cone coniferous forest, coastal scrub, coastal dunes, and maritime chaparral.<br>Elevation: 10-200 meters<br>Life form: annual herb<br>Blooms: April–September | **Absent**. No suitable habitat is present on the site for this species. The most recent and nearest occurrence of this species is over 10 km east of the site, at the Bonny Doon Ecological preserve recorded on April 2021. Other closer but dated records are from 1935 located between Scotts Valley and Felton. |
| Indian Valley bush-mallow<br>*Malacothamnus aboriginum* | CRPR 1B | Habitat: chaparral and cismontane woodland on granitic outcrops and sandy, bare soil. Often occurs in disturbed soils and burned areas.<br>Elevation: 150-1700 meters<br>Life form: perennial shrub<br>Blooms: April–October | **Absent**. Marginal habitat is present on the site within woodland habitat; however, this woody perennial shrub would have been identifiable if present on the site and it was not observed. |
| Arcuate bush-mallow<br>*Malacothamnus arcuatus* | CRPR 1B | Habitat: chaparral and cismontane woodland.<br>Elevation: 15-355 meters<br>Life form: perennial shrub<br>Blooms: April–September | **Absent**. Marginal habitat is present on the site within woodland habitat; however, this woody perennial shrub would have been identifiable if present on the site and it was not observed. |
| Marsh microseris<br>*Microseris paludosa* | CRPR 1B | Habitat: closed-cone coniferous forest, cismontane woodland, coastal scrub, and valley and foothill grasslands.<br>Elevation: 5-300 meters<br>Life form: annual herb<br>Blooms: April–June | **Absent**. Marginal habitat is present on the site within woodland habitat, however, focused surveys for special status plants conducted in 2018 failed to detect this species on the site. |

**TABLE 1B. SPECIAL STATUS PLANT SPECIES THAT COULD OCCUR IN THE PROJECT VICINITY.**
**PLANTS (ADAPTED FROM CDFW 2021 AND CNPS 2021)**
***Other special status plants with California Rare Plant Ranks***

| Common and scientific names | Status | General habitat description and blooming period | *Occurrence in the study area |
|---|---|---|---|
| Dudley's lousewort<br>*Pedicularis dudleyi* | CR, CRPR 1B | Habitat: redwood forest, chaparral, cismontane woodland, valley and foothill grassland; Prefers low density of understory plants and reduced cover of competing herbs and shrubs (Hauser 2019).<br>Elevation: 60-900 meters<br>Life form: perennial herb<br>Blooms: April–June | **Absent**. Marginal habitat is present on the site within woodland habitat, however, focused surveys for special status plants conducted in 2018 failed to detect this species on the site. |
| Santa Cruz Mountains beardtongue<br>*Penstemon rattanii var. kleei* | CRPR 1B | Habitat: chaparral, lower montane coniferous forest, and North Coast coniferous forest.<br>Elevation: 400-1100 meters<br>Life form: perennial herb<br>Blooms: May–June | **Absent**. No suitable habitat is present on the site for this species. |
| Rock sanicle<br>*Sanicula saxatilis* | CR, CRPR 1B | Habitat: rocky ridges or talus in chaparral, woodlands, broadleaved upland forest, valley and foothill grassland.<br>Elevation: 620-1175 meters<br>Life form: perennial herb<br>Blooms: April–May | **Absent**. No suitable habitat is present on the site for this species. |
| Pacific Grove clover<br>*Trifolium polyodon* | CR, CRPR 1B | Habitat: closed-cone coniferous forest, coastal prairie, meadows and seeps, valley and foothill grassland.<br>Elevation: 5-425 meters<br>Life form: annual herb<br>Blooms: April–June | **Absent**. No suitable habitat is present on the site for this species. |
| Santa Cruz clover<br>*Trifolium buckwestiorum* | CRPR 1B | Habitat: vernally most swales to saturated clay-rich upland soils in grasslands and coastal prairie, edges of humic soil-openings in broadleaved upland forest, and cismontane woodland.<br>Elevation: 105-610 meters<br>Life form: annual herb<br>Blooms: April–October | **Absent**. No suitable habitat is present on the site for this species. |

Present: Species observed on the site at time of field surveys or during recent past.
Likely: Species not observed on the site, but it may reasonably be expected to occur there on a regular basis.
Possible: Species not observed on the site, but it could occur there from time to time.
Unlikely: Species not observed on the site and would not be expected to occur there except as a transient.
Absent: Species not observed on the site and precluded from occurring there because habitat requirements not met.

STATUS CODES

| | | | |
|---|---|---|---|
| FE | Federally Endangered | CE | California Endangered |
| FT | Federally Threatened | CT | California Threatened |
| FPE | Federally Endangered (Proposed) | CR | California Rare |
| FC | Federal Candidate | CSC | California Species of Special Concern |
| CRPR | California Rare Plant Rank | CFP | California Fully Protected |

**TABLE 2A: SPECIAL STATUS SPECIES THAT COULD OCCUR IN THE PROJECT VICINITY.**
**ANIMALS (ADAPTED FROM CDFW 2021 AND USFWS 2021)**
***Species Listed as Threatened or Endangered under the State and/or Federal Endangered Species Acts***

| Common and scientific names | Status | General habitat description | *Occurrence in the study area |
|---|---|---|---|
| Mount Hermon June beetle *Polyphylla barbata* | FE | Zayante Sandhills of Santa Cruz County. Habitat includes sand parkland and sandy areas in chaparral and ponderosa pine stands. | **Present**. This species was confirmed to be present on the site in low numbers during protocol-level presence/ absence studies conducted by Dr. Dick Arnold in 2004 and 2016 (ECS 2004, 2016). In his report, however, Dr. Arnold described habitats on the site as poor for this species. |
| Ohlone tiger beetle (OTB) *Cicindela ohlone* | FE | California native grasslands with California oatgrass and purple needlegrass; prefers sunlit barren or sparsely vegetated grasslands with mima mound topography. | **Absent**. The site does not support habitat for this species as its preferred native grasses were absent from the site. No potential OTB larval burrows were observed in any portion of the site during previous surveys. |
| Zayante band-winged grasshopper *Trimerotropis infantilis* | FE | Endemic to the Zayante Sandhills of Santa Cruz County. Habitat includes sand parkland and sandy areas in chaparral and ponderosa pine stands. Co-occurs with the plant Erysimum teretifolium. | **Unlikely**. The site is within a larger area designated as Critical Habitat for this species; however, a previous study concluded there was no suitable habitat on the site itself and that the species only had a low potential to occur (ECS 2004). |
| Monarch butterfly *Danaus plexippus* | FT (candidate) | Overwinter on the California coast in relatively dense grove of trees, such as Monterey pine, Monterey cypress, or eucalyptus. Host plant is the milkweed. | **Unlikely**. No monarchs were observed during the December 2021 surveys, and, although potentially suitable overwintering habitat for this species is present onsite, including Monterey pine and Monterey cypress trees, there are no known inland overwintering sites noted in the monarch database, and the site occurs outside of the known overwintering range for this species (Pelton et. al. 2016). |
| Smith's blue butterfly *Euphilotes enoptes smithi* | FE | Endemic to inland and coastal sand dunes, serpentine grasslands, and cliff-side chaparral habitats with Eriogonum species in Monterey, Santa Cruz, and San Mateo Counties, CA. | **Absent**. The species' requisite habitats do not occur onsite. Furthermore, no Eriogonum species were observed onsite. |

**TABLE 2A: SPECIAL STATUS SPECIES THAT COULD OCCUR IN THE PROJECT VICINITY.**
**ANIMALS (ADAPTED FROM CDFW 2021 AND USFWS 2021)**
***Species Listed as Threatened or Endangered under the State and/or Federal Endangered Species Acts***

| | | | |
|---|---|---|---|
| California red-legged frog<br>*Rana draytonii* | FT, CSC | Dense, shrubby riparian vegetation such as arroyo willow, cattails, and bulrushes with still or slow-moving water. Perennial streams or ponds are preferred, and a salinity of no more than 4.5%. | **Absent**. The only aquatic habitat on the site consists of the golf course pond which is now dry, or almost dry, since closure of the golf course when they stopped filling it. During the golf course operation, this pond was noted by Wetland Resource Associates to support both fish and bullfrogs that would have made the pond unsuitable as CRLF breeding habitat, since these species are predatory on CRLF. Additionally, there are no documented occurrences of this species within a three-mile radius of the site. |
| Foothill yellow-legged frog<br>*Rana boylii* | CE, CSC | Occurs in swiftly flowing streams and rivers with rocky substrate with open, sunny banks in forest, chaparral, and woodland habitats, and can sometimes be found in isolated pools and ponds. | **Absent**. An adequate waterway and preferred habitat are absent from the site. The most recent CNDDB occurrence within 5km is over 60 years old. |
| California tiger salamander<br>*Ambystoma californiense* | FT, CT | Breeds in vernal pools and stock ponds of central California. Adults aestivate in grassland habitats adjacent to the breeding sites. | **Absent**. No historic or current records of this species are known within this part of the Santa Cruz range. The nearest recorded observation in the CNDDB is more than 10 km to the northeast of the site. |
| Santa Cruz long-toed salamander<br>*Ambystoma macrodactylum croceum* | FE, CE, CP | Endemic to the coast of Monterey Bay in southern Santa Cruz County and the northern edge of Monterey County. Occurs in dense riparian vegetation, thick coastal scrub, and oak woodland. Breeds in ponds, drying triggers transformation. Non-breeding adults occur under wood, logs, rocks, bark, rotten logs, and moist places underground such as burrows near breeding ponds. | **Absent**. The site is not within the limited range of the Santa Cruz long-toed salamander. |
| Tricolored Blackbird<br>*Agelaius tricolor* | CT, CSC | Breeds near fresh water, primarily emergent wetlands, with tall thickets. Forages in grassland and cropland habitats. | **Unlikely**. The site does not provide breeding and nesting habitat for this species. The disturbed onsite grasslands provide marginal foraging habitat. While this species is known to forage up to 5 km from its colony (Meese 2017), the closest colony or documented occurrence is more than 10 km southwest of the site in Santa Cruz. |
| Bank Swallow<br>*Riparia riparia* | CT | Occurs in open areas near flowing water, nests in steep banks along inland water or coast. State-wide. | **Absent**. The site does not provide breeding nor foraging habitat for this species. |

**TABLE 2A: SPECIAL STATUS SPECIES THAT COULD OCCUR IN THE PROJECT VICINITY.**
**ANIMALS (ADAPTED FROM CDFW 2021 AND USFWS 2021)**
***Species Listed as Threatened or Endangered under the State and/or Federal Endangered Species Acts***

| | | | |
|---|---|---|---|
| Marbled murrelet<br>*Brachyramphus marmoratus* | FT, CE | Occurs in coastal salt water areas, usually within 2 km from the coast and occasionally rivers and lakes within 20 km from the ocean, but nests in old growth coniferous forests usually within 9 km from the ocean. | **Absent**. The requisite habitats are not found on the project site. |
| Cougar (Central Coast ESU)<br>*Puma concolor* | CT (Candidate) | Occurs in a wide range of habitats including, but not limited to, conifer forest, chaparral and riparian and oak woodlands. | **Unlikely**. The site does not offer habitat of suitable size and quality for this species. The surrounding area is developed enough to likely impede access to the site. The nearest verified puma occurrence was in October 2016, in Felton, CA located approximately 5 km (3 mi) southeast of the site (Bay Area Puma Project 2021). The closest unverified sighting was approximately 5km northeast of the site, near Glenwood Preserve documented in January 2020. |

**TABLE 2B: SPECIAL STATUS SPECIES THAT COULD OCCUR IN THE PROJECT VICINITY.**
**ANIMALS (ADAPTED FROM CDFW 2021 AND USFWS 2021)**
***Species Considered California State Species of Special Concern or Fully Protected***

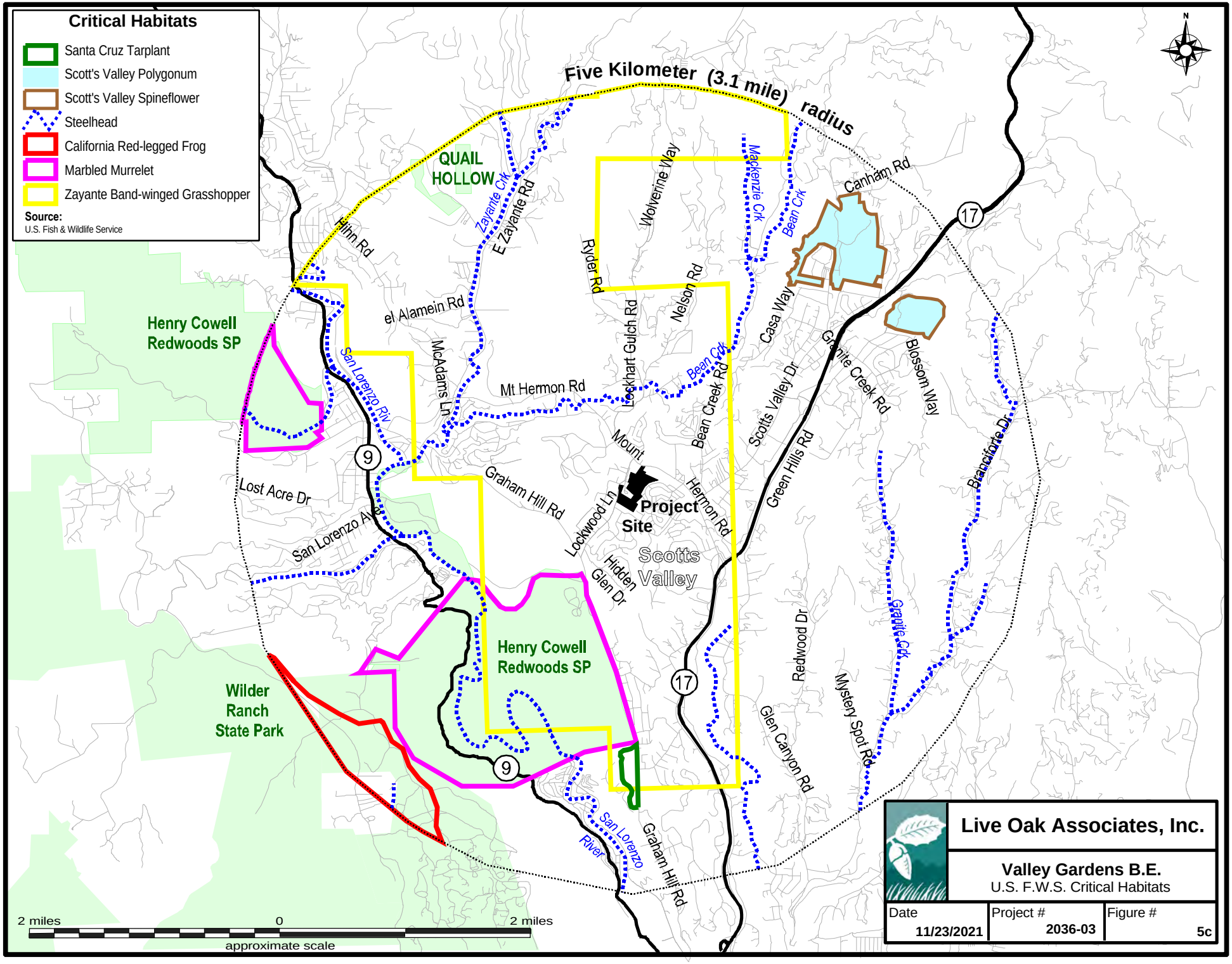
| Common and scientific names | Status | General habitat description | *Occurrence in the study area |
|---|---|---|---|
| Coast horned lizard<br>*Phrynosoma blainvillii* | CSC | Occur in grasslands, scrublands, oak woodlands, etc. of central California. Common in sandy washes with scattered shrubs and along dirt roads | **Unlikely**. The site provides marginal habitat for this species. The closest documented occurrence is more than 10 km northwest of the site documented in May 2019 (iNaturalist 2021). |
| Western pond turtle<br>*Emys marmorata* | CSC | Intermittent and permanent waterways that are either still or slow-moving including streams, marshes, rivers, ponds and lakes throughout much of California. Needs rocks/logs for basking and sandy banks or grassy open fields for egg laying. | **Unlikely**. Site lacks any waterways, and the ponds would only provide marginal habitat. The only CNDDB record within 5km occurred in 2008. |
| Santa Cruz black salamander<br>*Aneides niger* | CSC | Occurs in deciduous woodland, coniferous forests, and coastal grasslands around the Santa Cruz Mountains and foothills. This species is also known to occur on the developed flats in pockets within older developments. They can be found under rocks near streams, in talus, under damp logs, rotting wood, and other objects. | **Unlikely**. Although there may be marginal habitat found onsite, the most recent occurrence within 5km, per CNDDB, was over 50 years ago. |

**TABLE 2B: SPECIAL STATUS SPECIES THAT COULD OCCUR IN THE PROJECT VICINITY.**
**ANIMALS (ADAPTED FROM CDFW 2021 AND USFWS 2021)**
***Species Considered California State Species of Special Concern or Fully Protected***

| Common and scientific names | Status | General habitat description | *Occurrence in the study area |
|---|---|---|---|
| California Giant Salamander *Dicamptodon ensatus* | CSC | Occurs in or adjacent to cold clear permanent to semi-permanent streams and seeps. | **Absent**. Habitat required by this species is absent from the site. |
| American peregrine falcon (nesting) *Falco peregrines anatum* | CP | Individuals breed on cliffs in the Sierra or in coastal habitats; occurs in many habitats of the state during migration and winter. | **Unlikely**. Nesting habitat is absent from the site and foraging habitat is very marginal for this species. The closest known occurrence is more than 10 km northwest of the site (CNDDB Occurrence #15). |
| White-tailed Kite (nesting) *Elanus leucurus* | CP | Open grasslands and agricultural areas throughout central California. | **Unlikely**. The site does not offer suitable nesting habitat; limited foraging habitat is available in the grasslands of the site. |
| Black swift (nesting) *Cypseloides niger* | CSC | Migrants found in many habitats of state; in Sierra nests are often associated with waterfalls. | **Absent**. The site does not provide suitable breeding or foraging habitat for this species. |
| Golden Eagle *Aquila chrysaeto* | CP | Typically frequents rolling foothills, mountain areas, sage-juniper flats and desert. | **Unlikely**. Preferred habitats do not exist onsite. There are no CNDDB observations of this species within the surrounding area. |
| Burrowing owl *Athene cunicularia* | CSC | Open, dry grasslands, deserts and ruderal areas. Requires suitable burrows. Often associated with California ground squirrels. | **Unlikely**. Minimal burrows on the site that could serving as nesting habitat for this species. The closest documented occurrence of this species is more 10 km southwest of the site, by UC Santa Cruz. |
| Purple martin *Progne subis* | CSC | Cavity nester, nests widely in man-made birdhouses. | **Unlikely**. The trees onsite may provide potential nesting habitat, also potential for foraging on site. However, the nearest/most recent CNDDB record is over 7 years old and was over 10miles away. |
| Yellow rail *Coturnicops noveboracensis* | CSC | Frequents grassy meadows and sedge marshes with dense cover; breeds in marshes. | **Unlikely**. Habitat for the yellow rail would be marginal, as the meadows that occur onsite are not wet and marshy. Would only occur in winter. Last CNDDB record within the surrounding area is over 100yrs old. |
| Townsend's Big-eared bat *Corynorhinus townsendii* | CSC | Primarily a cave-dwelling bat that may also roost in buildings, bridges, rock crevices, and hollow trees. Occurs in a variety of habitats. | **Unlikely**. Suitable foraging habitat for this species is present on the site, roosting habitat is may be minimal but likely absent. |
| Pallid bat *Antrozous pallidus* | CSC | Grasslands, chaparral, woodlands, and forests of California; most common in dry rocky open areas that provide roosting opportunities; buildings, bridges, live trees, and snags are also used for roosts (Gervais 2016). | **Possible**. Foraging habitat is present on the site. The woodlands of the site offer potential roosting habitat. |

**TABLE 2B: SPECIAL STATUS SPECIES THAT COULD OCCUR IN THE PROJECT VICINITY.**
**ANIMALS (ADAPTED FROM CDFW 2021 AND USFWS 2021)**
***Species Considered California State Species of Special Concern or Fully Protected***

| Common and scientific names | Status | General habitat description | *Occurrence in the study area |
|---|---|---|---|
| San Francisco dusky-footed woodrat *Neotoma fuscipes annectens* | CSC | Hardwood forests, oak riparian and shrub habitats. | **Present**. Numerous woodrat nests were observed during the December 2021 survey and were also previously noted in a previous biological assessment (WRA 2006). These nests occurred in the wooded areas along the site perimeter. |
| American badger *Taxidea taxus* | CSC | Found in drier open stages of most shrub, forest and herbaceous habitats with friable soils. | **Unlikely**. The site offers marginal habitat for this species. The closest known occurrence is more than 10 km southwest of the site. |
| Ringtail *Bassariscus astutus* | CP | Occurs in riparian and heavily wooded habitats near water. Denning areas include rock crevices, boulder piles, underground cavities, hollow trees or underground in hollow roots of trees (CDFG 1980) | **Absent.** The site lacks riparian habitat and rocky areas preferred by this species. The are no known occurrences in the area. |


Critical Habitats
Santa Cruz Tarplant
Scott's Valley Polygonum
Scott's Valley Spineflower
Steelhead
California Red-legged Frog
Marbled Murrelet
Zayante Band-winged Grasshopper
Source:
U.S. Fish & Wildlife Service
Five Kilometer (3.1 mile) radius
QUAIL HOLLOW
Henry Cowell Redwoods SP
Wilder Ranch State Park
Project Site
Scotts Valley
Zayante Crk
E Zayante Rd
Hihn Rd
el Alamein Rd
San Lorenzo Riv
McAdams Ln
Mt Hermon Rd
Graham Hill Rd
Lost Acre Dr
San Lorenzo Ave
Lockwood Ln
Hidden Glen Dr
Mount Hermon Rd
Bean Creek Rd
Lockhart Gulch Rd
Ryder Rd
Nelson Rd
Wolverine Way
Mackenzie Crk
Bean Crk
Canham Rd
Casa Way
Scotts Valley Dr
Granite Creek Rd
Blossom Way
Green Hills Rd
Brancifort Dr
Redwood Dr
Granite Crk
Mystery Spot Rd
Glen Canyon Rd
San Lorenzo River
Graham Hill Rd
9
17
2 miles
0
2 miles
approximate scale
Live Oak Associates, Inc.
Valley Gardens B.E.
U.S. F.W.S. Critical Habitats
Date 11/23/2021
Project # 2036-03
Figure # 5c

## 2.5 DESIGNATED CRITICAL HABITAT

The USFWS often designates areas of critical habitat when it lists species as threatened or endangered. Critical habitat is a specific geographic area, or combination of areas, that contain features essential for the conservation of a threatened or endangered species and that may require special management and protection.

The site occurs within critical habitat designated for the federally endangered Zayante band-winged grasshopper (*Trimerotropis infantilis*) (Figure 5c), but suitable habitat is absent on-site.

## 2.6 SENSITIVE NATURAL COMMUNITIES AND HABITATS

California contains a wide range of natural communities, or unique assemblages of plants and animals. These communities have largely been classified and mapped by CDFW as part of its natural heritage program. Natural communities are assigned state and global ranks according to their rarity and the magnitude and trend of the threats they face. Sensitive natural communities are those that are listed by CDFW based on their range, limited distribution, rarity, and threats from development (CDFW 2021) (Figure 2). Natural communities with a state rank of 1 to 3 (based on a 1 to 5 scale) are considered sensitive and must be considered in CEQA review. Examples of sensitive natural communities include but are not limited to rare vegetation communities occurring around wetlands.

As indicated prior, the majority of the project site is underlain by Zayante coarse sand soils, which is a soil type that is associated in the region with a unique plant community. Where this community is still present and undeveloped, it supports a mosaic of ponderosa pine, chaparral dominated by shrub species such as manzanita, as well as sparsely vegetated areas. This habitat type in the project vicinity is known to support several endangered invertebrate and plant species (Tables 1 and 2, above). There are still remnant patches of natural woodland vegetation on the site that are presumably on native Zayante soils, but the vast majority of the site has been altered by the construction and long-term maintenance of the golf course, including bringing in non-native topsoils and the planting of turf grass and other exotic species. As indicated prior, one endangered species endemic in Zayante sand hill habitats, the Mount Hermon June beetle, has been found present on the site in low numbers. As also indicated prior, a focused rare plant survey was conducted on the site and no special status plant species were identified as being present within the remnant natural communities.

The golf course pond is a man made feature constructed both as water hazards and to store irrigation water. The pond was artificially filled by pumping water into it from an onsite well. While the golf course was still operational, this feature was maintained including the removal of most vegetation around the perimeter. As a result, the pond supported only a small amount of wetland vegetation around the perimeter, and one small patch of riparian vegetation. Once the golf course closed, artificial filling of the pond was discontinued, and it began to dry out quickly. During LOA's December 2021 site visit, the pond was almost completely dry, with only a small portion of the westernmost pond still observed to hold shallow water, presumably as a result of recent rainfall. Both the Regional Water Quality Control Board (RWQCB) and the U.S. Army Corps of Engineers (USACE) determined that the golf course ponds were not jurisdictional because they are manmade features. While the pond may have provided some value as aquatic habitat for native wildlife while it was still being artificially filled, the value of the dry, or mostly dry, pond as habitat for native wildlife currently would be marginal and similar to the habitat functions and values of the surrounding golf course areas. We would not consider the dry pond to be a sensitive habitat.

## 2.7 WILDLIFE MOVEMENT CORRIDORS

Wildlife movement corridors are areas where regional wildlife populations regularly and predictably move during dispersal or migration. In California, movement corridors are typically associated with valleys, rivers and creeks supporting riparian vegetation, and ridgelines. The importance of an area as a movement corridor depends on the wildlife species being considered and their consistent use patterns. Animal movements generally can be divided into three major behavioral categories:

- Movements within a home range or territory;
- Movements during migration; and
- Movements during dispersal.

Movements on and across the site are expected to consist of typical movements associated with an individual animal's home range**.** There are no unique features on the site, such as a riparian corridor, that would lend the site to facilitating regional animal movements and the site is surrounded by development, which would hinder migration through the site for most terrestrial animal species.

## 2.8 JURISDICTIONAL WATERS

Jurisdictional waters include rivers, creeks, and drainages that have a defined bed and bank and which, at the very least, carry ephemeral flows. Jurisdictional waters also include, but are not limited to, lakes, ponds, reservoirs, and wetlands. Such waters may be subject to the regulatory authority of the U.S. Army Corps of Engineers (USACE), the California Department of Fish and Wildlife (CDFW), and the California Regional Water Quality Control Board (RWQCB).

A formal wetland delineation was conducted on the site in December 2017 and January 2018, and was submitted to the USACE for verification. The only potentially jurisdictional features identified on the site were the manmade golf course ponds that were artificially filled when the golf course was still in operation. The USACE issued a Jurisdictional Determination for the site (USACE 2018) and did not claim the pond was a waters of the U.S. because it is a man made and isolated feature. The RWQCB subsequently also determined that the pond was not a water of the state under their jurisdiction.

# 3 REGULATORY FRAMEWORK

This section discusses the regulatory framework within which the project must be implemented. This includes a summary of the federal, state, and local laws regulating biological resources and any other environmental policies and plans relevant to this analysis.

## 3.1 THREATENED AND ENDANGERED SPECIES

State and federal "endangered species" legislation has provided the CDFW and USFWS with a mechanism for conserving and protecting plant and animal species of limited distribution and/or low or declining populations. Species listed as threatened or endangered under provisions of the state and federal Endangered Species Acts, candidate species for such listing, state species of special concern, and some plants listed as endangered by the California Native Plant Society are collectively referred to as "species of special status." Permits may be required from both the CDFW and USFWS if activities associated with a proposed project will result in the take of a listed species. To "take" a listed species, as defined by the state of California, is "to hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture or kill" said species (California Fish and Game Code, Section 86). "Take" is more broadly defined by the federal Endangered Species Act to include "harm" of a listed species (16 USC, Section 1532(19), 50 CFR, Section 17.3). Furthermore, the CDFW and the USFWS are responding agencies under CEQA. Both agencies review CEQA documents to determine the adequacy of their treatment of endangered species issues and to make project-specific recommendations for their conservation.

## 3.2 MIGRATORY BIRDS

State and federal laws also protect most bird species. The State of California signed Assembly Bill 454 into law in 2019, which clarifies native bird protection and increases protections where California law previously deferred to Federal law. The Federal Migratory Bird Treaty Act (FMBTA: 16 U.S.C., scc. 703, Supp. I, 1989) prohibits killing, possessing, or trading in migratory birds, except in accordance with regulations prescribed by the Secretary of the Interior. This act encompasses whole birds, parts of birds, and bird nests and eggs.

## 3.3 BIRDS OF PREY

Birds of prey are protected in California under provisions of the State Fish and Game Code, Section 3503.5, which states that it is "unlawful to take, possess, or destroy any birds in the order Falconiformes or Strigiformes (birds of prey) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by this code or any regulation adopted pursuant thereto." Construction disturbance during the breeding season could result in the incidental loss of fertile eggs or nestlings, or otherwise lead to nest abandonment. Disturbance that causes nest abandonment and/or loss of reproductive effort is considered "taking" by the CDFW.

Additionally, the Bald and Golden Eagle Protection Act (16 U.S.C., scc. 668-668c) prohibits anyone from taking bald or golden eagles, including their parts, nests, or eggs, unless authorized under a federal permit. The act prohibits any disturbance that directly affects an eagle or an active eagle nest as well as any disturbance caused by humans around a previously used nest site during a time when eagles are not present such that it agitates or bothers an eagle to a degree that

interferes with or interrupts normal breeding, feeding, or sheltering habits, and causes injury, death or nest abandonment.

### 3.4 BATS

Section 2000 and 4150 of the California Fish and Game Code states that it is unlawful to take or possess certain species, including bats, without a license or permit, as required by Section 3007. Additionally, Title 14 of the California Code of Regulations states it is unlawful to harass, herd, or drive certain species, including bats. To harass is defined as "an intentional act which disrupts an animal's normal behavior patterns, which includes, but is not limited to, breeding, feeding or sheltering." For these reasons, bat colonies in particular are considered sensitive and, therefore, disturbances that cause harm to bat colonies are unlawful.

### 3.5 JURISDICTIONAL WATERS AND WETLANDS

Jurisdictional waters include waters of the United States subject to the regulatory authority of the U.S. Army Corps of Engineers (USACE) and waters of the State of California subject to the regulatory authority of the California Department of Fish and Wildlife (CDFW) and/or the California Regional Water Quality Control Board (RWQCB).

#### 3.5.1 Clean Water Act, Section 404

The USACE regulates the filling or grading of Waters of the U.S. under the authority of Section 404 of the Clean Water Act. Drainage channels and adjacent wetlands may be considered "waters of the United States" or "jurisdictional waters" subject to the jurisdiction of the USACE. The extent of jurisdiction has been defined in the Code of Federal Regulations and clarified in federal courts.

The definition of waters of the U.S. have changed several times in recent years. In January 2020, the Environmental Protection Agency (EPA) and USACE jointly issued the Navigable Waters Protection Rule. The new rule was published in the Federal Register on April 21, 2020 and took effect on June 22, 2020.

On August 30, 2021, the U.S. District Court for the District of Arizona issued an order vacating and remanding the Navigable Waters Protection Rule. In light of this order, the EPA and USACE have halted implementation of the Navigable Waters Protection Rule and are interpreting "waters of the United States" consistent with the pre-2015 regulatory regime until further notice.

The pre-2015 regulatory regime defines waters of the U.S. as:

1. All waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;
2. All interstate waters including interstate wetlands;
3. All other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, the use, degradation or destruction of which could affect interstate or foreign commerce including any such waters:

a. Which are or could be used by interstate or foreign travelers for recreational or other purposes; or
b. From which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or
c. Which are used or could be used for industrial purposes by industries in interstate commerce;

4. All impoundments of waters otherwise defined as waters of the United States under this definition;
5. Tributaries of waters identified in paragraphs (s)(1) through (4) of this section;
6. The territorial sea;
7. Wetlands adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs (s)(1) through (6) of this section; waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of CWA (other than cooling ponds as defined in 40 CFR 423.11(m) which also meet the criteria of this definition) are not waters of the United States.

All activities that involve the discharge of dredge or fill material into waters of the U.S. are subject to the permit requirements of the USACE under Section 404 of the Clean Water Act. Such permits are typically issued on the condition that the applicant agrees to provide mitigation that result in no net loss of wetland functions or values. No permit can be issued without a CWA Section 401 Water Quality Certification (or waiver of such certification) verifying that the proposed activity will meet state water quality standards (Section 3.6.2).

### 3.5.2 Porter-Cologne Water Quality Act/Clean Water Act, Section 401

There are nine Regional Water Quality Control Boards (RWQCB) statewide; collectively, they oversee regional and local water quality in California. The RWQCB administers Section 401 of the Clean Water Act and the Porter-Cologne Water Quality Control Act. The RWQCB for a given region regulates discharges of fill or pollutants into waters of the State through the issuance of various permits and orders.

Pursuant to Section 401 of the Clean Water Act, the RWQCB regulates waters of the State that are also waters of the U.S. Discharges into such waters require a Section 401 Water Quality Certification from the RWQCB as a condition to obtaining certain federal permits, such as a Clean Water Act Section 404 permit (Section 3.6.1). Discharges into all Waters of the State, even those that are not also Waters of the U.S., require Waste Discharge Requirements (WDRs), or a waiver of WDRs, from the RWQCB.

The Porter-Cologne Water Quality Control Act, Water Code Section 13260, requires that "any person discharging waste, or proposing to discharge waste, within any region that could affect the 'waters of the State' to file a report of discharge" with the RWQCB. Waters of the State as defined in the Porter-Cologne Act (Water Code Section 13050[e]) are "any surface water or groundwater, including saline waters, within the boundaries of the state." This gives the RWQCB authority to regulate a broader set of waters than the Clean Water Act alone; specifically, in addition to regulating waters of the U.S. through the Section 401 Water Quality Certification

process, the RWQCB also claims jurisdiction and exercises discretionary authority over "isolated waters," or waters that are not themselves waters of the U.S. and are not hydrologically connected to waters of the U.S.

The RWQCB also administers the Construction Stormwater Program and the federal National Pollution Discharge Elimination System (NPDES) program. Projects that disturb one or more acres of soil must obtain a Construction General Permit under the Construction Stormwater Program. A prerequisite for this permit is the development of a Stormwater Pollution Prevention Plan (SWPPP) by a certified Qualified SWPPP Developer. Projects that discharge wastewater, stormwater, or other pollutants into a Water of the U.S. may require a NPDES permit.

### 3.5.3 California Fish and Game Code, Section 1602

The CDFW has jurisdiction over the bed and bank of natural drainages and lakes according to provisions of Section 1602 of the California Fish and Game Code. Activities that may substantially modify such waters through the diversion or obstruction of their natural flow, change or use of any material from their bed or bank, or the deposition of debris require a Notification of Lake or Streambed Alteration. If the CDFW determines that the activity may adversely affect fish and wildlife resources, a Lake or Streambed Alteration Agreement will be prepared. Such an agreement typically stipulates that certain measures will be implemented to protect the habitat values of the lake or drainage in question.

## 3.6 CITY OF SCOTTS VALLEY POLICIES AND ORDINANCES

### 3.6.1 General Plan

Development in the City of Scotts Valley is guided by the General Plan. The City's 1994 General Plan is being updated so that it can create a comprehensive blueprint for development through 2040. The 2040 General Plan will address environmental conservation as it relates to state legislation regarding greenhouse gases, affordable housing, and energy and water conservation.

Although the project must be consistent with all goals of the current 1994 General Plan, goals that apply or may apply specifically to this project are listed and summarized below.

Goal OSG-316: Protect and conserve natural resources of the planning area including plant and animal habitats, mineral resources, water courses and air quality

Goal OSG-360: To preserve and protect existing viewsheds and scenic open spaces and corridors

Goal OSG-377: To achieve and maintain a harmonious relationship between the natural environment and man-made structures and land-uses.

- In general, the above policies are implemented through the City's development review process and ordinances, and in some cases, through California Environmental Quality Act (CEQA) review.

### 3.6.2 Tree Preservation

The City of Scotts Valley has tree protection regulations (Chapter 32, Section 40.080 of the Municipal Code) that regulates the removal and preservation of trees. The tree protection regulations apply to "protected trees" that included as standing or upright tree meeting the following:

a) Any tree having a main stem or trunk which measures eight (8) inches in diameter, measured fifty-four inches above natural grade, located in a hillside residential zone where the slope of the area within twenty feet of where the tree is located exceeds twenty percent
b) Any tree which existed at the time of any approval granted under any zoning ordinance in effect prior to the adoption of the [tree] ordinance and which was required to the preserved as part of such approval;
c) Any tree required to be planted as condition of any approval under this title;
d) Any tree that was or is required to be planted as a replacement for any unlawfully removed tree;
e) Any oak tree having a main stem or trunk which measures twenty-five inches or greater in circumference (eight inches diameter, approximately) measure fifty-four inches above natural grade. Any multi-trunk oak with an individual trunk of over twelve inches in circumference (four inches diameter, approximately) measured fifty-four inches above the natural grade;
f) Any street tree regardless of size; and
g) All trees which have a forty-inch or greater circumference of any trunk measured fifty-four inches above the natural grade or, in the case of multi-trunk tress, a total of above the natural grade. This provision shall not apply to the following trees: eucalyptus (blue gum), fruit trees and acacias. *It also shall not apply to any bat laurel below and located within the drip line of any established oak tree.*

Protected trees and heritage trees cannot be removed or destroyed without a City-approved tree removal permit and are subject to all other provisions of the City's tree preservation ordinance. Mitigation for removal of trees may be required and may include the on- or off-site planting of replacement trees "which are of a cumulative diameter necessary to equal the diameter of the tree(s) which are approved for removal."

## 3.7 HABITAT CONSERVATION PLANS

No known habitat conservation plans are in effect for this project site.

# 4 IMPACTS AND MITIGATIONS

## 4.1 SIGNIFICANCE CRITERIA

General plans, area plans, and specific projects are subject to the provisions of the California Environmental Quality Act. The purpose of CEQA is to assess the impacts of proposed projects on the environment before they are constructed. For example, site development may require the removal of some or all existing vegetation. Animals associated with this vegetation could be destroyed or displaced. Animals adapted to humans, roads, buildings, pets, etc., may replace those species formerly occurring on a site. Plants and animals that are state and/or federally listed as threatened or endangered may be destroyed or displaced. Sensitive habitats such as wetlands and riparian woodlands may be altered or destroyed. These impacts may be considered significant. According to 2021 CEQA Status and Guidelines (2021), "Significant effect on the environment" means a substantial, or potentially substantial, adverse change in any of the physical conditions within the area affected by the project including land, air, water, minerals, flora, fauna, ambient noise, and objects of historic or aesthetic interest. Specific project impacts to biological resources may be considered "significant" if they will:

- 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;
- Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service;
- 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;
- Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites;
- Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance; and
- Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.

## 4.2 IMPACTS AND MITIGATIONS SPECIFIC TO THE PROJECT SITE

The following discussion of project impacts and mitigations is based on the project as described by the applicant in their written project description provided to LOA in December 2021 and on the site plan sheet prepared by RJA dated December 15, 2021.

### 4.2.1 Special Status Plants

**Potential Impacts.** LOA conducted an analysis of the potential for rare plants to occur on the project site back in 2016. At that time, we determined that habitat for special status plants was limited to small areas of natural vegetation occurring in the northeastern portion of the site and along the southwestern, southern, and southeastern boundaries of the site. We determined that there was some potential for 16 species to occur in these habitats. LOA conducted focused surveys for these rare plant species in summer 2016 and spring 2018 when these species would be blooming and identifiable if present but no special status plant species was detected on the site and they are presumed absent and unlikely to colonize the site in the future. Therefore, the project is not expected to have a significant impact on any special status plant populations. LOA's report of findings from the focused plant surveys can be found in Appendix C.

**Mitigation.** None required.

### 4.2.2 Special Status Wildlife

**Potential Impacts**. Most of the special status animal species known to occur in the region do not have the potential to occur on site because habitats on the site are not suitable for them, landscape barriers would block their access to the project site, and/or the site is located outside of their known range (Table 2). Species considered to be absent from, or unlikely to occur on, the project site have no appreciable potential to be affected by the project, and no avoidance, minimization, or mitigation measures are proposed for those species.

Based on presence/absence surveys conducted by Dr. Dick Arnold in 2004 and 2016, we know that the endangered Mount Hermon June beetle is present in low numbers on the site. Impacts resulting in a loss of habitat for this species would be considered a significant impact.

At least five San Francisco dusky-footed woodrat nests are present within dense woody vegetation in woodland habitat in the northeast corner of the site. This species is considered a California species of special concern. The loss of a small amount of habitat for this species would be considered less-than-significant as much better habitat is abundant in the vicinity of the site outside of the developed environs of Scotts Valley. However, potential harm or mortality to individual woodrats, if this habitat is being currently utilized and is impacted by the proposed development, would be considered a significant impact.

The pallid bat, also considered a California state species of special concern, has some potential to forage and roost on the site (Table 2). Loss of foraging and roosting habitat for this species would be considered less than significant, as higher quality habitat is abundant in the project region for this species; however, any project activities that result in harm or mortality to individual pallid bats would be considered a significant impact of the project.

No monarch butterflies were observed on the site during LOAs December 2021 survey and this species is considered unlikely to overwinter on the site; as, although trees of the site, including Monterey pines and Monterey cypress, could provide some marginal overwintering habitat for this species, there are no known inland overwintering sites that have been documented in Santa Cruz County, and the project site is outside of the known overwintering range for this species

(Pelton et. al. 2016). Therefore, the proposed project is not expected to have a substantial adverse effect on monarch overwintering habitat, however, in the unlikely event that monarch butterflies occur on the site during project construction, construction related harm or mortality to this species may be considered a significant impact of the project.

**Mitigation.** Mitigation for impacts to habitat for the Mount Hermon June beetle, and for potential construction-related impacts to individual pallid bats and other non-special status bats, San Francisco dusky-footed woodrats, and monarch butterflies would be considered significant under CEQA. These impacts are discussed in greater detail, and mitigations to reduce impacts to a less-than-significant level are provided, in Sections 4.2.3 through 4.2.6, below.

### 4.2.3 Impacts to the Mount Hermon June Beetle

**Potential Impacts**. According to Dr. Dick Arnold's 2004 and 2016 presence/absence studies (included in Appendix C), Mount Hermon June beetles (MHJB) were found in low numbers and only on about 38% of the project site. Project impacts to any of the occupied habitat of the site for this species would be considered a significant impact and require mitigation.

**Mitigation**. Prior to any ground disturbance within occupied habitat for the MHJB, the applicant shall submit documentation, to the satisfaction of the City of Scotts Valley Community Development Department demonstrating issuance of an Incidental Take Permit by the U. S. Fish and Wildlife Service (USFWS) for the MHJB. The issuance of an Incidental Take Permit may necessitate the applicant's preparation and implementation of a Habitat Conservation Plan (HCP) (hereafter referred to as the Plan), or equivalent document to the satisfaction of the USFWS, to offset impacts to federally listed threatened species, as allowed under Section 10(a)1 (b) of the Federal Endangered Species Act. The Plan will likely describe measures to avoid and minimize impacts to individual MHJB during and after construction, as well as compensatory mitigation sufficient to offset the permanent loss of this known occupied MHJB habitat; which may include an endowment to fund the maintenance and monitoring of MHJB habitat in perpetuity. The USFWS-approved Plan may include many of the following measures to avoid, minimize and compensate for impacts to MHJB. Implementation of the approved Plan will reduce impacts to a less-than-significant level under CEQA.

**Avoidance and Minimization Measures.** To the extent practicable, the project should be designed to avoid and/or minimize impacts to as much of the occupied habitat as possible. The following Avoidance and Minimization Measures (AMMs) have been provided by MHJB expert Jodie McGraw as typical measures that may be included in a USFWS-approved HCP:

- ***Site Project to Minimize Impacts to MHJB.*** The project is being implemented in a previously degraded habitat area (former golf course). Within the Project site, development will be concentrated in areas where MHJB was not observed or was observed at low to moderate abundance, while areas where MHJB occurred at higher abundance and feature intact habitat will be included in designated Preserve Areas.

- ***Train All Construction Personnel*.** Prior to the initiation of any ground-disturbance, the Project Biologist will conduct a pre-construction training that will be attended by

construction personnel involved in the initial phase of development including site clearing and grading, to facilitate their implantation of species protection measures. The training will include a fact sheet that will provide information about the ecology and threats to the covered species, as well as other special-status species occurring in the Project Area. The fact sheet will include pictures of each species and outline the avoidance and minimization measures that personnel must implement during the course off the project to protect them. All project personnel who join the project after the initial training will be required to participate in a training provided by the Project Biologist or their designee, including via a video training prepared by the Project Biologist.

- ***Control Dust*.** Dust can clog the spiracles of adult beetles and accumulated dust on plants may cause them to experience a decline in vigor or even die, which would affect the roots that larvae of the MHJB may feed upon. Appropriate dust control measures, such as periodically wetting down the work areas, will be used as necessary during grading in the impact area or any other project-related activities that generate dust.

- ***Fence and Sign the Perimeter of the Project Impact Area*.** Prior to initiation of ground-disturbing activities, the Preserve Areas will be fenced using orange construction fencing, 6-foot chain link driven fence, or other durable fence acceptable to the Project Biologist, to ensure all ground-disturbance is avoided in these areas and confined to the designated impact areas. The fences will feature signs that say "Notice: Sensitive Habitat Area. Do Not Enter" to prevent unauthorized entry into the Preserve Areas. All protective fencing and signage will remain in place until project activities have been completed. The Project Biologist will periodically monitor the site to ensure the fences and signage remain intact.

- ***Confine Project work to Impact Areas***. All project activities will be confined to the project impact areas delineated with the fences. All staging, materials lay down, parking, and foot traffic associated with the will be limited to that area. Access to preserve areas will be for habitat management, study, and related activities only, to avoid construction related impacts in these areas.

- ***Minimize Ground-Disturbing Activities during the MHJB Flight Season*.** While it will not be feasible to avoid ground-disturbing activities during the flight season, due to the duration of the project and other seasonal constraints on construction, attempts will be made to conduct soil disturbing activities including grubbing and grading outside of the adult MHJB flight season (May 1- Aug 31) in order to reduce the likelihood that MHJB males will fly into the project area and be impacted by subsequent construction activities.

- ***Monitor Ground-Disturbing Activities*.** During initial ground-disturbing activities including clearing, grubbing, and mass grading, when MHJB has the potential to be impacted by the Project, a qualified biologist will be on site. The Project Biologist will capture and relocate any MHJB to the intact habitat surround the Project Area. Adults or larvae that are unearthed through soil disturbance will be re-buried in the nearest suitable habitat within

the Preserve Area. If an adult MHJB is found on the soil surface, then it will be relocated by the Project Biologist to a portion of the Project Area outside of impacting activities and left on the soil surface in a location protected by vegetation. Work crews will be instructed during the pre-construction training to cease activities that can impact the listed insect, until the Project Biologist can safely remove them from the area.

- ***Avoid Ground Cover that Degrades Habitat for Listed Species*.** The Preserve and Restoration Areas will not feature landscaping elements that may impede the emergence of the MHJB such as turf grass, dense ground cover plants (e.g., ivy), weed matting, or aggregate. Mulch, which is helpful for suppressing exotic plants and promoting growth of container stock, will be limited to materials that will not inhibit MHJB and be: 1) no more than 1" in depth, and 2) comprised of small branches and leaf litter of tree species native to the sandhills**.** Landscaping areas within the Development Areas will limit the use of these elements to the maximum extent practicable, while still achieving the goals for the Project landscaping.

- ***Utilize Native Sandhills Plant Species in Landscaping.*** Because MHJB feeds on plant roots, plants installed in the Preserve and Restoration areas will only include native plants found in the sandhills to which MHJB is adapted. Landscaping areas within the Development Areas will utilize native sandhills plants to maximum extent practicable, while still achieving the goals for the Project landscaping.

- ***Minimize Outdoor Lighting.*** The Project will minimize the use of outdoor night lighting, which attracts MHJB and disrupts the species' behavior including breeding. Lights in Preserve and Restoration Areas will be limited only to those necessary for public health and safety and will: 1) use LED lights with that are minimally attractive to nocturnal insects; specifically, LED lights with wavelengths above 550 nanometers or with a correlated color temperature (CCT) of less than 3000, 2) directed/focused on the area that needs to be illuminated. Additionally, lights will be motion triggered so they are activated only when needed and on timers that limit their duration where feasible. Lights installed within the Residential portion of the Development Area will be designed to minimize the extent to which they would attract MHJB from the Preserve and Restoration Areas and other intact habitat adjacent to the Development Area through the measures above and by directing the light away from the Preserve and Restoration areas as well as adjacent vegetated areas on the perimeter, wherever possible.

**Compensation**. The project as proposed would not be able to avoid all occupied habitat for this species, therefore, compensatory measures would likely be required in the Plan. Because the habitat value for this species on the site is low, based on Dr. Arnold's opinion as stated in the reports of his findings, mitigation for a loss of habitat at an appropriate ratio, given the low habitat value for this species, would mitigate the loss of habitat to a less-than-significant level under CEQA. This mitigation could be achieved by one or a combination of the following four methods:

- Restoring and/or preserving onsite habitats;
- Restoring and/or preserving offsite habitats;
- By the purchase of credits at a conservation bank; and
- Other methods as approved by the USFWS approved HCP.

Should compensatory measures for MHJB be conducted on or off-site, a Resource Management Plan (RMP) may need to be prepared by a qualified biologist and implemented by the applicant. The RMP may include many of the following elements:

- Location of areas to be restored and/or preserved and the mechanism by which these areas will be preserved in perpetuity.
- Party or parties responsible for implementation of the RMP.
- Allowed and prohibited activities on preserved lands.
- The locations and types of any fencing, signs and / or displays to be constructed on preserved lands.
- A monitoring and management plan (MMP) to ensure success of any restored/preserved areas, including monitoring populations of the MHJB on the restored/preserved areas. The prepared MMP will likely include the timing of monitoring and the duration of the monitoring period (typically monitoring would occur annually for a minimum of 3 years). The MMP is likely to set forth both interim and final success criteria.
- A monitoring and management plan for non-native and / or invasive species considered detrimental to protected resources (i.e. weed abatement and invasive species removal).
- The types, frequency and timing of any maintenance activities to be conducted on preserved lands (i.e., litter removal, fence or sign repairs, fire prevention activities such as mowing, etc.).
- A description of the funding of the RMP.
- By obtaining and implementing an Incidental Take Permit from the USFWS, project impacts to the MHJB will be reduced to a less-than-significant level.

### 4.2.4 Impacts to the Pallid Bat and to Non-special Status Bats

**Potential Impacts.** The site's mature trees have the potential to be used by roosting bats, including the special-status pallid bat. If roosting bats are present at the time of tree removal, individual bats could be injured or killed. Such an event would constitute a violation of the state laws protecting bats and would be considered a significant impact.

**Mitigation.** The following avoidance and minimization measures when implemented would reduce impacts to roosting bats, including the pallid bat, to a less-than-significant level.

- **Habitat Assessment and Preconstruction Survey.** A bat habitat assessment will be conducted by a qualified biologist to identify all trees on the site that have the potential to support

roosting bats. Trees and structures determined not to support bat roosting habitat may be removed at any time of year without harm to individual bats. However, any trees identified as providing potential bat roosting habitat will be visually surveyed during a pre-construction survey, as described below.

- A pre-construction visual survey of all trees that were determined to provide potential roosting habitat will be conducted no more than 7 days prior to any tree/vegetation removal activities to determine whether roosting bats are present. If the biologist determines that no bats are present, then the tree can be removed at any time of year and will not require a two-step removal process. If bats are determined to be present or if use of the tree by bats cannot be determined during the pre-construction survey, then additional measures including night-time emergence surveys, construction-free buffers and/or a two-step tree removal will be implemented, as described below.
- **Two-Step Tree Removal.** Two-step removal of trees may be utilized to remove trees identified as currently supporting roosting bats or to remove trees that were determined to provide potential habitat but could not be adequately visually surveyed during the pre-construction survey. *However, a two-step tree removal can only be conducted outside of the maternity and over-wintering seasons, i.e., can only be conducted during the periods from March 1 to April 15 or from August 15 to October 15, and only when fair-weather nights are forecasted*. The two-step removal process consists of two consecutive days of work. On Day 1, a qualified biologist would direct a tree trimming crew to trim the tree in such a way as to make the tree less suitable/attractive for bats. To the degree practicable, removed branches should be chipped nearby. The disturbance caused by the noise and vibration of the tree trimming and chipping during Day 1 would serve to encourage any bats using the tree to vacate their roosts. The following day, the tree would be completely removed. A qualified biologist does not need to be present during the Day 2 tree removal activities. To the extent practicable, Day 1 activities should occur in the afternoon or early evening and Day 2 activities should occur during morning hours.
- **Nighttime Emergence Survey.** Alternately, for any trees that could not be adequately visually surveyed during the pre-construction survey, a nighttime emergence survey can be conducted by a qualified biologist on a fair-weather night during the volant season (March 1-October 15) to determine if bats are present. If bats are found to be absent, the tree can be removed; if bats are found to be present, and it is within the maternity season (April 15-August 15), further investigation must occur to determine whether a maternity colony is roosting in the tree. If bats are found to be present and it is outside of the maternity season (March 1 through April 14 or August 16 through October 15), the two-step removal process could be utilized to remove the tree, as described above.
- **Construction-free Buffers.** If a maternity colony or overwintering colony is identified on the site, then a construction-free buffer will be established around the tree(s) and remain in place until it has been determined that the colony is no longer active. Tree removal should occur between March 1 and April 14 or between August 16 and October 15, as described above, utilizing the two-step removal method to avoid interfering with an active nursery and/or overwintering bats.

### 4.2.5 Impacts to San Francisco Dusky-Footed Woodrats

**Potential Impacts.** At least five San Francisco dusky-footed woodrat nests were observed on the project site during the December 2021 field surveys. The San Francisco dusky-footed woodrat is a state species of special concern and any construction activities that result in harm or mortality to this species, or in nest abandonment, may be considered a significant impact under CEQA.

**Mitigation.** The following measures will reduce impacts on individual San Francisco dusky-footed woodrats to a less-than-significant level under CEQA and will ensure compliance with state laws.

**Pre-construction survey**. A qualified biologist will conduct a pre-construction survey for San Francisco dusky-footed woodrat nests no more than 30 days and no less than 14 days prior to the onset of construction activities. This survey timing allows for the scheduling of woodrat nest deconstruction. The survey will encompass all construction zones and surrounding lands within 50 feet. If the results of focused surveys for are negative, no further mitigation is required. If surveys do find the San Francisco dusky-footed woodrat present, the applicant shall prepare a plan to avoid and minimize impacts of the project on the San Francisco dusky-footed woodrat, as described below.

**Nest deconstruction and relocation**. Identified nests will be avoided, where possible. If avoidance is not possible, a qualified biologist shall prepare and submit a nest relocation plan to the CDFW for approval prior to the deconstruction and relocation of any nest(s). The project applicant shall submit documentation to the satisfaction of the Community Development Department demonstrating approval by the California Department of Fish and Wildlife (CDFW) of the relocation plan for the San Francisco dusky-footed woodrat.

The CDFW approved plan would likely include manually deconstructing any nests that cannot be avoided. This deconstruction will be conducted by a qualified biologist (approved by CDFW) likely when helpless young are not present, typically during the non-breeding season (October-January). If practicable, any woodrat nests that are deconstructed as per the above shall be reconstructed on the site within appropriate habitat that will not be impacted by the project.

**Construction-free buffers**. If it is determined during the pre-construction survey that young may be present, a suitable buffer depending on the timing within the breeding season (ranging from 15-50 feet) will be established around the nest and maintained during construction until the young are independent and have successfully moved from the nest on their own.

### 4.2.6 Impacts to Monarch Butterfly

**Potential impacts**. Although no individuals or aggregations of overwintering monarchs were detected during the December 2021 field survey, and although it is considered unlikely that monarchs would overwinter on the site, the site does support some potential overwintering habitat for this species and there is a small likelihood this species could occur on the site in the future. The monarch butterfly is a candidate under the Federal Endangered Species Act (CDFW 2021). While the project will have no significant adverse effect to monarch overwintering habitat, since such habitat is limited on the site and as the site is outside the currently known overwintering range for this species, construction-related impacts to active monarch butterfly

aggregations in the unlikely event that they occur on the site during project construction may be considered significant under CEQA.

**Mitigation.** The following measures will reduce potential impacts on Monarch butterflies to a less-than-significant level under CEQA and will ensure compliance with state laws.

**Pre-construction surveys and Avoidance**. Surveys for monarch butterflies in early spring are warranted to detect active aggregations (defined as a group of over ten Monarch butterflies present for more than a week) on the site. This survey timing allows for detecting Monarchs that typically overwinter till February, making early spring an appropriate time to identify winter roosts. If an active aggregation is present on the project site, all construction, grading, and construction-related noise must be seasonally timed to avoid impacts to aggregating monarch butterflies. If work must occur during the overwintering season (generally between October and March), an approved biologist must survey all habitat trees (e.g., Monterey cypress, coast live oak) within 100 feet of the development area to verify use by monarchs.

If any areas on the site are found to serve as a monarch butterfly aggregation site, indirect impacts must be minimized to the extent practicable. Construction within 100 feet of an aggregation must be delayed until the butterflies abandon the aggregation. With authorization of an approved biologist, construction activities may occur within 100 feet of aggregations under the direction of a biological monitor on the site. Surveys must be conducted in favorable conditions to identify any monarch aggregations within 100 feet of the area proposed for disturbance seven days before construction activities commence.

*If no aggregations are observed, no further mitigation is required*. If monarch aggregations are detected, a temporary fence must be installed along the outer boundary of the buffer zone prior to and during any grading and construction activities on the site.

**Plan Requirements and Timing**. Before the City issues grading or building permits, the Scotts Valley Planning Department, or designee, must verify that construction and grading is occurring outside the winter roosting season, or that monarch surveys have been conducted, and buffer requirements specified above are in place (if applicable). The designated biologist shall prepare and submit a written report of the findings of the pre-construction survey to resource agencies and Scotts Valley for review prior to finalization. This measure, including the fencing location, must be incorporated into the grading plans for the Project.

**Monitoring**. The Scotts Valley Planning Department, or designee, must verify compliance before the City issues any grading or building permit(s) and designate a biological monitor to conduct recurrent site inspections to ensure compliance throughout the construction period.

Implementation of these mitigation measures would reduce potential construction impacts to the monarch butterfly to a less than significant level.

### 4.2.7 Impacts to Nesting Migratory Birds and Raptors

**Potential impacts**. Mud nests of black phoebes were found to be present within the pump house structure located adjacent to the golf course pond during the December 2021 survey, and the project site has the potential to be used for nesting by a variety of other birds including raptors. All nesting raptors and migratory birds, regardless of their status, are protected by state and federal laws. If construction is carried out during the avian nesting season, individual birds may be injured or killed by construction activities or be disturbed such that they would abandon their nests. Construction activities that result in mortality of individual birds or lead to the abandonment of active nests would violate state and federal laws.

**Mitigation.** The following avoidance and minimization measures are recommended:

- **Pre-construction surveys**. If tree removal or ground disturbance activities are scheduled to commence during the avian nesting season (February 1 through August 31), pre-construction surveys should be conducted by a qualified biologist to identify possible nesting activity.
- **Construction-free buffers.** A construction-free buffer of suitable dimensions should be established around any active raptor and migratory bird nests (typically up to 250 feet, depending on the location and species) for the duration of the project or until it has been determined that the chicks have fledged and are independent of their parents.

### 4.2.8 Impacts to Sensitive Natural Communities

**Potential Impacts**. Zayante coarse sand soils underlay most of the project site. This soil type, where not developed, supports a unique vegetation community with several rare plants and insects associated with it, i.e., Zayante sandhills, which is considered a Sensitive Natural Community by CDFW. Although non-native topsoil and turf grasses now occur over most of the native soils of the site, and although the sandhills native vegetation community is absent from the site, the site still supports one species that is rare and endemic in the Zayante sandhills, i.e. the Mount Hermon June beetle (MHJB), although this species is present in low numbers. Because of the presence of the MHJB, and areas of the site where this species occur may still be considered a sensitive community by CDFW.

**Mitigation.** Mitigation for any significant impacts to sensitive Zayante sandhill habitat would be mitigated by compensation measures provided for the Mount Hermon June beetle, above.

### 4.2.9 Impacts Riparian Habitat and Wetlands

**Potential Impact**. The only wetlands occurring on the site were comprised of the golf course pond which is no longer being artificially filled and which are expected to dry completely. As indicated prior, neither the USACE or RWQCB claimed the pond as jurisdictional as a result of them being artificially created and maintained features. Habitat values for the dried pond would be expected to be similar to those of surrounding golf course greens and the loss of the former pond would not be considered a significant impact. A small patch of riparian vegetation, consisting of a few arroyo willows and blackberry shrubs occurs at the northwestern edge of the pond. The loss of this small amount of woody vegetation would not be considered a significant impact of the project.

**Mitigation.** None required.

### 4.2.10 Degradation of Water Quality in Seasonal Drainages, Stock Ponds, and Downstream Waters

**Potential Impacts.** Development of the site will require grading that leaves the soil barren of vegetation and, therefore, vulnerable to sheet, rill, or gully erosion. Eroded soil is generally carried as sediment in surface runoff to be deposited in natural creek beds, canals, and adjacent wetlands. Furthermore, urban runoff is often polluted with grease, oil, pesticide and herbicide residues, heavy metals, etc. These pollutants may eventually be carried to sensitive wetland habitats used by a diversity of native wildlife species. The deposition of pollutants and sediments in sensitive riparian and wetland habitats would be considered a potentially significant adverse environmental impact.

The project proponent is expected to comply with the provisions of applicable permits, including standard erosion control measures that employ best management practices (BMPs). Compliance with the above permit(s) should result in no impact to water quality in seasonal creeks, reservoirs, and downstream waters from the proposed project. In addition, compliance with these permits should not result in the deposition of pollutants and sediments in sensitive riparian and wetland habitats.

**Mitigation.** Mitigation measures are not warranted.

### 4.2.11 Interference with the Movement of Native Wildlife

**Potential Impacts.** Although this site is not within any defined wildlife corridor or landscape linkage, native wildlife is expected to use the site for their daily movements and dispersal movements. However, the site has subject to routine mowing and multi-use recreational activities that impact how and when wildlife use the site. Considering that wildlife do not use the site as a significant movement corridor, development of the site will not significantly impact wildlife migration and dispersal movements. Therefore, the proposed project would have a less-than-significant impact on movements of native wildlife.

**Mitigation.** Mitigation measures are not warranted.

### 4.2.12 Consistency with General Plan

Assuming the project is carried out as described in this report, and assuming the recommended avoidance, minimization, and mitigation measures for impacts described above are implemented, the project appears to be consistent with the City of Scotts Valley General Plan's goals and policies related to natural resources.

**Mitigation.** Mitigation measures are not warranted.

### 4.2.13 Consistency with Tree protection Regulations

The project has the potential to impact a large number of trees on the site, the vast majority of which are protected by the City of Scotts Valley's tree protection regulations. Tree removal requires avoidance, minimization, and compensatory mitigation (see below). In addition, these

impacted trees should still be surveyed for the presence of roosting bats and nesting birds (Sections 4.2.3 and 4.2.7, respectively).

A tree survey was conducted on the site by Monarch Consulting Arborists (MCA) in 2018 and 2020, and an arborist report (MCA 2021) was prepared with the results of the survey and which also provides recommendations for tree protection for retained trees. A total of 573 trees were inventoried on the site with fan palms and coast live oak being most abundant. Of the trees inventoried, 422 will be impacted/removed by the project and the remaining trees will be preserved. Most of the trees on the site are considered to be in good or fair condition. Most if not all of the trees inventoried would meet the City's definition of a protected tree.

**Mitigation.** Per the Scotts Valley Tree protection regulations, a tree removal request shall be included as part of the development application, including an arborist's report that shall be approved by the planning department or city council. The development review process shall seek to preserve healthy and significantly sized trees that are important to the landscape and contribute to the overall aesthetic quality of the area. The following specific avoidance, minimization, and mitigation measures are recommended by the City's tree protection regulations:

- **Tree protection regulation compliance.** Removal and preservation of protected trees should be carried out in compliance with the City of Scotts Valley tree protection regulations (Section 17.44.080(E)(4) of the Municipal Code). The Municipal Code states that where removal of a tree has been specifically authorized as part of any development application approved by the planning department or city council, no additional permit shall be required for removal of such tree. Tree removal request shall be included as part of the development application that should include the following information and shall be subject to the following process for review:

    a. All development plans as well as landscaping and irrigation plans.
    b. The city arborist shall perform a tree survey and/or impact report and make recommendations for trees requiring removal or preservation using development plans provided by the applicant. The report shall include preconstruction treatment and alternative construction methods. Appropriate conditions for long term maintenance of preserved trees shall be evaluated by the city arborist.
    c. Tree preservation measures shall be incorporated as conditions of permit approval.
    d. The city arborist shall place a monetary value on trees preserved on development sites and a surety bond in an amount equal to the value of the preserved trees shall be deposited with the city. If damaged occurs to the preserved trees during development and/or construction, funds will be drawn from the deposited amount. Funds remaining in the account will be returned to the applicant upon final inspection of the project.
    e. During the pre-construction phase of development, the city arborist shall inspect tree protection fencing and the completion of pre-construction treatments. This

inspection shall be completed prior to the issuance of any grading or building permits.

f. The city arborist shall routinely inspect the development site through the term of the project.
g. The cost of the city arborist review and implementation of conditions, site inspection and related work shall be borne by the applicant.

**4.2.14 Habitat Conservation Plans/ Natural Community Conservation Plans (HCP/NCCP)**

**Potential Impacts.** No known HCPs or NCCPs are in effect for this site.

**Mitigation.** Mitigation measures are not warranted.

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# APPENDIX A: VASCULAR PLANTS OF THE PROJECT SITE

## APPENDIX A: VASCULAR PLANTS OF THE STUDY AREA

The plants species listed below were observed on the Valley Gardens project site during field surveys conducted by Live Oak Associates, Inc. on July 19, 2016; December 5, 2017; January 9 and May 1, 2018; and December 6, 2021. The U.S. Fish and Wildlife Service wetland indicator status of each plant has been shown following its common name. Non-native species are denoted with an asterisk.

OBL - Obligate
FACW - Facultative Wetland
FAC - Facultative
FACU - Facultative Upland
UPL - Upland
+/- - Higher/lower end of category
NR - No review
NA - No agreement
NI - No investigation

| | | |
|---|---|---|
| **ADOXACEAE – Elderberry Family** | | |
| *Sambucus cerulea* | Blue elderberry | FACU |
| **ALSTROEMERIACEAE – Peruvian Lily Family** | | |
| *Alstroemeria sp.** | Peruvian lily | UPL - |
| **ALTINGIACEAE – Sweetgum Family** | | |
| *Liquidambar styraciflua** | Liquidambar | UPL |
| **AMARYLLIDACEAE – Amaryllis Family** | | |
| *Agapantha sp. ** | Agapantha | - |
| **ANACARDIACEAE – Sumac Family** | | |
| *Toxicodendron diversilobum* | Poison oak | UPL |
| **APIACEAE – Carrot Family** | | |
| *Conium maculatum** | Poison hemlock | FACW |
| *Foeniculum vulgare** | Sweet fennel | FACU |
| *Torilis arvensis** | Hedge parsley | UPL |
| **APOCYNACEAE – Dogbane Family** | | |
| *Trachelospermum jasminoides** | Star jasmine | UPL |
| **ARALIACEAE – Ginseng Family** | | |
| *Hedera helix** | English ivy | UPL |
| **ARECACEAE – Palm Family** | | |
| *Washingtonia robusta* | Fan palm | UPL |
| **ASTERACEAE - Sunflower Family** | | |

| | | |
|---|---|---|
| *Artemisia douglasiana* | Mugwort | OBL |
| *Baccharis pilularis* | Coyote brush | UPL |
| *Carduus pycnocephalus** | Italian thistle | UPL |
| *Centaurea solstitialis** | Yellow star thistle | UPL |
| *Gnaphalium sp.* | Cudweed | - |
| *Helianthus sp.* | Sunflower | - |
| *Helichrysum luteoalbum** | Weedy cudweed | UPL |
| *Helminthotheca echioides** | Bristly ox-tongue | FAC* |
| *Hypochaeris glabra** | Smooth cat's ear | UPL |
| *Lactuca serriola** | Prickly lettuce | FAC |
| *Silybum marianum** | Milkthistle | UPL |
| *Sonchus arvensis** | Field sowthistle | FACU |
| **BORAGINACEAE – Borage Family** | | |
| *Eriodyction californicum* | Yerba Santa | UPL |
| **BRASSICACEAE – Mustard Family** | | |
| *Hirschfeldia incana** | Summer mustard | UPL |
| *Brassica nigra** | Black mustard | UPL |
| *Lepidium nitidum* | Shining peppergrass | FAC |
| *Raphanus sativa** | Wild radish | UPL |
| **BUDDLEJACEAE – Butterfly Bush Family** | | |
| *Buddleja davidii** | Butterfly bush | UPL |
| **CARYOPHYLLACEAE – Pink Family** | | |
| *Spergularia sp.** | Sand spurrey | FAC/FACW |
| **CISTACEAE – Rock Rose Family** | | |
| *Cistus sp.** | Rock Rose | UPL |
| **CONVOLVULACEAE – Morning-Glory Family** | | |
| *Calystegia occidentalis* | Western morning glory | UPL |
| *Convolvulus arvensis** | Field Bindweed | UPL |
| **CUPRESSACEAE – Cypress Family** | | |
| *Cupressus macrocarpa* | Monterey cypress | UPL |
| *Cupressus sempervirens** | Italian cypress | UPL |
| *Sequoia sempervirens* | Coast redwood | UPL |
| *Thuja sp.** | Arborvitae | UPL |
| **ERICACEAE – Heath Family** | | |
| *Arbutus menziesii* | Pacific madrone | UPL |
| **EUPHORBIACEAE – Spurge Family** | | |
| *Euphorbia crenulata* | Chinese caps | UPL |
| **FABACEAE – Legume Family** | | |
| *Acacia dealbata** | Silver acacia | UPL |
| *Genista monspessulana** | French broom | UPL |

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|---|---|---|
| *Lotus corniculatus** | Bird's foot trefoil | FAC |
| *Mimosa sp.** | Mimosa | UPL |
| *Medicago polymorpha** | Burclover | UPL |
| *Trifolium sp.** | Clover | - |
| *Trifolium hirtum** | Rose clover | UPL |
| *Vicia sativa** | Vetch | UPL |
| **FAGACEAE – Oak Family** | | |
| *Quercus agrifolia* | Coast live oak | UPL |
| **GERANIACEAE – Geranium Family** | | |
| *Erodium sp.** | Filaree | UPL |
| *Geranium dissectum** | Dissected geranium | UPL |
| **LAMIACEAE – Mint Family** | | |
| *Rosmarinus officinalis** | Rosemary | UPL |
| **MALVACEAE – Mallow Family** | | |
| *Hibiscus sp.** | Hibiscus | UPL |
| *Malva parviflora** | Mallow | UPL |
| **MYRTACEAE – Myrtle Family** | | |
| *Acca sellowiana** | Pineapple guava | UPL |
| *Calystemon sp.** | Bottlebrush shrub | UPL |
| **OLEACEAE – Olive Family** | | |
| *Ligustrum sp.** | **P**rivet | UPL |
| *Olea europaea** | Olive | UPL |
| **ONAGRACEAE – Evening Primrose Family** | | |
| *Epilobium brachycarpum* | Annual fireweed | UPL |
| *Epilobium ciliatum* | Fringed willowherb | FACW |
| **OXALIDEACEAE – Wood Sorrel Family** | | |
| *Oxalis oregana* | Oregon wood sorrel | FACU |
| **PAPAVERACEAE – Poppy Family** | | |
| *Eschscholzia californica* | California poppy | UPL |
| **PINACEAE – Pine Family** | | |
| *Pinus canariensis** | Canary Island pine | UPL |
| *Pinus nigra** | Black pine | UPL |
| *Pinus ponderosa* | Ponderosa pine | UPL |
| *Pinus radiata* | Monterey pine | UPL |
| *Cedrus deodara** | Deodar cedar | UPL |
| *Pseudotsuga menziesii* | Douglas fir | UPL |
| **PLANTAGINACEAE – Plantain Family** | | |
| *Plantago lanceolata** | English plantain | FACU |
| **POACEAE - Grass Family** | | |

| | | |
|---|---|---|
| *Aira caryophyllea** | Silver hairgrass | FACU |
| *Avena sp.** | Wild oat | UPL |
| *Briza maxima** | Rattlesnake grass | UPL |
| *Bromus diandrus** | Ripgut brome | UPL |
| *Bromus hordeaceus** | Soft chess | FACU- |
| *Bromus madritensis ssp. rubens** | Red brome | UPL |
| *Cynodon dactylon** | Bermuda grass | FACU |
| *Cynosurus echinatus** | Hedgehog dogtail grass | UPL |
| *Elymus triticoides* | Beardless wildrye | FAC |
| *Festuca perennis** | Italian ryegrass | FAC |
| *Gastridium phleoides** | Nit grass | FACU |
| *Hordeum brachyantherum* | Meadow barley | FACW |
| *Hordeum marinum** | Seaside barley | FAC |
| *Hordeum murinum** | Foxtail barley | NI |
| *Polypogon monspeliensis** | Rabbitsfoot grass | FACW |
| **POLYGONACEAE – Buckwheat Family** | | |
| *Polygonum aviculare** | Yard knotweed | FACW |
| *Rumex acetosella** | Common sheep sorrel | FAC- |
| *Rumex crispus** | Curly dock | FACW- |
| **PRIMULUACEAE – Primrose Family** | | |
| *Anagallis arvensis** | Scarlet pimpernel | UPL |
| **ROSACEAE – Rose Family** | | |
| *Cotoneaster sp.** | Cotoneaster | UPL |
| *Pyracantha sp.** | Firethorn | UPL |
| *Heteromeles arbutifolia* | Toyon | UPL |
| *Photinia sp.** | Photinia | UPL |
| *Rubus armeniacus** | Himalayan blackberry | FACW* |
| *Rubus ursinus* | California blackberry | FACW* |
| **RUBIACEAE – Madder Family** | | |
| *Galium aparine* | Bedstraw | FACU |
| **SALICACEAE – Willow Family** | | |
| *Populus sp.** | Poplar | - |
| *Salix lasiolepis* | Arroyo willow | FACW |
| **SAPINDACEAE – Maple Family** | | |
| *Acer macrophyllum* | Big leaf maple | FAC |
| *Acer negundo* | Boxelder | FACW |
| **SIMAROUBACEAE – Simarouba Family** | | |
| *Ailanthus altissima** | Tree of heaven | FACU |
| **SOLANACEAE – Nightshade Family** | | |
| *Solanum sp.** | Tobacco | FACU/FAC |

| | | |
|---|---|---|
| *Solanum umbelliferum* | Blue witch | UPL |
| **ULMACEAE – Elm Family** | | |
| *Zelkova serrata** | Japanese zelkova | UPL |
| **URTICACEAE – Nettle Family** | | |
| *Urtica dioica ssp. holosericea* | Stinging nettle | FACW |

* Introduced non-native species

## APPENDIX B: PHOTOGRAPHS OF THE PROJECT SITE



Photo 1. Dry manmade golf course pond looking east.



Photo 2. Dry golf course pond looking southwest with riparian habitat on the right and former golf greens in background.



Photo 3. Portion of golf course pond still inundated, likely due to recent rains, looking east.



Photo 4. Oak woodland and woodrat nests in northeastern area of site.

## APPENDIX C: REPORTS PREVIOUSLY PREPARED FOR THE PROJECT SITE

LIVE OAK ASSOCIATES, INC.
an Ecological Consulting Firm

May 2, 2018

Mr. Richard Yee
Robson Homes
2185 The Alameda, Suite 150
San Jose, CA 95126

**SUBJECT: Results of special status plant surveys conducted on the Valley Gardens Golf Course in the City of Scotts Valley, Santa Cruz County, California (PN 2036-01)**

Dear Richard:

On July 19, 2016 and on May 1, 2018, Pamela Peterson, plant and wetland ecologist with Live Oak Associates, Inc. (LOA) conducted focused surveys for rare plants on the Valley Gardens Golf Course property, located at 263 Mt. Hermon Road in Scotts Valley, California. This letter report provides our findings/conclusions from the surveys.

**Introduction**

Based on a review of the California Natural Diversity Database (CNDDB) (CDFW 2016) and based on a prior biological report prepared for the site by WRA in 2006, we determined that there were 16 special status plant species that are known to occur, or to once have occurred, in the site's vicinity that could potentially occur on the Valley Gardens Golf Course property. Information on these species, their legal status, general habitat requirements, and blooming period is provided further on in this report. Seven of these plant species are federally- or state-listed as endangered or threatened, and the remaining nine species occur on CNPS List 1B ("Plants Rare, Threatened, or Endangered in California and elsewhere") or List 2B ("Plants Rare, Threatened, or Endangered in California, but more common elsewhere"). Project impacts to these species may have been considered potentially significant under CEQA.

**Methods**

The vast majority of the site is underlain by Zayante course sand, 5 to 30 percent slopes (NRCS Web Soil Survey 2016), a soil type that is known to support special status plant species in the site's region, however, the majority of the site consists of a developed golf course with manicured turf and ornamental species, therefore, Ms. Peterson focused survey efforts on areas of the site, primarily around the perimeter, where remnant patches of native soils and natural vegetation still occur. These areas were visually surveyed on foot during the July 19, 2016 and

May 1, 2018 surveys in such a way as to achieve 100% visual coverage and to conform to the California Department of Fish and Wildlife's (CDFW) 2009 Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities.

All plant species encountered were identified to the taxonomic level necessary to determine whether it was a special status plant species using The Jepson Manual Second Edition (Baldwin et. al. 2012). A list of plant species encountered during the survey is provided in Appendix A.

**Findings**

***Existing Conditions***. The Valley Gardens Golf Course site supports primarily manicured turf grass greens and trees, including Monterey pines (*Pinus radiata*) and fan palms (*Washingtonia* sp.) that have been planted to divide the greens for the course's nine holes. A large water feature also occurs on the site, surrounded by the golf course. This latter feature supports very little vegetation and the edges appear to be managed to reduce vegetation growth. Other developed areas of the site include structures such as the club house, parking lot and driving ranges that occur in the northwestern portion of the site. No special status plant species would be expected to occur within the managed golf course greens, developed areas or the water feature due to ongoing disturbance and land use. The site is surrounded on all sides by commercial and residential development, however, small, isolated patches of remnant natural habitat still occur on the site along some of the perimeter, such as along the northern boundary, and in the southeastern corner, presumably on the native Zayante soils. These latter habitats would best be described as woodland dominated by coast live oak, with a shrubby understory comprised of species such as Himalaya and California blackberry (*Rubus armeniaca* and *R. ursinus*, respectively), coyote brush (*Baccharis pilularis*), poison oak (*Toxicodendron diversilobum*), and French broom (*Genista monspessulana*). Many ornamental species are also present in these areas including cotoneaster (*Cotoneaster* sp.), firethorn (*Pyracantha* sp.), agapantha (*Agapantha* sp.) and rock rose (*Cistus* sp.). Although for the most part, these remnant woodlands were well-shaded and did not support a lot of herbaceous vegetation, where openings in the canopy of these remnant woodlands did occur, non-native forbs and grasses are present, including but not limited to, English plantain (*Plantago lanceolata*), Italian thistle (*Carduus pycnocephalus*), and ripgut brome (*Bromus diandrus*). Generally the unshaded edges supported dense grasses that were senesced and had been mowed to within one inch of the ground.

***Results of the Focused Surveys***. No special status plant species were encountered during the July survey, and therefore, we were able to rule out occurrence on the site of those plant species that would have been identifiable at this time of year either because they would have been in bloom or because they are a perennial species that would have been observed and identifiable if present. Additionally, based on confirmation of the type and quality of habitat available on the site for special status plants, we were able to rule out the occurrence of other special status plants for which the site provides no, or extremely marginal, habitat and where there are no known occurrences in the immediate project region (i.e. within a mile radius) and/or that have not been observed in the vicinity for many decades.

A report prepared by Olberding Environmental in 2000 for an adjacent property on Collado Drive indicates that one special status plant species was found present on that property, i.e. Ben Lomond spineflower (*Chorizanthe pungens var. pungens*). This plant was found at the edges of

that property in open, sparsely vegetated areas with sandy soils. The shaded and generally densely vegetated woodland habitats of the Valley Gardens site would appear to be extremely marginal for this species and therefore, we considered this species unlikely to occur on the site; none the less, because of the proximity of a population of this species on the Collado site, the timing of the July survey towards the very end of this annual species' blooming season when it may have already bloomed and senesced, and because of the status of this species as federally endangered, we conducted a second survey on May 1, 2018. The May survey was focused around areas of the perimeter of the golf course, primarily along Lockewood and Dunn Lanes, where, during the prior survey, it was observed that there were open areas supporting sandy soils that could have provided potential habitat for this species. This species was not observed during the survey and therefore is considered absent from the site.

**Table 1. Special status plant species that could occur in the project vicinity.**

**PLANTS (adapted from CDFW 2016a, CDFW 2016b and CNPS 2016)**
***Species Listed as Threatened or Endangered under the State and/or Federal Endangered Species Acts***

| Common and scientific names | Status | General habitat description and blooming period | *Occurrence in the study area |
|---|---|---|---|
| Robust spineflower<br>*Chorizanthe robusta* var. *robusta* | FE, CRPR 1B | Habitat: Maritime chaparral, openings of cismontane woodlands, coastal dunes, and coastal scrub in sandy or gravelly soils.<br>Elevation: 3-300 meters.<br>Blooms: Annual herb; April–September. | **Absent.** The July 2016 survey occurred during the blooming season for this species and did not detect this species. Habitats of the site appear to be extremely marginal for this species due to the fact that remnant habitats of the site are generally well-shaded and densely vegetated. |
| Ben Lomond spineflower<br>*Chorizanthe pungens var. hartwegiana* | FE, CRPR 1B.1 | Habitat: Maritime ponderosa pine sandhills.<br>Elevation: 90 - 610 meters.<br>Blooms: Annual herb; April-July. | **Absent.** This species was identified on the Collado Drive Property, adjacent to the southeastern corner of the Valley Gardens site, by Olberding per their 2000 report for that site. The species was observed at sparsely vegetated edges on sandy soils. Remnant potential habitat on the Valley Gardens property was surveyed in May 2018 and this species was not found present. |
| Scotts Valley spineflower<br>*Chorizanthe robusta var. hartwegii* | FE, CRPR 1B.1 | Habitat: Sandy meadows and seeps, valley and foothill grassland on mudstone and Purisima outcrops.<br>Elevation: 230 - 245 meters.<br>Blooms: Annual herb; April – July. | **Absent.** Habitats of the site are not suitable for this species do to absence of mudstone and Purisima outcrops. This species is known from only three occurrences in the site's vicinity, all of which are approximately 2.5 miles northwest of the site. |
| Santa Cruz wallflower<br>*Erysimum teretifolium* | FE, CE, CRPR 1B.1 | Habitat: Inland marine sands within chaparral and lower montane coniferous forest.<br>Elevation: 120 - 610 meters.<br>Blooms: Perennial herb; March - July. | **Absent.** This species was not observed during the July 2016 survey. Although the survey was conducted at the end of the blooming season, foliage of this perennial species would have been observed if present and it was not observed. |

**Table 1. Special status plant species that could occur in the project vicinity.**

**PLANTS (adapted from CDFW 2016a, CDFW 2016b and CNPS 2016)**
***Species Listed as Threatened or Endangered under the State and/or Federal Endangered Species Acts***

| Common and scientific names | Status | General habitat description and blooming period | *Occurrence in the study area |
|---|---|---|---|
| Santa Cruz tarplant<br>*Holocarpha macradenia* | FT, CE, CRPR 1B | Habitat: Coastal prairie, coastal scrub, and valley and foothill grasslands, often on clay or sandy soils.<br>Elevation: 10-220 meters.<br>Blooms: Annual herb; June–October. | **Absent.** This species was not observed during the July 2016 survey, and suitable habitats for this species are absent from the site. |
| San Francisco popcorn-flower<br>*Plagiobothrys diffusus* | CE, CRPR 1B | Habitat: Coastal prairie, valley and foothill grasslands.<br>Elevation: 60-360 meters.<br>Blooms: March–June. | **Absent.** Although the July 2016 survey was not timed during the blooming period to identify this species, suitable habitats for this species, i.e. coastal prairie and grasslands are absent from the site. There are only two known occurrences in the site's vicinity, both which are approximately two miles northwest of the site |
| Scotts Valley polygonum<br>*Polygonum hickmanii* | FE, CE, CRPR 1B.1 | Habitat: Mudstone and sandstone soils within valley and foothill grasslands.<br>Elevation: 210 - 250 meters.<br>Blooms: Annual herb; May – October. | **Absent.** Habitats of the site are not suitable for this species and this species was not observed during the July 2016 survey. |

| Table 1. Special status plant species that could occur in the project vicinity. (Cont'd.)<br>PLANTS (adapted from CDFW 2016a, CDFW 2016b and CNPS 2016)<br>*Other special status plants listed by CNPS* | | | |
|---|---|---|---|
| **Common and scientific names** | **Status** | **General habitat description and blooming period** | ***Occurrence in the study area** |
| Anderson's manzanita<br>*Arctostaphylos andersonii* | CRPR 1B.2 | Habitat: Openings and edges of broad leaved upland forest, chaparral and North Coast coniferous forests.<br>Elevation: 60 – 700 meters.<br>Blooms: Evergreen shrub; November - April. | **Absent.** No manzanita species were observed on the site during the July 2016 survey and this woody perennial shrub would have been identifiable if present even outside of its blooming season. |
| Bonny Doon manzanita<br>*Arctostaphylos silvicola* | CRPR 1B.2 | Habitat: Inland marine sands within chaparral, closed-cone coniferous forest, and lower montane coniferous forest.<br>Elevation: 120-600 meters.<br>Blooms: Evergreen shrub; February - March. | **Absent.** No manzanita species were observed on the site during the July 2016 survey and this woody perennial shrub would have been identifiable if present even outside of its blooming season. |
| Ben Lomond buckwheat<br>*Eriogonum nudum var. decurrens* | CRPR 1B.1 | Habitat: On sandy soils within chaparral, cismontane woodland, and Ponderosa pine sandhills.<br>Elevation: 50 - 800 meters.<br>Blooms: Perennial herb; June - October. | **Absent.** This species would have been identifiable during the July 2016 survey if present and it was not observed. |
| Kellogg's horkelia<br>*Horkelia cuneata var. sericea* | CRPR 1B.1 | Habitat: Sandy or gravelly openings in closed cone coniferous forest, maritime chaparral, and coastal scrub.<br>Elevation: 10-200 meters.<br>Blooms: Perennial herb; April - September. | **Absent.** This perennial species was not observed during the July 2016 survey and habitats of the site are not suitable for this species. |
| Marsh microseris<br>*Microseris paludosa* | CRPR 1B.2 | Habitat: Closed cone coniferous forest, cismontane woodland, coastal scrub, and valley and foothill grassland.<br>Elevation: 5-300 meters.<br>Blooms: April - June. | **Absent.** Although potentially suitable habitat is present on the site and the July 2016 survey was not timed to coincide with the blooming season for this species, this species is a perennial herb and even if not in flower, would have been identifiable if present and it was not observed. The closest known occurrence in the site's vicinity is approximate three miles southwest of the site. |
| Santa Cruz Mountains beardtongue<br>*Penstemon rattanii var. kleei* | CRPR 1B.2 | Habitat: Chaparral, lower montane coniferous forest and North Coast coniferous forest.<br>Elevation: 400 - 1100 meters.<br>Blooms: Perennial; May – June. | **Absent.** Although the 2016 survey was conducted outside the blooming season for this species, habitats of the site are marginal for this species and this perennial would have been identified if present and it was not observed. |

| Table 1. Special status plant species that could occur in the project vicinity. (Cont'd.)<br>PLANTS (adapted from CDFW 2016a, CDFW 2016b and CNPS 2016)<br>*Other special status plants listed by CNPS* | | | |
|---|---|---|---|
| **Common and scientific names** | **Status** | **General habitat description and blooming period** | ***Occurrence in the study area** |
| Choris' popcornflower<br>*Plagiobothrys chorisianus var. chorisianus* | CRPR 1B.2 | Habitat; Mesic soils within chaparral, coastal prairie, and coastal scrub.<br>Elevation: 15 - 100 meters.<br>Blooms: Annual herb; March - June. | **Absent.** Suitable habitat is absent from the site for this species. |
| Chaparral ragwort<br>*Senecio aphanactis* | CRPR 2B.2 | Habitat: Drying alkaline flats within chaparral, cismontane woodland and coastal scrub.<br>Elevation: 20 - 855 meters.<br>Blooms: Annual herb; January – April. | **Absent.** Suitable habitat is absent from the site for this species. The only known occurrence in the site's region is located more than three miles away on Bonny Doon Ecological Reserve. |
| Santa Cruz clover<br>*Trifolium buckwestiorum* | CRPR 1B.1 | Habitat: Broadleaved upland forest, cismontane woodland and coastal prairie margins.<br>Elevation: 105-610 meters.<br>Blooms: Annual herb; April – October. | **Absent.** Although marginal habitat occurs on the site, this species was not observed during the July 2016 survey when it would have been in bloom and identifiable if present. |

## Conclusions/Recommendations

Based on the focused July 2016 and May 2018 surveys, we have been able to rule out the occurrence of all special status plant species having potential to occur on the Valley Gardens site, and therefore, there would be not impacts to special status plants as a result of the project.

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Please feel free to contact me if you have any questions or concerns regarding our findings.

Sincerely,



Pamela E. Peterson
Senior Project Manager
Plant and Wetland Ecologist
408-281-5884 (office)
408-833-5391 (mobile)

## APPENDIX A: VASCULAR PLANTS OF THE STUDY AREA

The plants species listed below were observed on the Valley Gardens Golf Course property during field surveys conducted by Live Oak Associates, Inc. on July 19, 2016 and May 1, 2018. The U.S. Fish and Wildlife Service wetland indicator status of each plant has been shown following its common name.

OBL - Obligate
FACW - Facultative Wetland
FAC - Facultative
FACU - Facultative Upland
UPL - Upland
+/- - Higher/lower end of category
NR - No review
NA - No agreement
NI - No investigation

| | | |
|---|---|---|
| **ALSTROEMERIACEAE – Peruvian Lily Family** | | |
| *Alstroemeria sp.** | Peruvian lily | - |
| **AMARYLLIDACEAE – Amaryllis Family** | | |
| *Agapantha sp. ** | Agapantha | - |
| **ANACARDIACEAE – Sumac Family** | | |
| *Toxicodendron diversilobum* | Poison oak | UPL |
| **APIACEAE – Carrot Family** | | |
| *Conium maculatum** | Poison hemlock | FACW |
| *Foeniculum vulgare** | Sweet fennel | FACU |
| *Torilis arvensis** | Hedge parsley | UPL |
| **APOCYNACEAE – Dogbane Family** | | |
| *Trachelospermum jasminoides** | Star jasmine | UPL |
| **ARALIACEAE – Ginseng Family** | | |
| *Hedera helix** | English ivy | UPL |
| **ARECACEAE – Palm Family** | | |
| *Washingtonia filifera* | Fan Palm | UPL |
| **ASTERACEAE - Sunflower Family** | | |
| *Artemisia douglasiana* | Mugwort | OBL |
| *Baccharis pilularis* | Coyote brush | UPL |
| *Carduus pycnocephalus** | Italian thistle | UPL |
| *Centaurea solstitialis** | Yellow star thistle | UPL |
| *Gnaphalium sp.* | Cudweed | - |
| *Helianthus sp.* | Sunflower | - |
| *Helichrysum luteoalbum** | Weedy cudweed | UPL |
| *Helminthotheca echioides** | Bristly ox-tongue | FAC* |
| *Hypochaeris glabra** | Smooth cat's ear | UPL |
| *Lactuca serriola** | Prickly lettuce | FAC |

| | | |
|---|---|---|
| *Silybum marianum** | Milkthistle | UPL |
| *Sonchus arvensis** | Field sowthistle | FACU |
| **BORAGINACEAE – Borage Family** | | |
| *Eriodyction californicum* | Yerba Santa | UPL |
| **BRASSICACEAE – Mustard Family** | | |
| *Hirschfeldia incana** | Summer mustard | UPL |
| *Brassica nigra** | Black mustard | UPL |
| *Lepidium nitidum* | Shining peppergrass | FAC |
| *Raphanus sativa** | Wild radish | UPL |
| **BUDDLEJACEAE – Butterfly Bush Family** | | |
| *Buddleja davidii** | Butterfly bush | UPL |
| **CARYOPHYLLACEAE – Pink Family** | | |
| *Spergularia sp.** | Sand spurrey | FAC/FACW |
| **CISTACEAE – Rock Rose Family** | | |
| *Cistus sp.** | Rock Rose | UPL |
| **CONVOLVULACEAE – Morning-Glory Family** | | |
| *Calystegia occidentalis* | Western morning glory | UPL |
| *Convolvulus arvensis** | Field Bindweed | UPL |
| **CUPRESSACEAE – Cypress Family** | | |
| *Cupressus macrocarpa* | Monterey cypress | UPL |
| *Cupressus sempervirens** | Italian cypress | UPL |
| *Sequoia sempervirens* | Coast redwood | UPL |
| **ERICACEAE – Heath Family** | | |
| *Arbutus menziesii* | Pacific madrone | UPL |
| **EUPHORBIACEAE – Spurge Family** | | |
| *Euphorbia crenulata* | Chinese caps | UPL |
| **FABACEAE – Legume Family** | | |
| *Genista monspessulana** | French broom | UPL |
| *Lotus corniculatus** | Bird's foot trefoil | FAC |
| *Mimosa sp.** | Mimosa | UPL |
| *Medicago polymorpha** | Burclover | UPL |
| *Trifolium sp.** | Clover | - |
| *Trifolium hirtum** | Rose clover | UPL |
| *Vicia sativa** | Vetch | UPL |
| **FAGACEAE – Oak Family** | | |
| *Quercus agrifolia* | Coast live oak | UPL |
| **GERANIACEAE – Geranium Family** | | |
| *Erodium sp.** | Filaree | UPL |
| *Geranium dissectum** | Dissected geranium | UPL |
| **LAMIACEAE – Mint Family** | | |
| *Rosmarinus officinalis** | Rosemary | UPL |

| | | |
|---|---|---|
| **MALVACEAE – Mallow Family** | | |
| *Hibiscus sp.** | Hibiscus | UPL |
| *Malva parviflora** | Mallow | UPL |
| **MYRTACEAE – Myrtle Family** | | |
| *Acca sellowiana** | Pineapple guava | UPL |
| *Calystemon sp.** | Bottlebrush shrub | UPL |
| **OLEACEAE – Olive Family** | | |
| *Ligustrum sp.** | Privet | UPL |
| *Olea europaea** | Olive | UPL |
| **ONAGRACEAE – Evening Primrose Family** | | |
| *Epilobium brachycarpum* | Annual fireweed | UPL |
| *Epilobium ciliatum* | Fringed willowherb | FACW |
| **OXALIDEACEAE – Wood Sorrel Family** | | |
| *Oxalis oregana* | Oregon wood sorrel | FACU |
| **PAPAVERACEAE – Poppy Family** | | |
| *Eschscholzia californica* | California poppy | UPL |
| **PINACEAE – Pine Family** | | |
| *Pinus radiata* | Monterey pine | UPL |
| *Tsuga sp.* | Hemlock | UPL |
| **PLANTAGINACEAE – Plantain Family** | | |
| *Plantago lanceolata** | English plantain | FACU |
| **POACEAE - Grass Family** | | |
| *Aira caryophyllea* | Silver hairgrass | FACU |
| *Avena sp.** | Wild oat | UPL |
| *Briza maxima** | Rattlesnake grass | UPL |
| *Bromus diandrus** | Ripgut brome | UPL |
| *Bromus hordeaceus** | Soft chess | FACU- |
| *Bromus madritensis ssp. rubens** | Red brome | UPL |
| *Cynodon dactylon** | Bermuda grass | FACU |
| *Cynosurus echinatus** | Hedgehog dogtail grass | UPL |
| *Elymus triticoides* | Beardless wildrye | FAC |
| *Festuca perennis** | Italian ryegrass | FAC |
| *Gastridium phleoides** | Nit grass | FACU |
| *Hordeum brachyantherum* | Meadow barley | FACW |
| *Hordeum marinum** | Seaside barley | FAC |
| *Hordeum murinum** | Foxtail barley | NI |
| *Polypogon monspeliensis** | Rabbitsfoot grass | FACW |
| **POLYGONACEAE – Buckwheat Family** | | |
| *Polygonum aviculare** | Yard knotweed | FACW |
| *Rumex acetosella** | Common sheep sorrel | FAC- |
| *Rumex crispus** | Curly dock | FACW- |
| **PRIMULUACEAE – Primrose Family** | | |

Richard A. Arnold, Ph.D.
President

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6 August 2004

Sandy Woodruff
Valley Gardens Golf Course
263 Mount Hermon Road
Scotts Valley, CA 95066

RE: Valley Gardens Golf Course in Scotts Valley, CA
Report on Mount Hermon June Beetle and Other Sandhill Species

Dear Sandy:

This letter reports on the findings of my three-night, presence-absence survey for the endangered Mount Hermon June beetle (MHJB) at the Valley Gardens Golf Course. I can briefly summarize the findings of my survey by stating that low numbers of the MHJB were observed on about 50-60% of the course, while no beetles were observed on about 40-50% of the course. Also, no suitable habitat for the endangered Zayante Band Wing grasshopper (ZBWG) was observed at the course. Surveys for five state or federally-listed endangered plant species did not yield any observations of these taxa. The remainder of this letter provides pertinent background information on the aforementioned insects and plants and describes my survey methods, findings, and recommendations in more detail.

## PROJECT SITE

The Valley Gardens Golf Course consists of six parcels that collectively measure approximately 30.6 acres in size. According to the records at Santa Cruz County, assessor parcel numbers (APNs) for the six parcels are 021-221-02, 021-011-34, 021-231-02, -04, -07, and -08. These six parcels range in size from 1.37 to 18.39 acres.

The course features nine holes, a putting green, a driving cage, clubhouse, two lakes, and an asphalt parking lot. According to the county's soil maps, native soils at the site are Zayante sands. Although no native plant communities occur at the course, a few native plants still grow there especially along the southeastern, southern, and southwestern borders. Perhaps the most notable native plant is Ponderosa pine (*Pinus ponderosa*). A few Ponderosa pines grow on course at holes 3, 4, and 5 and on neighboring properties near the borders of course. Other ornamental pine trees grow elsewhere on the course.

The attached aerial photograph illustrates the course and surrounding land uses. It is situated between the northwestern end of the business district along Mount Hermon Road, the Whispering Pines residential community, and a mobile home park.

## BACKGROUND INFORMATION

The Zayante Sandhills support a sand parkland vegetation community that is characterized by a mosaic mixture of Ponderosa pine, chaparral, and sparsely-vegetated areas of grasses, forbs and subshrubs, several of which are indigenous to the Zayante sandhills. Two insects and five plants of the Zayante Sandhills are considered special-status species at the federal or state levels. The insects are the Mount Hermon June beetle (*Polyphylla barbata* ) and the Zayante Band Wing grasshopper (*Trimerotropis infantilis*). Both insects were recognized by the U.S. Fish & Wildlife Service (USFWS) as endangered species in 1997, pursuant to provisions of the federal Endangered Species Act of 1973 (FESA).

Three plants, Santa Cruz Wallflower (*Erysimum teretifolium*), Santa Cruz Cypress (*Cupressus abramsiana*), and Ben Lomond Spineflower (*Chorizanthe pungens* var. *hartwegiana*), are recognized as endangered species by the USFWS. The wallflower and cypress are also recognized as endangered at the state level by the California Dept. of Fish & Game (CDFG). Two other plants, Silverleaf Manzanita (*Arctostaphylos silvicola*) and Ben Lomond Buckwheat (*Eriogonum nudum* var. *decurrens*), although not officially recognized by CDFG as endangered, are treated as endangered species by the state during the CEQA review process. This is because these plants are recognized as rare, threatened, or endangered in California and elsewhere by the California Native Plant Society (list 1B).

## SURVEY METHODS

**Mount Hermon June Beetle.**

Males of MHJB are attracted to black lights, so black light traps operated between about 8:00 and 10:30 pm is the standard procedure used to determine presence-absence of MHJB at new survey locations. The USFWS requires no beetle observations in a minimum of three nights, spaced throughout the beetle's flight season and at a particular location, to demonstrate absence of the MHJB. My surveys at the golf course were performed on the evenings of, June 1, 16, and 29, 2004. Elsewhere in the greater Scotts Valley area, my other surveys indicated that the first MHJBs in 2004 were seen during the last week of May, when temperatures warmed up after a cool period.

On each survey night, my assistant, Dr. Robert Jensen, and I placed as many as 24 black light traps in various portions of the golf course. All traps were placed at ground level in an effort to attract any MHJBs that were on-site, but to minimize the broadcast of light that could have attracted beetles from adjacent parcels. The attached aerial photograph illustrates the locations of our 24 trap locations at the golf course. Traps were placed on the greens and fairways of all nine golf holes. If MHJBs were found in a

particular trap during the first or second nights of my survey, I removed that trap from that location on subsequent nights of this survey.

On each survey night I also placed two traps at the nearby Mount Hermon cross, located above Graham Hill Road. This is a known location for the MHJB that supports prime sand parkland habitat, so it was used as a control for my surveys at the golf course.

**Zayante Band Wing Grasshopper.**

Within the sand parkland plant community of the Zayante Sandhills, ZBWGs are most commonly observed in association with sunlit barren or sparsely-vegetated areas of loose sand deposits. Adults are usually active from about August through early November. The golf course was surveyed in June 2004 to determine if any areas of suitable habitat for the ZBWG occurred there. In addition to searching for suitable habitat conditions for the grasshopper, I also looked for its known food plants, in particular *Lupinus albifrons* and *Heterotheca sessiliflora*.

**Endangered and Rare Plants.**

Surveys for the five rare and endangered plants were conducted during June and July 2004. All portions of the golf course were inspected to determine the presence or absence of these plant taxa.

## SURVEY RESULTS

A total of 26 MHJB adults were observed at the golf course during the three survey nights in June 2004. The attached aerial photograph summarizes the findings of my presence-absence survey. Eight of the 24 trap locations yielded no MHJBs on the three survey nights, while 16 traps yielded from 1 to 4 beetles. Traps where MHJBs were not captured were farthest from on-site or off-site Ponderosa pines, whereas those traps where MHJBs were captured were located closest to the on-site or neighboring Ponderosa pine trees.

In contrast, the two control traps operated at the nearby Mt. Hermon cross yielded a total of 107 MHJBs on the same three survey nights. The low numbers of MHJBs observed at the golf course indicates that overall habitat quality at the golf course is poor compared to the prime sand parkland habitat at my control site. The few MHJBs observed at the golf course are probably associated with the remaining Ponderosa pines.

Due to the absence of the sand parkland plant community at the golf course, no suitable habitat for the ZBWG was observed. All fairways and greens are vegetated with a dense cover of turf grass. The only areas of open, loose sand are the sand traps, but these areas lack the food plants of the ZBWG. Also, human activity (golfers and maintenance) at the course occurs throughout the year and from dawn to dusk on a daily basis. At night, the greens and fairways are regularly watered using a sprinkler system. For these reasons, I do not anticipate that the grasshopper occurs at the golf course.

None of the five rare or endangered plants were observed at the golf course. Like the ZBWG, the wallflower, buckwheat and spineflower like open sunlit areas with sparse vegetative cover. Due to the extensive cover of turf grass only the sand traps at the golf course offer such conditions, but the traps are regularly raked and maintained in a manner that precludes the establishment of these plants. No individuals of the cypress or manzanita were observed during surveys of the entire golf course. For these reasons, I conclude that all five of these special-status plants do not occur there.

## CONCLUSIONS AND RECOMMENDATIONS

Of the two endangered insects and five special-status plants known from the Zayante Sandhills, only the MHJB was found to occur at the golf course. The beetle occurs at low numbers in those portions of the course where Ponderosa pine grows either on-site or off-site but near the property boundary. Future development of the site will likely require a permit for incidental take of the beetle from USFWS to comply with the FESA. Such a permit requires the preparation of a habitat conservation plan and on-site or off-site mitigation measures to adequately minimize potential direct and indirect impacts as well as protection of suitable habitat in perpetuity. Since no beetles were observed on about 40-50% of the course and beetle numbers on the remaining 50-60% of the course were quite low, I anticipate that the mitigation requirements should be less than if the course supported prime sand parkland habitat.

I recommend that you contact Roger Root, a biologist for the USFWS's Ventura office (805-644-1766) to discuss these issues further. Should you decide to obtain the incidental take permit, I will be happy to assist you. Please feel free to contact me if you have questions about my survey findings or need further assistance.

Sincerely,

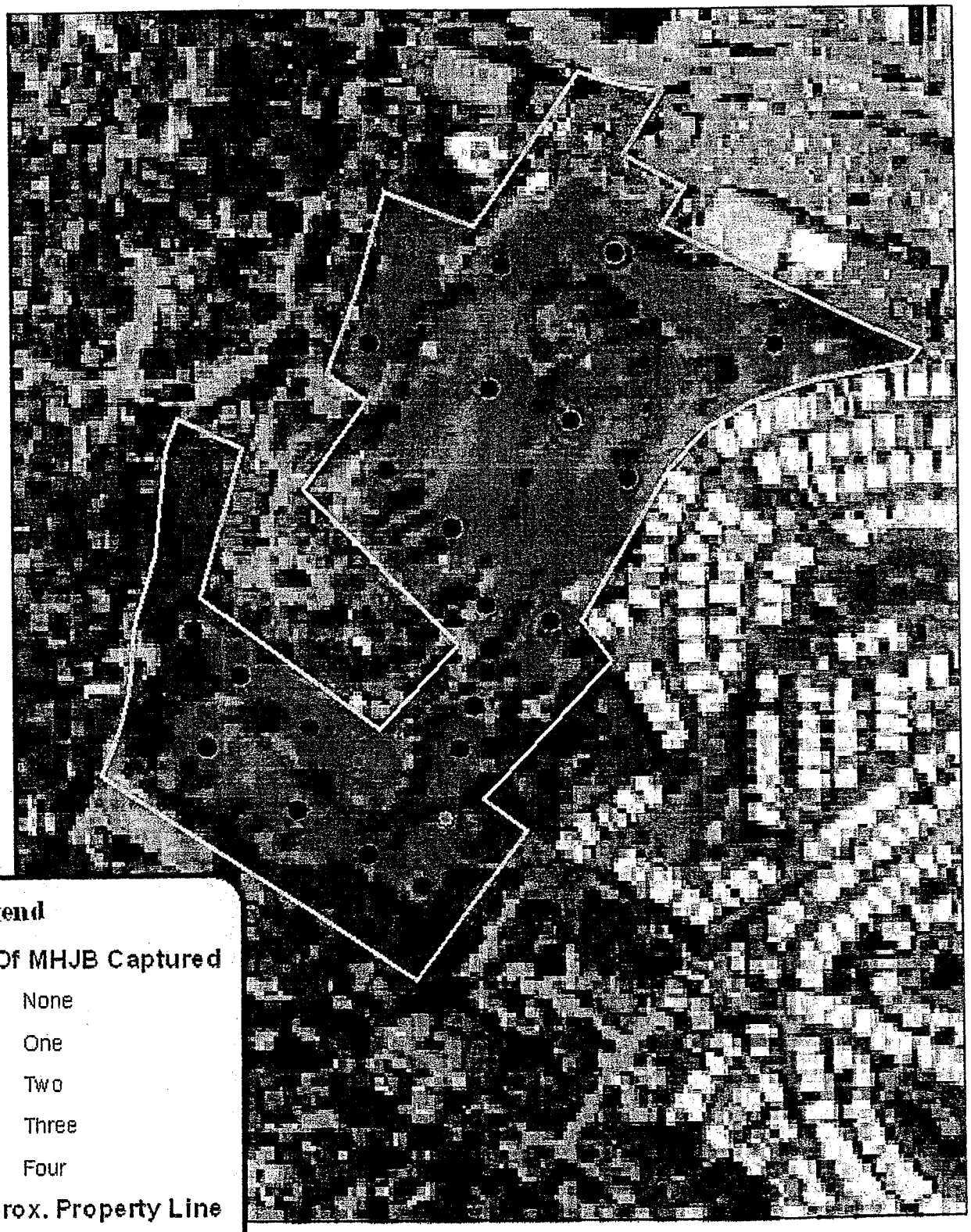
Richard A. Arnold

Richard A. Arnold, Ph.D.
President

Attachment: aerial photo

Cc: Foster A. Markolf, Attorney

# Valley Gardens Golf Course
# MHJB Survey - June 2004




Prepared July 12, 2004
Entomological Consulting Services, Ltd.

Richard A. Arnold, Ph.D.
President

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5 August 2016

Mr. Vince McCarrie, Director of Acquisitions
Robson Homes
2185 The Alameda, Suite 150
San Jose, CA 95126

RE: Valley Gardens Golf Course in Scotts Valley, CA
Presence-Absence Survey Report on the Endangered Mount Hermon June Beetle

Dear Vince:

This letter reports on the findings of my three-night, presence-absence survey for the endangered Mount Hermon June beetle (MHJB) at the Valley Gardens Golf Course. I can briefly summarize the findings of my survey by stating:

a) of the 37 traps placed at the golf course only 15 yielded MHJBs;
b) 28 (44%) of the 63 MHJBs observed were found at a single trap location; and
c) low numbers of the MHJB were observed on about 38% of the property, while no beetles were observed on about 62%.

These results are nearly identical to those from my MHJB survey conducted in 2004 at this golf course. The remainder of this letter provides pertinent background information on the aforementioned beetle and describes my survey methods and findings in more detail.

## PROJECT SITE

Figure 1 is an aerial photograph that illustrates the course and land uses at immediately surrounding properties. The golf course is situated at the northwestern end of the Scotts Valley business district along Mount Hermon Road. It is surrounded by the Whispering Pines residential neighborhood, a mobile home park, and commercial and office development along Mount Hermon Road.

The Valley Gardens Golf Course consists of six parcels that collectively measure approximately 30.6 acres in size. According to records at Santa Cruz County, assessor parcel numbers (APNs) for the six parcels are 021-221-02, 021-011-34, 021-231-02, -04, -07, and -08. These six parcels range in size from 1.37 to 18.39 acres.

The golf course opened in 1971 and features nine holes, a putting green, a driving cage, clubhouse, two lakes, and an asphalt parking lot (Figure 1). A caretaker's residence, garage, and storage sheds are accessible from Lockewood Lane. Some grading and fill occurred during construction of the golf course.

According to the county's soil maps (Bowman and Estrada 1980. Soil Survey of Santa Cruz County, California. US Dept. of Agriculture, Soil Conservation Service. 148 pp. & maps), native soils at the site are Zayante sands. Although no native plant communities occur at the course, a few native plants still grow there especially along the southeastern, southern, and southwestern borders surrounding holes 3, 4, and 5 (Figure 1). Perhaps the most notable native plant is Ponderosa pine (*Pinus ponderosa*), which is an indicator species for the native Zayante sandhill plant communities that probably once grew at the site.

## BACKGROUND INFORMATION

The MHJB is known scientifically as *Polyphylla barbata* (Coleoptera: Scarabaeidae) and was described in 1938 from specimens collected on Mount Hermon in Santa Cruz County. Of the approximate 35 species of *Polyphylla* that occur in North America, the MHJB has one of the most restricted geographic ranges. It is found in association with Zayante sandy soils in the Felton-Scotts Valley-Mt. Hermon-Ben Lomond area of Santa Cruz County, CA. More recently, it has also been found at Bonny Doon and some other outlying areas from this core area of Zayante sandhills. Due to the beetle's limited geographic range and the historical and anticipated loss of habitat within its limited range, the U.S. Fish & Wildlife Service (USFWS) recognized the MHJB as an endangered species in 1997, pursuant to provisions of the federal Endangered Species Act of 1973 (FESA).

The Zayante sandhills support several indigenous plant communities that are preferred by the MHJB, including Silverleaf Manzanita Chaparral with Ponderosa pine, Sand Chaparral, mixed Silverleaf Manzanita Chaparral, Ponderosa pine forest, dense sand parkland and open sand parkland. These plant communities often intergrade to become a mosaic mixture of Ponderosa pine, chaparral, and sparsely-vegetated areas of grasses, forbs and subshrubs that is referred to as the sand parkland plant community.

In most years, adults of the MHJB are active on warm evenings from about mid-May through mid-August. Males fly each evening for approximately one hour after dusk in search of females, which are flightless and remain on the soil. Observations of flying males suggest that most flight activity occurs within a few feet above ground.

Although specific life history information for the MHJB is unknown, information from closely related species suggests that most of the beetle's life cycle is spent as a larva or grub that lives below ground and is a root feeder, presumably on one or more of the plants that are indigenous to the native plant communities. However, both adult and larval MHJB have been found in disturbed areas with non-native vegetation, which suggests they may be generalist root feeders. Larval development is believed to require at least one year, and perhaps as long as two or three years.

## SURVEY METHODS

Like many nocturnally-active insects, males of the MHJB are attracted to black lights. Thus, black light traps operated between about 8:15 and 10:45 pm is the standard survey method used to determine presence or absence of this beetle. The USFWS requires no beetle observations during a minimum of three nights, spaced throughout the beetle's flight season to demonstrate absence of the MHJB. My surveys at the golf course were performed on the evenings of June 21 and 29, plus July 13, 2016.

My assistant, Dr. Robert Jensen, and I placed 37 black light traps in all portions of the golf course. All traps were placed at ground level in an effort to attract any MHJBs that were on-site, but to minimize the broadcast of light that could have attracted beetles from adjacent parcels. To further minimize the broadcast of light, 12-watt bulbs were used in the traps.

Figure 1 illustrates the 37 trap locations at the golf course. Positional coordinates were obtained for all traps using a Trimble GPS unit. Traps were placed on the greens and fairways of all nine golf holes, as well as at the periphery of the asphalt parking lot and in an overgrown portion of the site along Lockewood Lane. If MHJBs were found in a particular trap during the first or second nights of my survey, I removed thet trap from that location on subsequent nights of this survey.

On each survey night I also placed two traps at the nearby Mount Hermon Cross, located above Graham Hill Road. This is a known location for the MHJB that supports prime sand parkland habitat, so it was used as a control for my surveys at the golf course.

## SURVEY RESULTS

A total of 63 MHJB adults were observed at the golf course during the three-night survey. Twenty-two (22) of the 37 trap locations yielded no MHJBs, while 15 traps yielded 63 MHJBs. One to 5 MJHBs were observed in 14 of these traps, while one trap location in the southeastern portion of the course yielded 28 MHJBs or 44% of the total catch. Figure 1 illustrates the findings of my 2016 presence-absence survey, which are very similar to the results of my 2004 survey as illustrated in Figure 2.

In contrast, the two control traps operated at the nearby Mt. Hermon cross yielded a total of 192 MHJBs on the same three survey nights. The lower numbers of MHJBs observed at the golf course indicates that overall habitat quality at the golf course is degraded compared to the prime sand parkland habitat at my control site.

Results of this survey indicate that MHJB occurs in two portions of the golf course, a northern polygon measuring 3.2 acres (139,430 $ft.^2$), and a larger, southern polygon measuring 8.47 acres (369,042 $ft.^2$). The cross-hatching in Figure 1 demarcates the portions of golf course

(boundaries in yellow) that are occupied by the MHJB and those portions that are unoccupied (no cross-hatching). The amount of occupied habitat is 11.67 acres (508,472 ft.$^2$), while the amount of unoccupied habitat is 18.88 acres.

## CONCLUSIONS AND RECOMMENDATIONS

A presence-absence survey for the MHJB was conducted at the golf course in 2004 (Figure 2). Results of the 2016 survey (Figure 1) demonstrate that beetle abundance and occupied portions of the golf course have not significantly changed during this intervening period. MHJB still occurs at low numbers in occupied portions of the course. In 2004 a total of 26 beetles were observed, while 63 were observed during 2016. My 2004 survey had 24 trap locations, whereas in 2016 traps were placed at 37 locations. I attribute the increase in numbers of beetles observed during 2016 to the use of more traps rather than an actual increase in population numbers. One trap, located in the southeastern portion of the golf course, yielded 44% of the MHJBs observed during my 2016 surveys.

Future development of the golf course will likely require a permit for incidental take of the beetle from the USFWS to comply with the FESA. Such a permit requires the preparation of a habitat conservation plan, which describes the on-site and/or off-site conservation and mitigation measures to adequately minimize potential direct and indirect impacts as well as protection of suitable conserved habitat in perpetuity. Conservation credits for the MHJB are available for purchase from the Zayante Sandhills Conservation Bank. Although I helped to establish this USFWS-approved conservation bank, I have no financial interest in it. I suggest that you contact Paul Burrowes of the Zayante Sandhills Conservation Bank at 408-497-3989 to discuss pricing for the MHJB conservation credits. Lastly, I recommend that you contact Chad Mitcham, a biologist for the USFWS's Watsonville office (831-768-7794) to discuss the permitting issues.

Should you decide to obtain the incidental take permit, I will be happy to assist you as I have previously prepared and submitted application packages for several clients in the Zayante sandhills region. Please feel free to contact me if you need further assistance.

Sincerely,

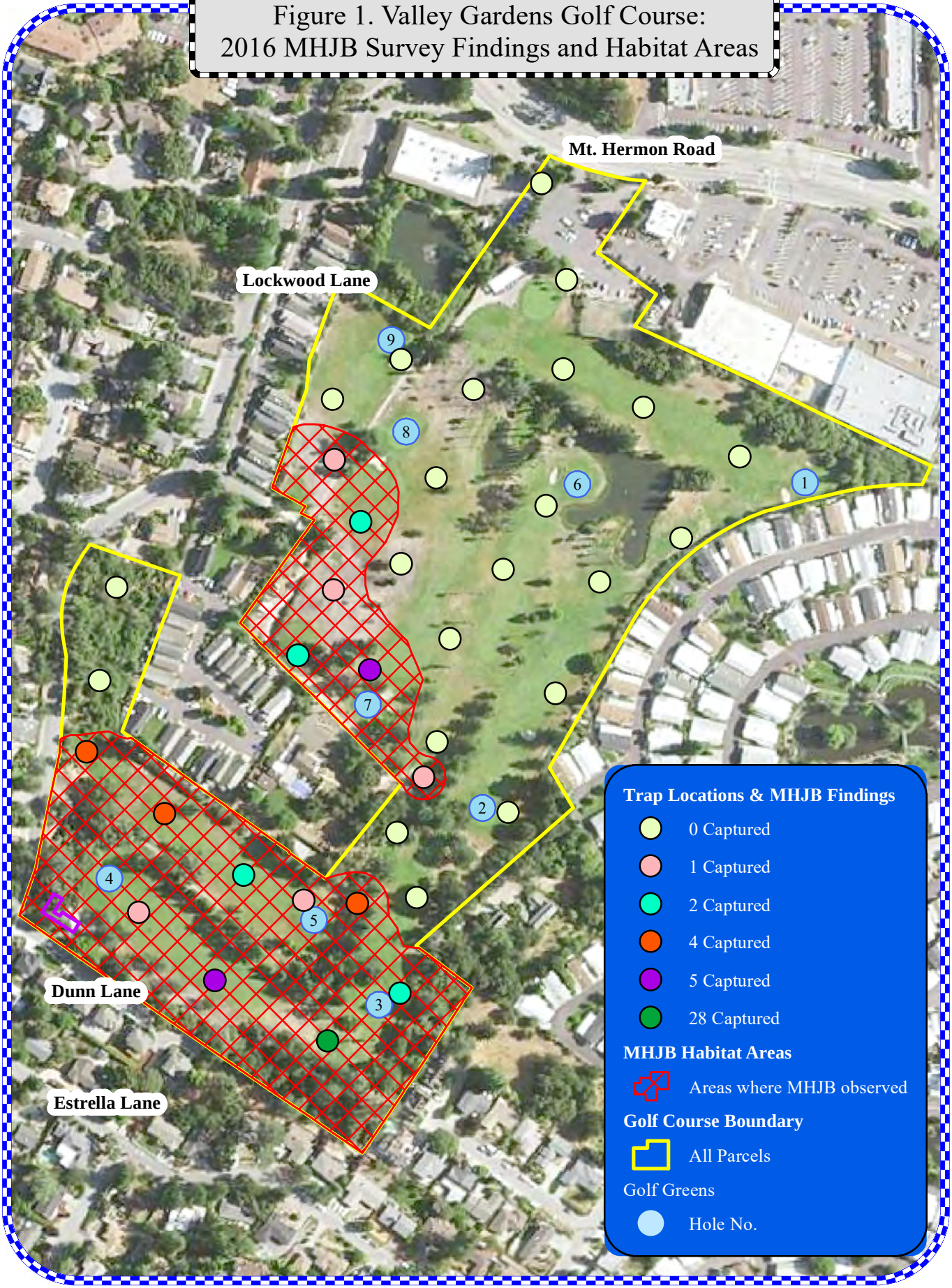
Richard A. Arnold

Richard A. Arnold, Ph.D.
President

Attachment: figures

Cc: Sandy Woodruff

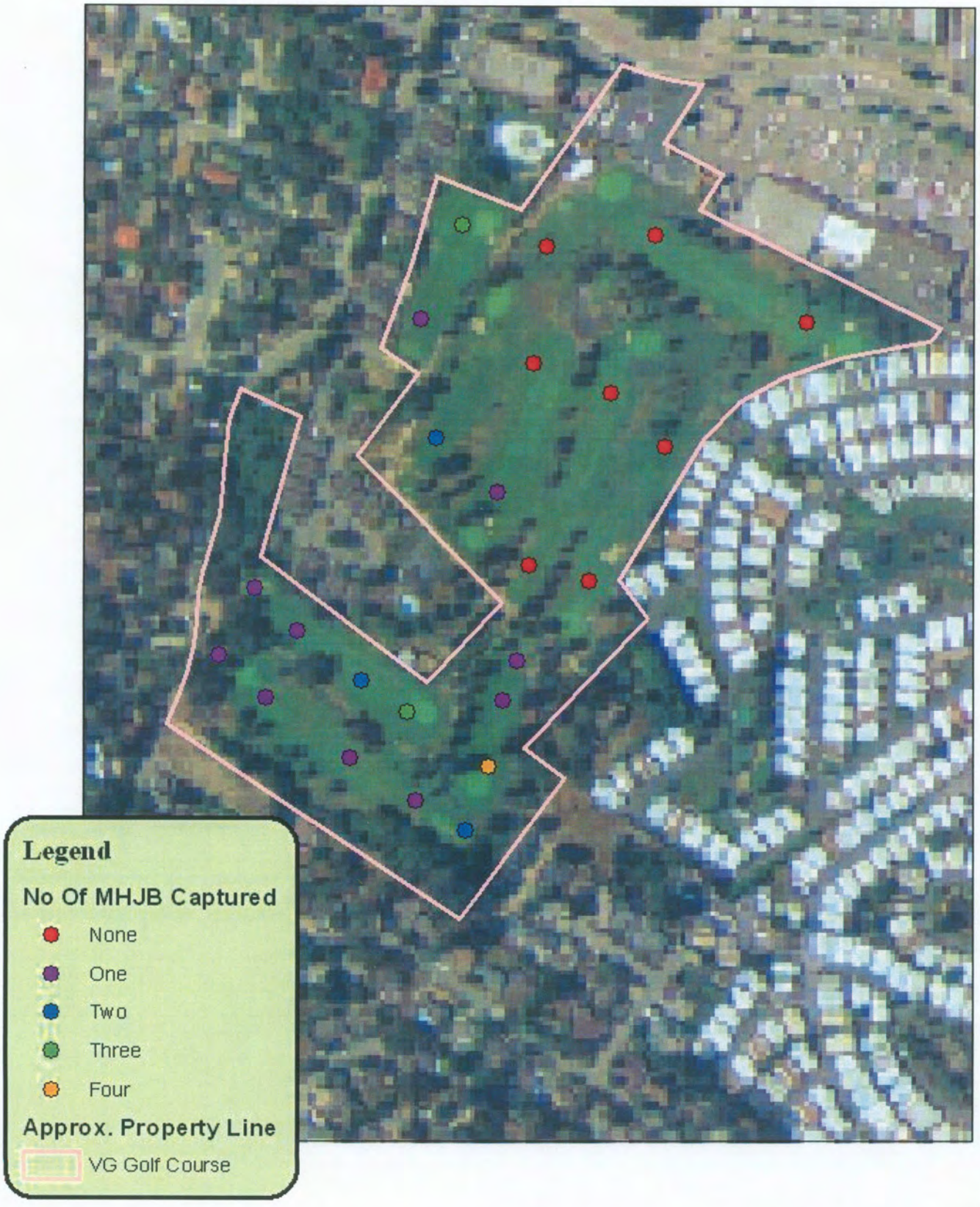
# Figure 1. Valley Gardens Golf Course: 2016 MHJB Survey Findings and Habitat Areas




August 5, 2016
Entomological Consulting Services, Ltd.

Figure 2.

Valley Gardens Golf Course
MHJB Survey - June 2004



DEPARTMENT OF THE ARMY
SAN FRANCISCO DISTRICT, U.S. ARMY CORPS OF ENGINEERS
1455 MARKET STREET, 16TH FLOOR
SAN FRANCISCO, CALIFORNIA 94103-1398

NOV 05 2018

Regulatory Division

Subject: File Number 2018-00355S

Ms. Pamela Peterson
Live Oak Associates, Inc.
6840 Via Del Oro, Suite 220
San Jose, California 95119

Dear Ms. Peterson:

This correspondence is in response to your submittal of July 20, 2018, on behalf of Mr. Richard Yee of Robson Homes, requesting an approved jurisdictional determination of the extent of waters of the United States occurring on the approximately 31-acre Valley Gardens Golf Course, located at 263 Mr. Hermon Road in the City of Scotts Valley, Santa Cruz County, California (Lat: 37.044794°, Long: -122.033983°).

All proposed discharges of dredged or fill material occurring below the plane of ordinary high water in non-tidal waters of the United States; or below the high tide line in tidal waters of the United States; or within the lateral extent of wetlands adjacent to these waters, typically require Department of the Army authorization and the issuance of a permit under Section 404 of the Clean Water Act of 1972, as amended, 33 U.S.C. § 1344 *et seq*.

The enclosed delineation map further depicts the extent and location of excluded waters within the boundary area of the site that are **not** subject to U.S. Army Corps of Engineers' regulatory authority under Section 404 of the Clean Water Act. These particular water bodies meet the definition of excluded waters identified in 33 C.F.R. § 328.3(b)(4)(ii). This approved jurisdictional determination is based on the current conditions of the site, as verified during a field investigation of September 2, 2018, a review of available digital photographic imagery, and a review of other data included in your submittal. This approved jurisdictional determination will expire in five years from the date of this letter unless new information or a change field conditions warrants a revision to the delineation map prior to the expiration date. The basis for this approved jurisdictional determination is explained in the enclosed *Interim Approved Jurisdictional Determination Form.*

The current absence of jurisdictional waters of the United States within the boundary area of the site does not obviate any requirement to obtain other Federal, State, or local approvals necessitated by law. Any impacts to federally-listed threatened or endangered species and/or designated critical habitat may be subject to regulation by the U.S. Fish and Wildlife Service and/or the National Marine Fisheries Service under Section 10 of the Endangered Species Act of 1973, as amended, 16 U.S.C. § 1531 *et seq*. If "waters of the state" are potentially present, the site may be subject to regulation by the California Regional Water Quality Control Board,

Central Coast Region, under the Porter-Cologne Water Quality Control Act, as amended, California Water Code § 1300 *et seq*. You are, therefore, urged to contact these agencies directly to determine the need for other authorizations or permits.

You are advised that the approved jurisdictional determination may be appealed through the U.S. Army Corps of Engineers' *Administrative Appeal Process*, as described in 33 C.F.R. pt. 331 (65 Fed. Reg. 16,486; Mar. 28, 2000) and outlined in the enclosed flowchart and *Notification of Administrative Appeal Options, Process, and Request for Appeal* (NAO-RFA) Form. If you do not intend to accept the approved jurisdictional determination, you may elect to provide new information to this office for reconsideration of this decision. If you do not provide new information to this office, you may elect to submit a completed NAO-RFA Form to the Division Engineer to initiate the appeal process; the completed NAO-RFA Form must be submitted directly to the Appeal Review Officer at the address specified on the NAO-RFA Form. You will relinquish all rights to a review or an appeal unless this office or the Division Engineer receives new information or a completed NAO-RFA Form within 60 days of the date on the NAO-RFA Form. If you intend to accept the approved jurisdictional determination, you do not need to take any further action associated with the Administrative Appeal Process.

You may refer any questions on this matter to Naomi Schowalter of my Regulatory staff by telephone at 415-503-6763 or by e-mail at naomi.a.schowalter@usace.army.mil. All correspondence should be addressed to the Regulatory Division, South Branch, referencing the file number at the head of this letter.

The San Francisco District is committed to improving service to our customers. My Regulatory staff seeks to achieve the goals of the Regulatory Program in an efficient and cooperative manner while preserving and protecting our nation's aquatic resources. If you would like to provide comments on our Regulatory Program, please complete the Customer Service Survey Form available on our website: http://www.spn.usace.army.mil/Missions/Regulatory.aspx.

Sincerely,

Rick M. Bottoms, Ph.D.
Chief, Regulatory Division

Enclosures

Copy Furnished (w/ encls):

✓Robson Homes, San Jose, CA (Attn: Richard Yee)

Copy Furnished (w/ map only):

CA RWQCB, San Luis Obispo, CA




**LEGEND**

**Areas Meeting the Technical Criteria of Wetlands**

Non-jurisdictional Isolated Ponds 1.05 Ac

**Other Features**

Project Boundary 30 Ac

Sample Point

U.S. Army Corps of Engineers
San Francisco District
Regulatory Division

Approved Jurisdictional Determination
Valley Gardens Gold Course
Santa Cruz County, California

No Waters of the U.S. or Wetlands subject to Section 404 of the Clean Water Act or Section 10 of the Rivers and Harbors Act

Study Area Boundary

File No. **2018-00355S** Date: **October 4, 2018** Sheet 1 of 1

500' 0 250' 500 feet

**Approximate Scale**
**1' = 200'**

**Sources:**
Topographic Base courtesy of Ruggeri-Jensen-Azar Engineers
Aerial Photograph Courtesy of Google Earth 9/1/2017
Universal Transverse Mercator Coordinate System Zone 10, NAD83 / NAVD 1988

**Live Oak Associates, Inc.**

**Valley Gardens Golf Course**
Potential Waters of the U.S.

| Date | Project # | Figure # |
|---|---|---|
| 12/08/2017 | 2036-02 | 4 |

## Regulatory Program

**INTERIM APPROVED JURISDICTIONAL DETERMINATION FORM**
**U.S. Army Corps of Engineers**
This form should be completed by following the instructions provided in the Interim Approved Jurisdictional Determination Form User Manual.

**SECTION I: BACKGROUND INFORMATION**

A. COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (AJD): October 4, 2018

B. ORM NUMBER IN APPROPRIATE FORMAT (e.g., HQ-2015-00001-SMJ): SPN-2018-000355S

C. PROJECT LOCATION AND BACKGROUND INFORMATION:
State:California County/parish/borough: Santa Cruz Co. City: Scotts Valley
Center coordinates of site (lat/long in degree decimal format): Lat. 37.044869, Long. -122.034033.
Map(s)/diagram(s) of review area (including map identifying single point of entry (SPOE) watershed and/or potential jurisdictional areas where applicable) is/are: ☒attached ☐ in report/map titled .
☐ Other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with this action and are recorded on a different jurisdictional determination (JD) form. List JD form ID numbers (e.g., HQ-2015-00001-SMJ-1): .

D. REVIEW PERFORMED FOR SITE EVALUATION:
☐ Office (Desk) Determination Only. Date: .
☒ Office (Desk) and Field Determination. Office/Desk Dates: October 4, 2018 Field Date(s): September 2, 2018.

**SECTION II: DATA SOURCES**

Check all that were used to aid in the determination and attach data/maps to this AJD form and/or references/citations in the administrative record, as appropriate.
☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant. Title/Date: Investigation of Potential Waters of the United States - Valley Gardens Golf Course (Delineation Report), January 17, 2018.
☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
☒ Data sheets/delineation report are sufficient for purposes of AJD form. Title/Date: Appendix B of Delineation Report.
☐ Data sheets/delineation report are not sufficient for purposes of AJD form. Summarize rationale and include information on revised data sheets/delineation report that this AJD form has relied upon: .
Revised Title/Date: .
☐ Data sheets prepared by the Corps. Title/Date: .
☐ Corps navigable waters study. Title/Date: .
☐ CorpsMap ORM map layers. Title/Date: .
☐ USGS Hydrologic Atlas. Title/Date: .
☐ USGS, NHD, or WBD data/maps. Title/Date: .
☐ USGS 8, 10 and/or 12 digit HUC maps. HUC number: .
☒ USGS maps. Scale & quad name and date: 7.5' Felton Quad 1961, 1980, & 1995 (historicaerials.com; Figure 2 of Delineation Report).
☒ USDA NRCS Soil Survey. Citation: Figure 3 of Delineation Report.
☒ USFWS National Wetlands Inventory maps. Citation: Appendix D of Delineation Report.
☐ State/Local wetland inventory maps. Citation: .
☐ FEMA/FIRM maps. Citation: .
☒ Photographs: ☒ Aerial. Citation: Appendix E of Delineation Report (1940 - 2010); historicaerials.com (1953, 1968). or ☐ Other. Citation: .
☐ LiDAR data/maps. Citation: .
☐ Previous JDs. File no. and date of JD letter: .

☐ Applicable/supporting case law:
☐ Applicable/supporting scientific literature:
☐ Other information (please specify):

## SECTION III: SUMMARY OF FINDINGS

Complete ORM "Aquatic Resource Upload Sheet" or Export and Print the Aquatic Resource Water Droplet Screen from ORM for All Waters and Features, Regardless of Jurisdictional Status – Required

A. RIVERS AND HARBORS ACT (RHA) SECTION 10 DETERMINATION OF JURISDICTION:
☐ "*navigable waters of the U.S.*" within RHA jurisdiction (as defined by 33 CFR part 329) in the review area.
- **Complete Table 1 - Required**

*NOTE:* If the navigable water is not subject to the ebb and flow of the tide or included on the District's list of Section 10 navigable waters list, DO NOT USE THIS FORM TO MAKE THE DETERMINATION. The District must continue to follow the procedure outlined in 33 CFR part 329.14 to make a Section 10 RHA navigability determination.

B. CLEAN WATER ACT (CWA) SECTION 404 DETERMINATION OF JURISDICTION: "*waters of the U.S.*" within CWA jurisdiction (as defined by 33 CFR part 328.3) in the review area. **Check all that apply.**

☐ (a)(1): All waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide. (Traditional Navigable Waters (TNWs))
- **Complete Table 1 - Required**

☐ This AJD includes a case-specific (a)(1) TNW (Section 404 navigable-in-fact) determination on a water that has not previously been designated as such. Documentation required for this case-specific (a)(1) TNW determination is attached.

☐ (a)(2): All interstate waters, including interstate wetlands.
- **Complete Table 2 - Required**

☐ (a)(3): The territorial seas.
- **Complete Table 3 - Required**

☐ (a)(4): All impoundments of waters otherwise identified as waters of the U.S. under 33 CFR part 328.3.
- **Complete Table 4 - Required**

☐ (a)(5): All tributaries, as defined in 33 CFR part 328.3, of waters identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.
- **Complete Table 5 - Required**

☐ (a)(6): All waters adjacent to a water identified in paragraphs (a)(1)-(a)(5) of 33 CFR part 328.3, including wetlands, ponds, lakes, oxbows, impoundments, and similar waters.
- **Complete Table 6 - Required**

☐ Bordering/Contiguous.
Neighboring:
☐ (c)(2)(i): All waters located within 100 feet of the ordinary high water mark (OHWM) of a water identified in paragraphs (a)(1)-(a)(5) of 33 CFR part 328.3.
☐ (c)(2)(ii): All waters located within the 100-year floodplain of a water identified in paragraphs (a)(1)-(a)(5) of 33 CFR part 328.3 and not more than 1,500 feet of the OHWM of such water.
☐ (c)(2)(iii): All waters located within 1,500 feet of the high tide line of a water identified in paragraphs (a)(1) or (a)(3) of 33 CFR part 328.3, and all waters within 1,500 feet of the OHWM of the Great Lakes.

☐ (a)(7): All waters identified in 33 CFR 328.3(a)(7)(i)-(v) where they are determined, on a case-specific basis, to have a significant nexus to a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.
- **Complete Table 7 for the significant nexus determination. Attach a map delineating the SPOE watershed boundary with (a)(7) waters identified in the similarly situated analysis. - Required**

☐ Includes water(s) that are geographically and physically adjacent per (a)(6), but are being used for established, normal farming, silviculture, and ranching activities (33 USC Section 1344(f)(1)) and therefore are not adjacent and require a case-specific significant nexus determination.

☐ (a)(8): All waters located within the 100-year floodplain of a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3 not covered by (c)(2)(ii) above and all waters located within 4,000 feet of the high tide line or OHWM of a water identified in paragraphs (a)(1)-(a)(5) of 33 CFR part 328.3 where they are determined on a case-specific basis to have a significant nexus to a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.
- **Complete Table 8 for the significant nexus determination. Attach a map delineating the SPOE watershed boundary with (a)(8) waters identified in the similarly situated analysis. - Required**

☐ Includes water(s) that are geographically and physically adjacent per (a)(6), but are being used for established, normal farming, silviculture, and ranching activities (33 USC Section 1344(f)(1)) and therefore are not adjacent and require a case-specific significant nexus determination.

C. NON-WATERS OF THE U.S. FINDINGS:

**Check all that apply.**

☐ The review area is comprised entirely of dry land.

☐ Potential-(a)(7) Waters: Waters that DO NOT have a significant nexus to a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.

- **Complete Table 9 and attach a map delineating the SPOE watershed boundary with potential (a)(7) waters identified in the similarly situated analysis. - Required**

☐ Includes water(s) that are geographically and physically adjacent per (a)(6), but are being used for established, normal farming, silviculture, and ranching activities (33 USC Section 1344(f)(1)) and therefore are not adjacent and require a case-specific significant nexus determination.

☐ Potential-(a)(8) Waters: Waters that DO NOT have a significant nexus to a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.

- **Complete Table 9 and attach a map delineating the SPOE watershed boundary with potential (a)(8) waters identified in the similarly situated analysis. - Required**

☐ Includes water(s) that are geographically and physically adjacent per (a)(6), but are being used for established, normal farming, silviculture, and ranching activities (33 USC Section 1344(f)(1)) and therefore are not adjacent and require a case-specific significant nexus determination.

☒ Excluded Waters (Non-Waters of U.S.), even where they otherwise meet the terms of paragraphs (a)(4)-(a)(8):

- **Complete Table 10 - Required**

☐ (b)(1): Waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of the CWA.

☐ (b)(2): Prior converted cropland.

☐ (b)(3)(i): Ditches with ephemeral flow that are not a relocated tributary or excavated in a tributary.

☐ (b)(3)(ii): Ditches with intermittent flow that are not a relocated tributary, excavated in a tributary, or drain wetlands.

☐ (b)(3)(iii): Ditches that do not flow, either directly or through another water, into a water identified in paragraphs (a)(1)-(a)(3).

☐ (b)(4)(i): Artificially irrigated areas that would revert to dry land should application of water to that area cease.

☒ (b)(4)(ii): Artificial, constructed lakes and ponds created in dry land such as farm and stock watering ponds, irrigation ponds, settling basins, fields flooded for rice growing, log cleaning ponds, or cooling ponds.

☐ (b)(4)(iii): Artificial reflecting pools or swimming pools created in dry land.[1]

☐ (b)(4)(iv): Small ornamental waters created in dry land.[1]

☐ (b)(4)(v): Water-filled depressions created in dry land incidental to mining or construction activity, including pits excavated for obtaining fill, sand, or gravel that fill with water.

☐ (b)(4)(vi): Erosional features, including gullies, rills, and other ephemeral features that do not meet the definition of tributary, non-wetland swales, and lawfully constructed grassed waterways.[1]

☐ (b)(4)(vii): Puddles.[1]

☐ (b)(5): Groundwater, including groundwater drained through subsurface drainage systems.[1]

☐ (b)(6): Stormwater control features constructed to convey, treat, or store stormwater that are created in dry land.[1]

☐ (b)(7): Wastewater recycling structures created in dry land; detention and retention basins built for wastewater recycling; groundwater recharge basins; percolation ponds built for wastewater recycling; and water distributary structures built for wastewater recycling.

☐ Other non-jurisdictional waters/features within review area that do not meet the definitions in 33 CFR 328.3 of (a)(1)-(a)(8) waters and are not excluded waters identified in (b)(1)-(b)(7).

- **Complete Table 11 - Required.**

D. ADDITIONAL COMMENTS TO SUPPORT AJD:

[1] In many cases these excluded features will not be specifically identified on the AJD form, unless specifically requested. Corps Districts may, in case-by-case instances, choose to identify some or all of these features within the review area.

## Jurisdictional Waters of the U.S.

### Table 1. (a)(1) Traditional Navigable Waters

| (a)(1) Waters Name | (a)(1) Criteria | Rationale to Support (a)(1) Designation<br>Include High Tide Line or Ordinary High Water Mark indicators, when applicable. |
|---|---|---|
| N/A | Choose an item. | N/A |

### Table 2. (a)(2) Interstate Waters

| (a)(2) Waters Name | Rationale to Support (a)(2) Designation |
|---|---|
| N/A | N/A |

### Table 3. (a)(3) Territorial Seas

| (a)(3) Waters Name | Rationale to Support (a)(3) Designation |
|---|---|
| N/A | N/A |

### Table 4. (a)(4) Impoundments

| (a)(4) Waters Name | Rationale to Support (a)(4) Designation |
|---|---|
| N/A | N/A |
| N/A | N/A |

**Table 5. (a)(5)Tributaries**

| (a)(5) Waters Name | Flow Regime | (a)(1)-(a)(3) Water Name to which this (a)(5) Tributary Flows | Tributary Breaks | Rationale for (a)(5) Designation and Additional Discussion. Identify flowpath to (a)(1)-(a)(3) water or attach map identifying the flowpath; explain any breaks or flow through excluded/non-jurisdictional features, etc. |
|---|---|---|---|---|
| N/A | Choose an item. | N/A | Choose an item. | N/A |
| N/A | Choose an item. | N/A | Choose an item. | N/A |
| N/A | Choose an item. | N/A | Choose an item. | N/A |
| N/A | Choose an item. | N/A | Choose an item. | N/A |

**Table 6. (a)(6) Adjacent Waters**

| (a)(6) Waters Name | (a)(1)-(a)(5) Water Name to which this Water is Adjacent | Rationale for (a)(6) Designation and Additional Discussion. Identify the type of water and how the limits of jurisdiction were established (e.g., wetland, 87 Manual/Regional Supplement); explain how the 100-year floodplain and/or the distance threshold was determined; whether this water extends beyond a threshold; explain if the water is part of a mosaic, etc. |
|---|---|---|
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Table 7. (a)(7) Waters**

| SPOE Name | (a)(7) Waters Name | (a)(1)-(a)(3) Water Name to which this Water has a Significant Nexus | Significant Nexus Determination<br>Identify SPOE watershed; discuss whether any similarly situated waters were present and aggregated for SND; discuss data, provide analysis, and summarize how the waters have more than speculative or insubstantial effect on the physical, chemical, or biological integrity of the (a)(1)-(a)(3) water, etc. |
|---|---|---|---|
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |

**Table 8. (a)(8) Waters**

| SPOE Name | (a)(8) Waters Name | (a)(1)-(a)(3) Water Name to which this Water has a Significant Nexus | Significant Nexus Determination<br>Identify SPOE watershed; explain how 100-yr floodplain and/or the distance threshold was determined; discuss whether waters were determined to be similarly situated to subject water and aggregated for SND; discuss data, provide analysis, and then summarize how the waters have more than speculative or insubstantial effect the on the physical, chemical, or biological integrity of the (a)(1)-(a)(3) water, etc. |
|---|---|---|---|
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |

## Non-Jurisdictional Waters

### Table 9. Non-Waters/No Significant Nexus

| SPOE Name | Non-(a)(7)/(a)(8) Waters Name | (a)(1)-(a)(3) Water Name to which this Water DOES NOT have a Significant Nexus | Basis for Determination that the Functions DO NOT Contribute Significantly to the Chemical, Physical, or Biological Integrity of the (a)(1)-(a)(3) Water. Identify SPOE watershed; explain how 100-yr floodplain and/or the distance threshold was determined; discuss whether waters were determined to be similarly situated to the subject water; discuss data, provide analysis, and summarize how the waters did not have more than a speculative or insubstantial effect on the physical, chemical, or biological integrity of the (a)(1)-(a)(3) water. |
|---|---|---|---|
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |

### Table 10. Non-Waters/Excluded Waters and Features

| Paragraph (b) Excluded Feature/Water Name | Rationale for Paragraph (b) Excluded Feature/Water and Additional Discussion. |
|---|---|
| SP1/SP2 | These ponds (connected via a culvert) are artificial features constructed in dry land to store irrigation water for the golf course. The following evidence was used to determine that SP1/SP2 were constructed in dry land:<br><br>1. The USGS 7.5' topographic quad from 1961 does not display any aquatic features where SP1/SP2 is located. The pond features appears in the 1980 quad.<br>2. Aerial photos from 1940, 1948, 1953, 1956, and 1968 do not display any clear wetland signatures where SP1/SP2 is located. The pond features appear first appear in a photo from 1974.<br>3. The NRCS Soil Survey identifies the soils in the location of SP1/SP2 as Zayante course sand, 2-9% slopes. These soils do not generally support wetlands.<br><br>Though the owner of the golf course stated that the SP1/SP2 was originally filled with water from a natural spring that dried up in the 1980s, there is no evidence that the spring was located within SP1/SP2. It is more likely that this spring was associated with a small pond located directly west of SP1/SP2 that was visible in aerial photos and quad maps prior to 1991 and 1995, respectively. This pond no longer exists on the property. |
| N/A | N/A |

### Table 11. Non-Waters/Other

| Other Non-Waters of U.S. Feature/Water Name | Rationale for Non-Waters of U.S. Feature/Water and Additional Discussion. |
|---|---|

| | |
|---|---|
| N/A | N/A |

## NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

| Applicant: Mr. Richard Yee, Robson Homes | File Number:2018-00355 | Date:5 Nov 2018 |
|---|---|---|
| Attached is: | | See Section below |
| | INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission) | A |
| | PROFFERED PERMIT (Standard Permit or Letter of permission) | B |
| | PERMIT DENIAL | C |
| | APPROVED JURISDICTIONAL DETERMINATION | D |
| | PRELIMINARY JURISDICTIONAL DETERMINATION | E |

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at http://www.usace.army.mil/cecw/pages/reg_materials.aspx or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

## SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

## POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

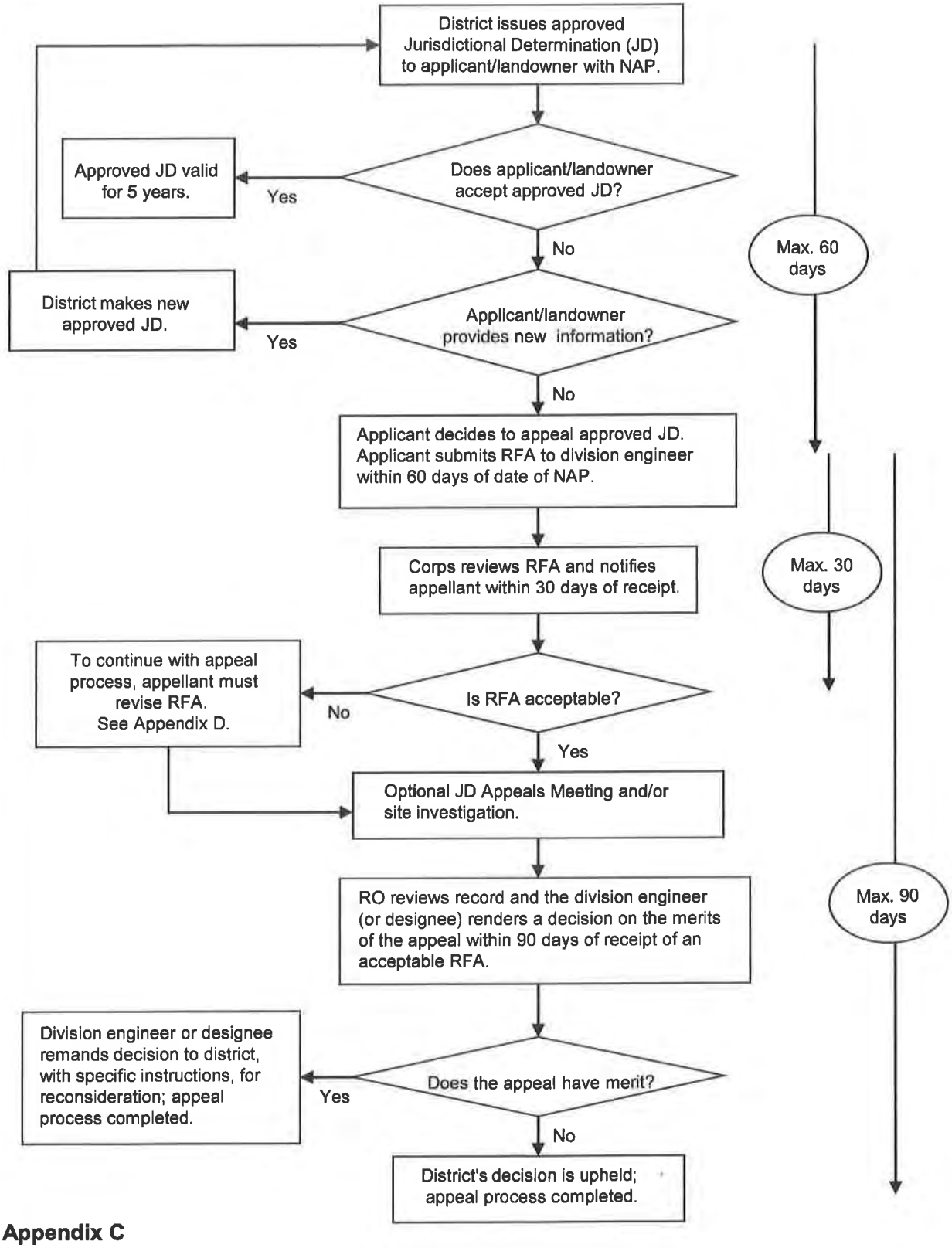
If you have questions regarding this decision and/or the appeal process you may contact:
Katerina Galacatos
South Branch Chief, Regulatory Division
San Francisco District, U.S. Army Corps of Engineers
1455 Market Street, 16th floor
San Francisco, CA 94103-1398
Phone: (415) 503-6778 Email: Katerina.galacatos@usace.army.mil

If you only have questions regarding the appeal process you may also contact: Thomas J. Cavanaugh
Administrative Appeal Review Officer,
U.S. Army Corps of Engineers
South Pacific Division
1455 Market Street, 2052B
San Francisco, California 94103-1399
Phone: (415) 503-6574 Fax: (415) 503-6646
Email: thomas.j.cavanaugh@usace.army.mil

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

| | Date: | Telephone number: |
|---|---|---|
| _____ Signature of appellant or agent. | | |

# Administrative Appeal Process for Approved Jurisdictional Determinations




**Appendix C**

LIVE OAK ASSOCIATES, INC.
an Ecological Consulting Firm

November 6, 2019

Kim Sanders
Environmental Scientist
Central Coast Water Quality Control Board
895 Aerovist Place, Suite 101
San Luis Obispo, CA 93401

**SUBJECT: Jurisdictional status of golf course irrigation storage ponds on the Valley Gardens Golf Course in the City of Scotts Valley, Santa Cruz County, California (PN 2036-01)**

Dear Ms. Sanders:

This letter is in response to emails and phone calls that we have had with you regarding the jurisdictional status of the golf course irrigation storage ponds occurring on the Valley Gardens Golf Course property, located at 263 Mt. Hermon Road in Scotts Valley, California. This letter is an update based upon new surveys conducted on the site on October 8, 2019 specifically to evaluate the current conditions of the former golf course irrigation storage ponds, and to determine the extent to which they meet the current definition of a water of the state under your jurisdiction.

In November 2018, the golf course ceased operations and closed, and, as a result, the golf course also stopped irrigating their turf grasses and therefore stopped pumping water into their irrigation storage ponds. The following report provides information on the status of the former irrigation storage ponds one year since the golf course closed.

**Introduction**

As you are aware, Live Oak Associates, Inc. (LOA) conducted a formal wetland delineation of the golf course irrigation storage ponds in December 2017 and January 2018. Our delineation was subsequently verified by the U.S. Army Corps of Engineers (USACE) who determined in their Jurisdictional Determination (JD) (2018) that, while the ponds met their criteria for wetlands, the ponds on the site were manmade features excavated in uplands and were therefore not jurisdictional waters of the U.S.

On November 12, 2018, we also reached out to the Central Coast RWQCB for a jurisdictional determination on the irrigation ponds. On December 18, 2018, you sent us an email stating that the RWQCB was taking jurisdiction over the ponds based on the State Water Resources Control

Board's *Preliminary Draft State Wetland Definition and Procedures for Discharges of Dredged or Fill Materials to Waters of the State, 2017, Section II.* You further indicated that it was up to the project proponent to show that the golf course irrigation storage features did not meet the definition of a regulated wetland.

Pursuant to Section II of the RWQCB's *State Wetland Definition and Procedures for Discharges of Dredged or Fill Materials to Waters of the State* (adopted April 2019), the current definition of wetlands regulated by RWQCB is the following:

*"The Water Boards define an area as wetland as follows:*

*An area is wetland if, under normal circumstances, (1) the area has continuous or recurrent saturation of the upper substrate caused by groundwater, or shallow surface water, or both; (2) the duration of such saturation is sufficient to cause anaerobic conditions in the upper substrate; and (3) the area's vegetation is dominated by hydrophytes or the area lacks vegetation.*

*The Water Code defines "waters of the state" broadly to include "any surface water or groundwater, including saline waters, within the boundaries of the state." "Waters of the state" includes all "waters of the U.S."*

*The following wetlands are waters of the state:*

1. *Natural wetlands,*
2. *Wetlands created by modification of a surface water of the state, and*
3. *Artificial wetlands that meet any of the following criteria:*
   *a. Approved by an agency as compensatory mitigation for impacts to other waters of the state, except where the approving agency explicitly identifies the mitigation as being of limited duration;*
   *b. Specifically identified in a water quality control plan as a wetland or other water of the state;*
   *c. Resulted from historic human activity, is not subject to ongoing operation and maintenance, and has become a relatively permanent part of the natural landscape; or*
   *d. Greater than or equal to one acre in size, unless the artificial wetland was constructed, and is currently used and maintained, primarily for one or more of the following purposes (i.e., the following artificial wetlands are not waters of the state unless they also satisfy the criteria set forth in 2, 3a, or 3b):*
      *i. Industrial or municipal wastewater treatment or disposal,*
      *ii. Settling of sediment,*
      *iii. Detention, retention, infiltration, or treatment of stormwater runoff and other pollutants or runoff subject to regulation under a municipal, construction, or industrial stormwater permitting program,*
      *iv. Treatment of surface waters,*
      *v. Agricultural crop irrigation or stock watering,*
      *vi. Fire suppression,*
      *vii. Industrial processing or cooling,*
      *viii. Active surface mining – even if the site is managed for interim wetlands functions and values,*

*v. Agricultural crop irrigation or stock watering,*
*vi. Fire suppression,*
*vii. Industrial processing or cooling,*
*viii. Active surface mining – even if the site is managed for interim wetlands functions and values,*
*ix. Log storage,*
*x. Treatment, storage or distribution of recycled water,*
*xi. Maximizing groundwater recharge (this does not include wetlands that have incidental groundwater recharge benefits), or*
*xii. Fields flooded for rice growing."*

**Existing Conditions of the Golf Course Irrigation Storage Ponds**

On October 8, 2019, I completed a new delineation survey of the golf course irrigation ponds to determine if they met the RWQCB's definition of a regulated wetland as stated above given they were no longer being artificially filled with water since November of last year.

I found that the ponds are now completely dry, and that there is no evidence that these features receive hydrology from a spring or a high water table. The latter also is backed up by a groundwater analysis that our client, Robson Homes, had conducted by Geo-Logic Associates which found that the water table is 19.65 feet deep. This lends further support to the USACE JD finding that these irrigation storage features are artificial features excavated in uplands.

The rapid drying of the irrigation ponds once irrigation water was no longer being pumped into them also indicates that these features are not "relatively permanent" and that they had to be "maintained and operated" by the golf course on an ongoing basis to function. For the most part, these former pond features are sparsely vegetated with species having a USFWS wetland indicator of FACU or UPL.

I established four sample points (Sample Points A through D) within the former pond areas to determine if the three-pronged RWQCB wetland criteria were being met (i.e. prevalence of wetland vegetation (or barren), hydric soils, and wetland hydrology). Data sheets from these sample points are attached along with photos that depict the existing conditions of these features. Our sampling indicates that only a small area of approximately 578 square feet in size in the deepest part of the former ponds still meets the wetland definition (Sample Point C). The deepest part of the former irrigation ponds was the last area to dry out completely and still has a prevalence of vegetation with a FAC or greater wetland indicator, soils that meet hydric soils criteria due to a low chroma (but no evidence of oxidation features) and, while completely dry, still exhibits one primary indicator of wetland hydrology, i.e. cracked soils.

**Conclusions**

In conclusion, only approximately 578 square feet of the dried ponds appear to meet the definition of wetlands based on the sample point data. Additionally, the former storage ponds appear to be artificial features excavated in uplands that were operated and maintained by the golf course for the purpose of storing irrigation waters, and, as such, they do not appear to meet

either Definition 1 (i.e. natural wetlands) or Definition 2 (i.e. wetlands created by a modification of a waters of the state) as per the RWQCB's current definitions of wetlands that are waters of the state. These features also do not meet the definition of an artificial wetland under the State's jurisdiction under Definitions 3.a. or 3.b, as they are not mitigation features and also are not part of a water quality control plan. They also do not appear to meet Definition 3.c. as these features were operated and maintained on a regular basis by the golf course, including filling with pumped water and vegetation removal. Lastly, they also do not appear to meet Definition 3.d. as areas that still meet the wetland criteria are much less than an acre in area.

Given the foregoing, these features no longer appear to meet the definition of a regulated wetland under the RWQCB's current definition of wetlands and we are asking the RWQCB to revisit their jurisdictional status.

Please feel free to contact me if you wish to discuss our findings or would like to set up a site visit.

Sincerely,



Pamela E. Peterson
Senior Project Manager
Plant and Wetland Ecologist
408-281-5884 (office)
408-833-5391 (mobile)

List of Attachments:

Attachment 1: Wetland Data Sheets
Attachment 2: October 2019 Photographs
Attachment 3: Figure 1

# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Valley Gardens Golf Course City/County: Scotts Valley, Santa Cruz County Sampling Date: 10/8/19

Applicant/Owner: Robson Homes State: CA Sampling Point: SP A

Investigator(s): P. Peterson Section, Township, Range: Section 24, T10S, R2W

Landform (hillslope, terrace, etc.): Former Irrigation Storage Pond Local relief (concave, convex, none): concave Slope (%): 3-5%

Subregion (LRR): C Lat: Long: Datum: NAD 83

Soil Map Unit Name: Zayante Course Sand NWI classification: Freshwater Pond

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)

Are Vegetation x, Soil , or Hydrology x significantly disturbed? Are "Normal Circumstances" present? Yes No x

Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| | | | |
|---|---|---|---|
| Hydrophytic Vegetation Present? | Yes x | No | **Is the Sampled Area within a Wetland?** **Yes** **No x** |
| Hydric Soil Present? | Yes | No x | |
| Wetland Hydrology Present? | Yes | No x | |

Remarks: Feature is a dry former golf course pond that was once used to store water for golf course irrigation. This portion of the former pond only meet the vegetation criterion for wetlands, likely due to the presence of woody riparian-type vegetation that would be expected to persist in the absence of wetland hydrology. It does not meet hydric soils or hydrology criteria.

## VEGETATION

| Tree Stratum (Use scientific names.) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. Salix lasiolepis | 20 | Y | FACW |
| 2. Washingtonia filifera | 10 | Y | FAC |
| 3. | | | |
| 4. | | | |
| Total Cover: | 30 | | |
| **Sapling/Shrub Stratum** | | | |
| 1. N/a | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| Total Cover: | | | |
| **Herb Stratum** | | | |
| 1. Persicaria maculosa | 10 | Y | FACW |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| Total Cover: | 10 | | |
| **Woody Vine Stratum** | | | |
| 1. Rubus armeniacus | 20 | Y | FAC |
| 2. | | | |
| Total Cover: | 20 | | |

% Bare Ground in Herb Stratum 80 % Cover of Biotic Crust 0

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

**Prevalence Index worksheet:**

| Total % Cover of: | Multiply by: |
|---|---|
| OBL species | x 1 = |
| FACW species | x 2 = |
| FAC species | x 3 = |
| FACU species | x 4 = |
| UPL species | x 5 = |
| Column Totals: (A) | (B) |

Prevalence Index = B/A =

**Hydrophytic Vegetation Indicators:**

- Dominance Test is >50%
- Prevalence Index is ≤3.0[1]
- Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

**Hydrophytic Vegetation Present?** **Yes x** **No**

Remarks: Meets vegetation criterion of wetlands due to presence of woody riparian-type vegetation that would be expected to persist for some time in the absence of hydrology.

## SOIL

Sampling Point: A

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix Color (moist) | Matrix % | Redox Features Color (moist) | Redox Features % | Type[1] | Loc[2] | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|
| 0-12 | 10YR 6/2 | 100 | N/a | | | | Sand | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

**Indicators for Problematic Hydric Soils[3]:**

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

**Restrictive Layer (if present):**

Type: _____

Depth (inches): _____

**Hydric Soil Present? Yes _____ No x**

Remarks: Does not meet hydric soils criterion. Soils are sandy and appear to be well-drained.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (any one indicator is sufficient)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Plowed Soils (C6)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Thin Muck Surface (C7)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- x FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes _____ No x Depth (inches): _____

Water Table Present? Yes _____ No x Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No x Depth (inches): _____

**Wetland Hydrology Present? Yes _____ No x**

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Meets only one secondary hydrology criterion.

# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Valley Gardens Golf Course City/County: Scotts Valley, Santa Cruz County Sampling Date: 10/8/19

Applicant/Owner: Robson Homes State: CA Sampling Point: SP B

Investigator(s): P. Peterson Section, Township, Range: Section 24, T10S, R2W

Landform (hillslope, terrace, etc.): Former Irrigation Storage Pond Local relief (concave, convex, none): concave Slope (%): 3-5%

Subregion (LRR): C Lat: Long: Datum: NAD 83

Soil Map Unit Name: Zayante Course Sand NWI classification: Freshwater Pond

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology x significantly disturbed? Are "Normal Circumstances" present? Yes No x

Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| | |
|---|---|
| Hydrophytic Vegetation Present? Yes x No | **Is the Sampled Area within a Wetland? Yes No x** |
| Hydric Soil Present? Yes No x | |
| Wetland Hydrology Present? Yes No x | |

Remarks: Feature is a former golf course pond once operated and maintained to store water for golf course irrigation. Sample point location meets only one of three wetland criteria, i.e. hydrophytic vegetation is present with only one dominant plant which has a FAC indicator. Other non dominant plants present have indicators ranging from UPL to FACW. It appears this location is transitioning to a non-wetland.

## VEGETATION

| Tree Stratum (Use scientific names.) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. N/a | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| Total Cover: | | | |
| **Sapling/Shrub Stratum** | | | |
| 1. N/a | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| Total Cover: | | | |
| **Herb Stratum** | | | |
| 1. Pseudognaphalium luteo-album | 50 | Y | FAC |
| 2. Conyza canadensis | <5 | N | UPL |
| 3. Epilobium ciliolatum | <1 | N | FACW |
| 4. Lactuca serriola | <1 | N | FACU |
| 5. Persicaria maculosa | <1 | N | FACW |
| 6. Plantago lanceolata | <1 | N | FAC |
| 7. Cyperus eragrostix | <1 | N | FACW |
| 8. | | | |
| Total Cover: 52 | | | |
| **Woody Vine Stratum** | | | |
| 1. N/a | | | |
| 2. | | | |
| Total Cover: | | | |

% Bare Ground in Herb Stratum 48 % Cover of Biotic Crust

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

**Prevalence Index worksheet:**

| Total % Cover of: | Multiply by: |
|---|---|
| OBL species | x 1 = |
| FACW species | x 2 = |
| FAC species | x 3 = |
| FACU species | x 4 = |
| UPL species | x 5 = |
| Column Totals: (A) | (B) |

Prevalence Index = B/A =

**Hydrophytic Vegetation Indicators:**

x Dominance Test is >50%

__ Prevalence Index is ≤3.0[1]

__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

**Hydrophytic Vegetation Present? Yes x No**

Remarks: The entire surface of the inundated pond is covered with duckweed (Lemna sp.). Vegetation is removed around most of the perimeter of the pond, although some sedges are present along the edges which have not been removed. If the golf course did not remove vegetation within the pond and along its perimeter, it likely would support emergent wetland vegetation.

## SOIL

Sampling Point: B

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix Color (moist) | % | Redox Features Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|
| 0-12 | 10YR 6/2 | 100 | N/a | | | | Sandy loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- _x_ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

**Indicators for Problematic Hydric Soils[3]:**

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

**Restrictive Layer (if present):**

Type: _____

Depth (inches): _____

**Hydric Soil Present? Yes _____ No _x_**

Remarks: Does not meet hydric soils criterion. Soils are sandy and it appears they are well-drained.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (any one indicator is sufficient)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Plowed Soils (C6)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Thin Muck Surface (C7)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- _x_ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ____ No _x_ Depth (inches): _____

Water Table Present? Yes ____ No _x_ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ____ No _x_ Depth (inches): _____

**Wetland Hydrology Present? Yes _____ No _x_**

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No primary or secondary hydrology indicators are present.

# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Valley Gardens Golf Course City/County: Scotts Valley, Santa Cruz County Sampling Date: 10/8/19

Applicant/Owner: Robson Homes State: CA Sampling Point: SP C

Investigator(s): P. Peterson Section, Township, Range: Section 24, T10S, R2W

Landform (hillslope, terrace, etc.): Former Irrigation Storage Pond Local relief (concave, convex, none): concave Slope (%): 3-5%

Subregion (LRR): C Lat: Long: Datum: NAD 83

Soil Map Unit Name: Zayante Course Sand NWI classification: Freshwater Pond

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)

Are Vegetation -, Soil , or Hydrology x significantly disturbed? Are "Normal Circumstances" present? Yes No x

Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| | | |
|---|---|---|
| Hydrophytic Vegetation Present? | Yes x No | **Is the Sampled Area within a Wetland?** **Yes x No -** |
| Hydric Soil Present? | Yes No x | |
| Wetland Hydrology Present? | Yes No x | |

Remarks: Sample point taken at lowest point in former, and now dry, golf course irrigation pond. Location barely meets wetland criteria and it appears that in the absence of hydrology (i.e. in absence of continued golf course operation and pumping water into this feature) that it is transitioning to a non-wetland feature.

## VEGETATION

| Tree Stratum (Use scientific names.) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. N/a | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| Total Cover: | | | |
| **Sapling/Shrub Stratum** | | | |
| 1. N/a | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| Total Cover: | | | |
| **Herb Stratum** | | | |
| 1. Taraxacum officinale | 25 | Y | FACU |
| 2. Typha sp. | <1 | N | OBL |
| 3. Persicaria maculosa | 30 | Y | FACW |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| Total Cover: 56 | | | |
| **Woody Vine Stratum** | | | |
| 1. N/a | | | |
| 2. | | | |
| Total Cover: | | | |

% Bare Ground in Herb Stratum 44 % Cover of Biotic Crust 0

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

**Prevalence Index worksheet:**

| Total % Cover of: | Multiply by: |
|---|---|
| OBL species | x 1 = |
| FACW species 30 | x 2 = 60 |
| FAC species | x 3 = |
| FACU species 25 | x 4 = 100 |
| UPL species | x 5 = |
| Column Totals: 55 (A) | 160 (B) |

Prevalence Index = B/A = 2.9

**Hydrophytic Vegetation Indicators:**

___ Dominance Test is >50%

x Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

**Hydrophytic Vegetation Present?** **Yes x No**

Remarks: Barely meets the vegetation criterion for wetlands. Fails the Dominance Test and barely meets the Prevalence Index.

## SOIL

Sampling Point: C

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix Color (moist) | % | Redox Features Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|
| 0-12 | 10YR 2/1 | 100 | N/a | | | | Sandy loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- x Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

**Indicators for Problematic Hydric Soils[3]:**

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

**Restrictive Layer (if present):**

Type: _____

Depth (inches): _____

**Hydric Soil Present? Yes x No _____**

Remarks: Meets hydric soils criterion due to low chroma, but no oxidation features are present. Soils are sandy and appear well-drained.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (any one indicator is sufficient)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- x Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Plowed Soils (C6)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Thin Muck Surface (C7)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- x FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ____ No x Depth (inches): _____

Water Table Present? Yes ____ No x Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ____ No x Depth (inches): _____

**Wetland Hydrology Present? Yes x No _____**

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Meets wetland hydrology criterion due to presence of surface soil cracks in this location. Appears likely the surface soil cracks will go away due to absence of pumped water.

# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Valley Gardens Golf Course City/County: Scotts Valley, Santa Cruz County Sampling Date: 10/8/19

Applicant/Owner: Robson Homes State: CA Sampling Point: SP D

Investigator(s): P. Peterson Section, Township, Range: Section 24, T10S, R2W

Landform (hillslope, terrace, etc.): Former Irrigation Storage Pond Local relief (concave, convex, none): concave Slope (%): 3-5%

Subregion (LRR): C Lat: Long: Datum: NAD 83

Soil Map Unit Name: Zayante Course Sand NWI classification: Freshwater Pond

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology x significantly disturbed? Are "Normal Circumstances" present? Yes No x

Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| | | |
|---|---|---|
| Hydrophytic Vegetation Present? | Yes No x | **Is the Sampled Area within a Wetland?** **Yes No x** |
| Hydric Soil Present? | Yes x No | |
| Wetland Hydrology Present? | Yes x No | |

Remarks: Sample point taken in now dry former golf course pond once used to store water for golf course irrigation. Only meets two of three criteria for wetlands.

## VEGETATION

| Tree Stratum (Use scientific names.) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. N/a | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| Total Cover: | | | |
| **Sapling/Shrub Stratum** | | | |
| 1. N/a | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| Total Cover: | | | |
| **Herb Stratum** | | | |
| 1. Gnaphalium luteo-album | 25 | Y | FAC |
| 2. Lactuca serriola | 20 | Y | FACU |
| 3. Taraxacum officinale | 10 | Y | FACU |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| Total Cover: | 55 | | |
| **Woody Vine Stratum** | | | |
| 1. N/a | | | |
| 2. | | | |
| Total Cover: | | | |

% Bare Ground in Herb Stratum 45 % Cover of Biotic Crust 0

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B)

**Prevalence Index worksheet:**

| Total % Cover of: | Multiply by: |
|---|---|
| OBL species | x 1 = |
| FACW species | x 2 = |
| FAC species | x 3 = |
| FACU species | x 4 = |
| UPL species | x 5 = |
| Column Totals: (A) | (B) |

Prevalence Index = B/A =

**Hydrophytic Vegetation Indicators:**

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

**Hydrophytic Vegetation Present?** **Yes No x**

Remarks: Does not meet the vegetation criterion for wetlands.

## SOIL

Sampling Point: D

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix Color (moist) | % | Redox Features Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|
| 0-12 | 10YR 2/1 | 100 | N/a | | | | Sandy loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- x Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

**Indicators for Problematic Hydric Soils[3]:**

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

**Restrictive Layer (if present):**

Type: _____

Depth (inches): _____

**Hydric Soil Present? Yes x No _____**

Remarks: Meets hydric soils criterion with low chroma but no redox features are present.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (any one indicator is sufficient)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- x Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Plowed Soils (C6)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Thin Muck Surface (C7)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ____ No x Depth (inches): _____

Water Table Present? Yes ____ No x Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ____ No x Depth (inches): _____

**Wetland Hydrology Present? Yes x No _____**

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Meets wetland hydrology criterion due to presence of one primary indicator, i.e. soil surface cracks..

Attachment 2: Valley Gardens Representative Photographs



Photo 1. Predominantly barren areas of former golf course pond; area no longer meeting the USACE wetland criteria.



Photo 2. Sample Point A; area not meeting USACE wetland criteria.



Photo 3. Sample Point B; area not meeting USACE wetland criteria.



Photo 4. Sample Point B; Areas no longer meeting the USACE wetland criteria.



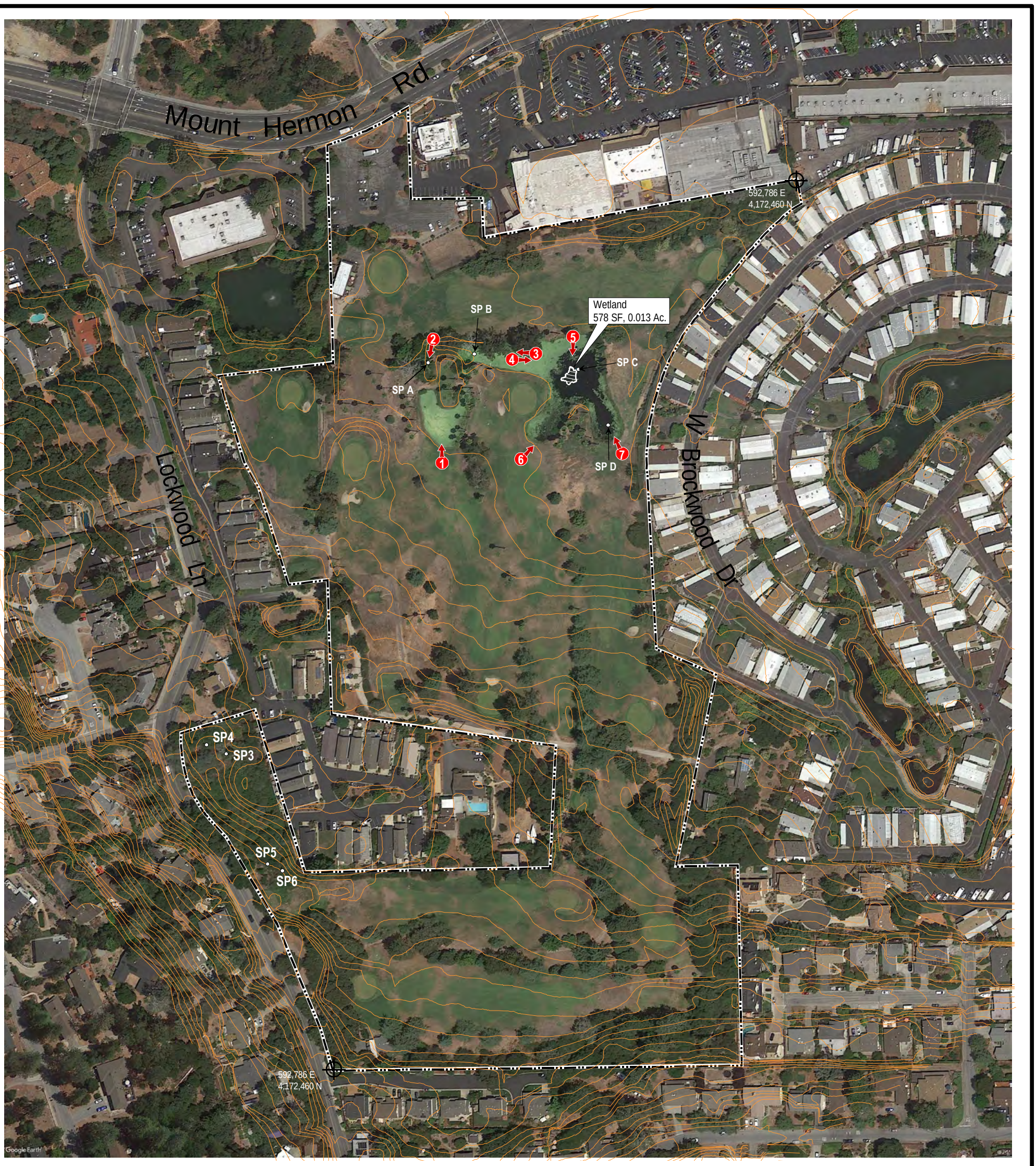
Photo 5. Sample Point C; only area of pond still meeting the USACE wetland criteria.



Photo 6. Looking northeast across eastern portion of pond.



Photo 7. Sample Point D; area of former pond no longer meet USACE wetland criteria.




## LEGEND

### Areas Still Meeting the USACE Technical Criteria for Wetlands

Wetland 578 Sq. Ft. / 0.013 Ac

### Other Features

Project Boundary 30 Ac

SP D Sample Point and Identification

3 Photo Point and Direction of View

500' 0 250' 500 feet

**Approximate Scale**
**1' = 200'**

**Sources:**
Topographic Base courtesy of Ruggeri-Jensen-Azar Engineers
Aerial Photograph Courtesy of Google Earth 8/09/2018
Universal Transverse Mercator Coordinate System Zone 10, NAD83 / NAVD 1988

**Live Oak Associates, Inc.**

**Valley Gardens Golf Course**
Potential Waters of the U.S.

| Date | Project # | Figure # |
|---|---|---|
| 10/16/2019 | 2036-02 | 4 |

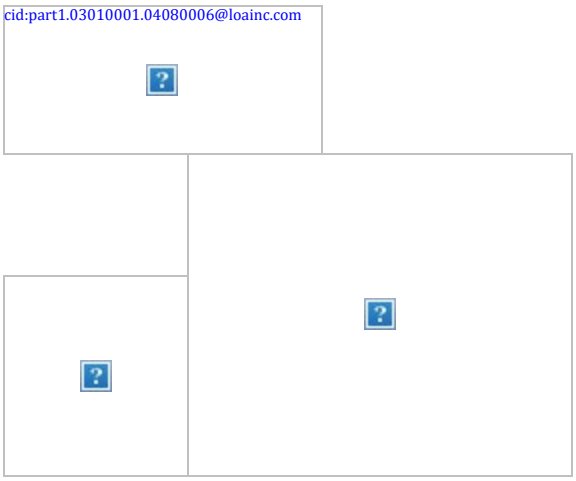
**From:** Pam Peterson
**To:** Boitano, Dominic
**Subject:** FW: Valley Gardens Golf Course
**Date:** Monday, January 13, 2020 3:52:34 PM
**Attachments:** image001.jpg
image002.jpg
image004.jpg
image005.jpg
image006.jpg

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Hi Dominic,

RWQCB won't provide a letter. Here is their email confirming they will not take jurisdiction of the ponds on the site.

Pamela Peterson
Senior Project Manager, Plant and Wetland Ecologist
Live Oak Associates, Inc.
Direct (408) 281-5884
Main (408) 224-8300
www.loainc.com




---

**From:** Sanders, Kim@Waterboards <Kim.Sanders@waterboards.ca.gov>
**Sent:** Monday, January 13, 2020 3:47 PM
**To:** Pam Peterson <ppeterson@loainc.com>
**Subject:** RE: Valley Gardens Golf Course

**EXTERNAL SENDER**

---

Hi Pam,
This email will have to suffice.

Central Coast Water Board will not be taking regulatory authority over the ponds on the Valley Gardens Golf Course in the City of Scott's Valley and as identified in the **INVESTIGATION OF POTENTIAL WATERS OF THE UNITED STATES, VALLEY GARDENS GOLF COURSE, CITY OF SCOTTS VALLEY, SANTA CRUZ COUNTY, CALIFORNIA**, January 17, 2018.

Kim Sanders
Environmental Scientist
Central Coast Water Quality Control Board
805-542-4771

---

**From:** Pam Peterson <ppeterson@loainc.com>
**Sent:** Monday, January 13, 2020 3:41 PM
**To:** Sanders, Kim@Waterboards <Kim.Sanders@waterboards.ca.gov>
**Subject:** RE: Valley Gardens Golf Course

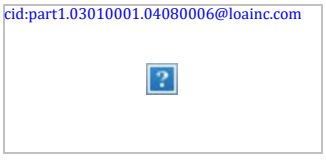
EXTERNAL:

Thank you for confirming this via email, Kim.

Is it possible to get something in letter form that we can provide to the City of Scotts Valley should they want confirmation that our client will not need a permit?

Thank you in advance.

Pamela Peterson
Senior Project Manager, Plant and Wetland Ecologist
Live Oak Associates, Inc.
Direct (408) 281-5884
Main (408) 224-8300
www.loainc.com





**From:** Pam Peterson <ppeterson@loainc.com>
**Sent:** Monday, November 11, 2019 2:53 PM
**To:** Sanders, Kim@Waterboards <Kim.Sanders@waterboards.ca.gov>
**Subject:** Valley Gardens Golf Course

Hi Kim,

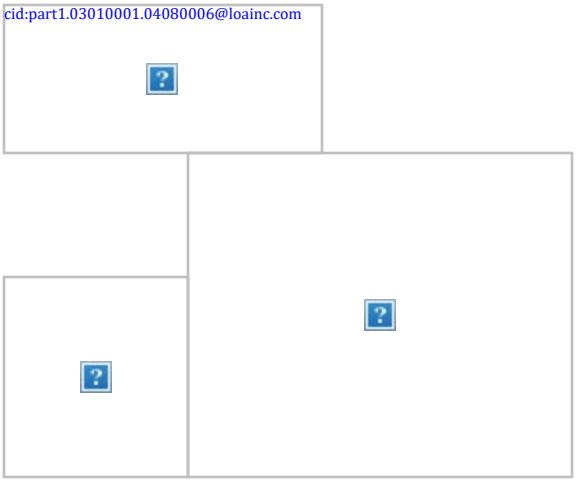
I have attached this letter regarding the current status of the former irrigation storage ponds on the Valley Gardens Golf Course project site, located in Scotts Valley, Santa Cruz County. As you are aware, the RWQCB took jurisdiction over these features in November last year stating that the ball was in our client's court to provide information demonstrating that they should not be considered jurisdictional.

The golf course closed its doors in November 2018 and at that time, they discontinued irrigating their greens and therefore discontinued filling their irrigation storage ponds with water pumped from the on-site well. As of last month, the former ponds are now completely dry. I established sample points within these features to determine whether they still met all criteria for wetlands, as well as evaluated them in terms of the RWQCB's current definition of a regulated wetland. Based on the survey and evaluation, while a small area of the now dry features still meets criteria for wetlands, these features do not appear to meet the definition of a regulated wetland.

Once you have had a chance to review the attached letter, please contact me to discuss.

Thanks in advance for your consideration.

Pamela Peterson
Senior Project Manager, Plant and Wetland Ecologist
Live Oak Associates, Inc.
Direct (408) 281-5884
Main (408) 224-8300
www.loainc.com


cid:part1.03010001.04080006@loainc.com

# Tree Inventory, Assessment and Protection

**Valley Gardens Golf Course**
**263 Mt Hermon Road**
**Scotts Valley, CA 95066**

**February 13, 2019**
**Revised December 14, 2020**
**Revised August 30, 2021**
**Revised December 15, 2022**
**Revised May 9, 2024**

**Prepared for:**

**Robson Homes, LLC**

**Prepared By:**

**Richard Gessner**
***ASCA - Registered Consulting Arborist ® #496***
***ISA - Board Certified Master Arborist® WE-4341B***

**Monarch Consulting Arborists**

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# Summary

Robson Homes, LLC plans to develop the Valley Gardens Golf Course into a multi-unit residential and commercial site with a centrally located park around the existing pond area. Inventoried were 579 trees comprised of 35 different species with coast live oak (*Quercus agrifolia*) and Mexican fan palm (*Washingtonia robusta*) being the most abundant. Most of the trees are in good or fair condition with forty-two percent (42%) good and forty-five percent (45%) fair. Forty-nine percent (49%) have good suitability for retention and remaining fifty-one percent (51%) either fair, poor or they are dead. Four-hundred and thirty-five (435) trees will be highly impacted and caused to be removed. The remaining one-hundred and thirty-five (135) will either be moderately affected or not impacted and are to be retained and protected. Thirteen trees recently died and some were removed for fire safety, but are included in the total inventory. The remaining one-hundred and forty-two(142) will either be moderately affected or not impacted and are to be retained and protected. Of the trees to be removed one-hundred and seventy (170) consist of over planted Mexican fan palms or trees in poor condition with poor suitability. Most of the tree protection for this project will require encompassing large groups of trees and few individuals at to be determined radii. Many are located around the perimeter.

# Introduction

## Background

Robson Homes, LLC asked me to assess the site, trees, proposed footprint plan, and to provide a report with my findings and recommendations to help satisfy the City of Scotts Valley planning requirements.

## Assignment

1. Provide an arborist's report including an assessment of the trees within the project area that could be affected. The assessment is to include the species, size (trunk diameter), condition (health, structure, form), and suitability for preservation ratings.
2. Provide tree protection guidelines, specifications, and expected impact ratings for those affected by the project.

## Limits of the Assignment

1. No tree risk assessments were performed. The information in this report is limited to the condition of the trees during my inspections summer of 2018, 2020, and 2022.
2. No appraised monetary tree values are provided.
3. Every attempt was made to provide an accurate tree count and assessment. Many trees were not located by a civil engineer before or after my assessment. The report relies on the provided plans for locations and are not included in the report.
4. Trees to be removed or retained are based on the site conditions and plans reviewed. In the event the plans must be modified the number and locations of the trees highly impacted may change and will need to be re-evaluated at that time.
5. The plans reviewed for this assignment were the Valley Gardens Plan Update Package drafted by Civil Engineers and Associates, May 6, 2024 and provided by Robson Homes.

## Purpose and Use of the Report

The report is intended to identify all the trees within the plan area that could be affected by a project. The report is to be used by the property owners, owner's agents, and the City of Scotts Valley as a reference for existing tree conditions to help satisfy planning requirements.

# Observations

## Tree Inventory

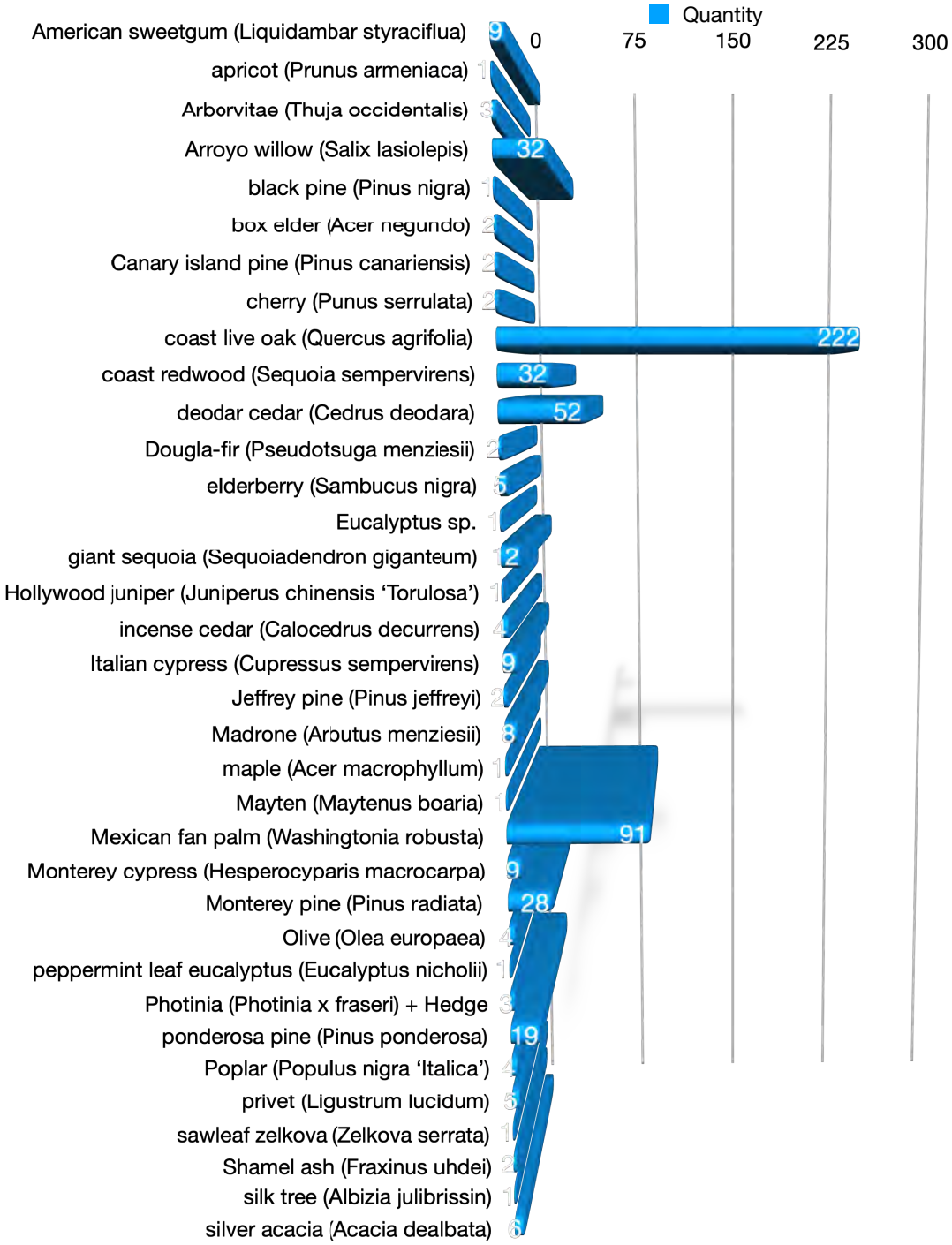
Scotts Valley Considers the following protected trees: "Protected tree" means a standing or upright tree meeting any one of the following:

A. Any tree having a main stem or trunk which measures twenty-five inches or greater in circumference (eight 8 inches in diameter, approximately) measured fifty-four inches above natural grade, located in a hillside residential zone where the slope of the area within twenty feet of where the tree is located exceeds twenty percent;
B. Any tree which existed at the time of any approval granted under any zoning ordinance in effect prior to the adoption of the ordinance codified in this title and which was required to the preserved as part of such approval;
C. Any tree required to be planted as condition of any approval under this title;
D. Any tree that was or is required to be planted as a replacement for any unlawfully removed tree;
E. Any oak tree having a main stem or trunk which measures twenty-five inches or greater in circumference (eight inches diameter, approximately) measure fifty-four inches above natural grade. Any multi-trunk oak with an individual trunk of over twelve inches in circumference (four inches diameter, approximately) measured fifty-four inches above the natural grade;
F. Any street tree, as defined in subsection B.9, regardless of size;
G. Heritage tree, as adopted in a resolution approved by the city council and shown on the map on file in the planning department;
H. All trees which have a forty-inch or greater circumference of any trunk measured fifty-four inches above the natural grade or, in the case of multi-trunk tress, a total of above the natural grade. This provision shall not apply to the following trees: eucalyptus (blue gum), fruit trees and acacias. It also shall not apply to any bay laurel below and located within the drip line of any established oak tree

The inventory contains trees located within the property boundary and those directly adjacent that could be affected. There are 579 trees comprised of 35 different species with coast live oak and Mexican fan palm being the most abundant (Chart 1).

The chart below indicates the species distribution for the inventory (Chart 1).

Chart 1: Species Distribution



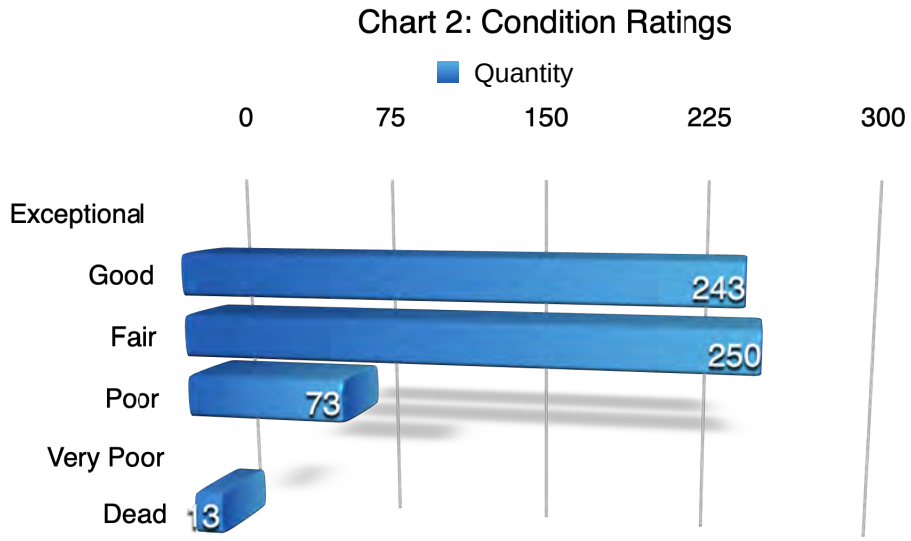
# Discussion

## Condition Rating

A tree's condition is a determination of its overall health, structure, and form. The assessment considered both the health and structure for a combined condition rating.

- 100% - Exceptional = Good health and structure with significant size, location or quality.
- 61-80% - Good = Normal vigor, well-developed structure, function and aesthetics not compromised with good longevity for the site.
- 41-60 % - Fair = Reduced vigor, damage, dieback, or pest problems, at least one significant structural problem or multiple moderate defects requiring treatment. Major asymmetry or deviation from the species normal habit, function and aesthetics compromised.
- 21-40% - Poor = Unhealthy and declining appearance with poor vigor, abnormal foliar color, size or density with potential irreversible decline. One serious structural defect or multiple significant defects that cannot be corrected and failure may occur at any time. Significant asymmetry and compromised aesthetics and intended use.
- 6-20% - Very Poor = Poor vigor and dying with little foliage in irreversible decline. Severe defects with the likelihood of failure being probable or imminent. Aesthetically poor with little or no function in the landscape.
- 0-5% - Dead/Unstable = Dead or imminently ready to fail.

Most of the trees are in good or fair condition with 73 poor and 13 dead. Two-hundred and forty-three (243) were in good condition and two-hundred and fifty-five (250) in fair shape. Most of the trees are growing naturally around the perimeter of the site and primarily consist of coast live



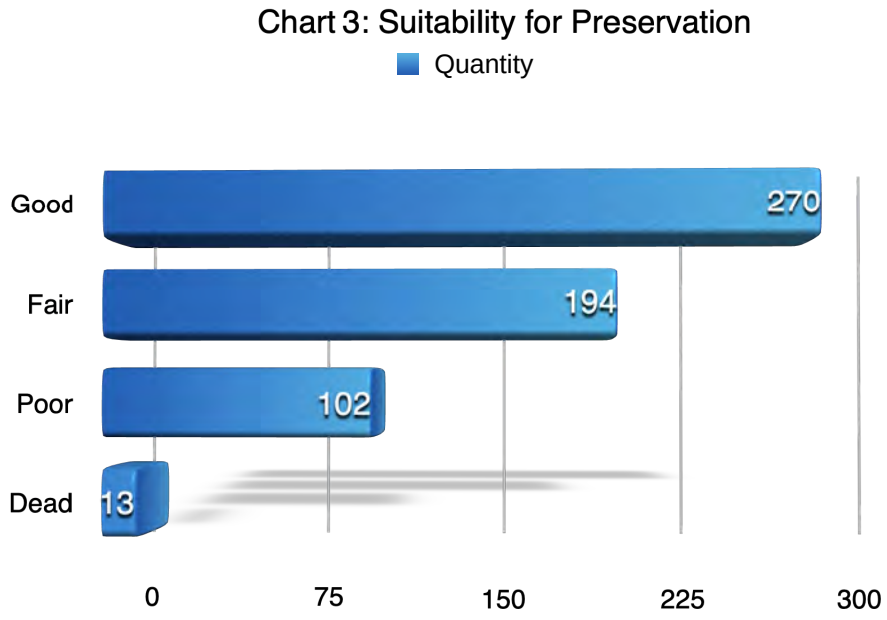

oaks.

## Suitability for Preservation

A tree's suitability for preservation is determined based on its health, structure, age, species and disturbance tolerances, proximity to cutting and filling, proximity to construction or demolition, and potential longevity using a scale of good, fair, or poor (Fite, K, and Smiley, E. T., 2016). The following list defines the rating scale:

- Good = Trees with good health, structural stability and longevity after construction.
- Fair = Trees with fair health and/or structural defects that may be mitigated through treatment. These trees require more intense management and monitoring, before, during, and after construction, and may have shorter life expectancy after development.
- Poor = Trees are expected to decline during or after construction regardless of management. The species or individual may possess characteristics that are incompatible or undesirable in landscape settings or unsuited for the intended use of the site.

Two-hundred and seventy (270) trees have good suitability and one-hundred and ninety-four (194) fair. One hundred and two (102) trees have poor suitability while the remaining five (13) are dead or already removed (Chart 3).

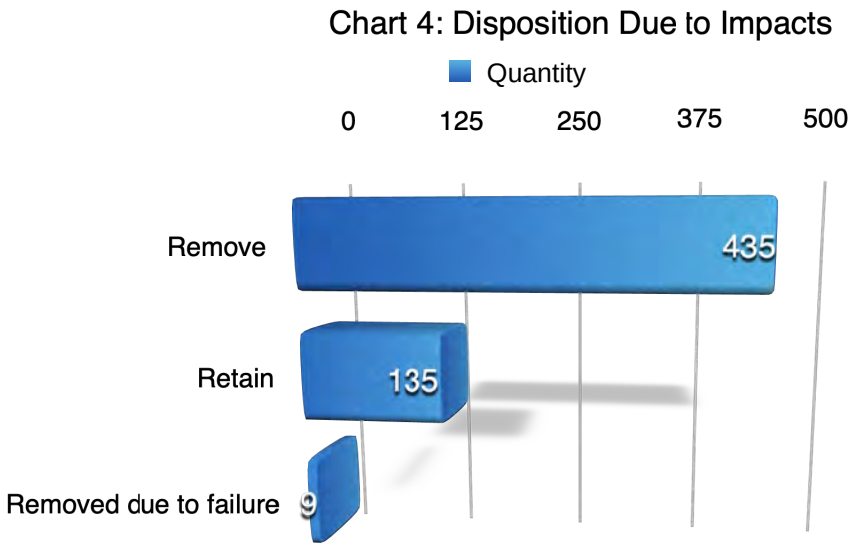


## Expected Impact Level

Impact level defines how a tree may be affected by construction activity and is described as low, moderate, or high. The following scale defines the impact rating:

- Low = The construction activity will have little influence on the tree.
- Moderate = The construction may cause future health or structural problems, and steps must be taken to protect the tree to reduce future problems.
- High = Tree structure and health will be compromised and removal is recommended, or other actions must be taken for the tree to remain. The tree is located in the building envelope.

Four-hundred and thirty-five (435) trees will be highly impacted and caused to be removed. The remaining one-hundred and thirty-five (135) will either be moderately affected or not impacted and are to be retained and protected. Of the trees to be removed fifty-seven (57) are in poor shape, six (6) are not protected acacias, and seventy-one (71) are Mexican fan palms which have been severely overprinted on the site (Chart 4).



## Tree Protection

Tree protection focuses on protection from damage to the roots, trunk, or scaffold branches. The most current accepted method for determining the TPZ is to use a formula based on species tolerance, tree age/vigor, and trunk diameter (Matheny, N. and Clark, J. 1998) (Fite, K, and Smiley, E. T., 2016). Tree protection can be accomplished through barriers such as fence or layers such as bridging over root areas. Preventing mechanical damage to the trunk from equipment or hand tools can be accomplished by wrapping the main stem with straw wattle or using vertical timbers.

Most of the tree protection for this project will encompass large groups of trees and few individuals at a specified radius. Many trees to be retained are located around the perimeter. Once final grading plans are approved or in conjunction with them a a tree protection plan sheet will be developed with input from the project arborist.

# Conclusion

Robson Homes, LLC plans to develop the Valley Gardens Golf Course into a multi-unit residential and commercial site with a centrally located park around the existing pond area. Inventoried were 579 trees comprised of 35 different species with coast live oak (*Quercus agrifolia*) and Mexican fan palm (*Washingtonia robusta*) being the most abundant. Most of the trees are in good or fair condition with forty-two percent (42%) good and forty-five percent (45%) fair. Forty-nine percent (49%) have good suitability for retention and remaining fifty-one percent (51%) either fair, poor or they are dead. Four-hundred and thirty-five (435) trees will be highly impacted and caused to be removed. The remaining one-hundred and thirty-five (135) will either be moderately affected or not impacted and are to be retained and protected. Thirteen trees recently died and some were removed for fire safety, but are included in the total inventory. The remaining one-hundred and forty-two(142) will either be moderately affected or not impacted and are to be retained and protected. Of the trees to be removed one-hundred and seventy (170) consist of over planted Mexican fan palms or trees in poor condition with poor suitability. Most of the tree protection for this project will require encompassing large groups of trees and few individuals at to be determined radii. Many are located around the perimeter.

# Recommendations

After approval of the civil and landscape plans or overall project approval a tree protection plan sheet shall be developed to indicate the locations and types of tree protection to be implemented throughout the pre-construction, construction, landscape phases of the project.

All tree maintenance and care shall be performed by a qualified arborist with a C-61/D-49 California Contractors License. Tree maintenance and care shall be specified in writing according to American National Standard for Tree Care Operations: *Tree, Shrub and Other Woody Plant Management: Standard Practices* parts 1 through 10 and adhere to ANSI Z133.1 safety standards and local regulations.

Refer to Appendix C for general tree protection guidelines including recommendations for arborist assistance while working under trees, trenching, or excavation within a trees drip line.

Provide a copy of this report to all contractors and project managers, including the architect, civil engineer, and landscape designer or architect. It is the responsibility of the owner to ensure all parties are familiar with this document.

Arrange a pre-construction meeting with the project arborist or landscape architect to verify tree protection is in place, with the correct materials, and at the proper distances.

# Bibliography

American National Standard for Tree Care Operations: Tree, Shrub and Other Woody Plant Management : Standard Practices (Management of Trees and Shrubs During Site Planning, Site Development, and Construction)(Part 5). Londonderry, NH: Secretariat, Tree Care Industry Association, 2012. Print.

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# Glossary of Terms

**Diameter at breast height (DBH):** Measures at 1.4 meters (4.5 feet) above ground in the United States, Australia (arboriculture), New Zealand, and when using the Guide for Plant Appraisal, 9th edition; at 1.3 meters (4.3 feet) above ground in Australia (forestry), Canada, the European Union, and in UK forestry; and at 1.5 meters (5 feet) above ground in UK arboriculture.

**Drip Line:** Imaginary line defined by the branch spread or a single plant or group of plants.

**Mechanical damage:** Physical damage caused by outside forces such as cutting, chopping or any mechanized device that may strike the tree trunk, roots or branches.

**Scaffold branches:** Permanent or structural branches that for the scaffold architecture or structure of a tree.

**Straw wattle:** also known as straw worms, bio-logs, straw noodles, or straw tubes are man made cylinders of compressed, weed free straw (wheat or rice), 8 to 12 inches in diameter and 20 to 25 feet long. They are encased in jute, nylon, or other photo degradable materials,
and have an average weight of 35 pounds.

T**ree protection plan sheet:** A technical drawing that depicts the recommendations described in the tree protection report.

**Tree Protection Zone (TPZ):** Defined area within which certain activities are prohibited or restricted to prevent or minimize potential injury to designated trees, especially during construction or development.

**Tree Risk Assessment:** Process of evaluating what unexpected things could happen, how likely it is, and what the likely outcomes are. In tree management, the systematic process to determine the level of risk posed by a tree, tree part, or group of trees.

**Trunk:** Stem of a tree.

**Volunteer:** A tree, not planted by human hands, that begins to grow on residential or commercial property. Unlike trees that are brought in and installed on property, volunteer trees usually spring up on their own from seeds placed onto the ground by natural causes or accidental transport by people. Normally, volunteer trees are considered weeds and removed, but many desirable and attractive specimens have gone on to become permanent residents on many public and private grounds.

# Appendix A: Tree Inventory Map

Due to the size of the map and plan they are not incorporated into this report. Please reference the Tree Disposition Exhibit provided by CEA dated May 6, 2024.

# Appendix B Tree Inventory Tables

Table 1: Tree Inventory Summary

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| cherry (Punus serrulata) | 280 | 9 | 15 | 15 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 281 | 8 | 15 | 10 | Good | Good | Remove |
| Arroyo willow (Salix lasiolepis) | 282 | 14 | 25 | 25 | Poor | Good | Remove |
| Arroyo willow (Salix lasiolepis) | 283 | 14 | 25 | 25 | Poor | Good | Remove |
| Arroyo willow (Salix lasiolepis) | 284 | 14 | 25 | 25 | Poor | Good | Remove |
| Arroyo willow (Salix lasiolepis) | 285 | 14 | 25 | 25 | Poor | Good | Remove |
| Unknown | 286 | 10 | 15 | 15 | Good | Good | Remove |
| Jeffrey pine (*Pinus jeffreyi*) | 468 | 39 | 85 | 50 | Good | Good | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 469 | 12 | 40 | 15 | Fair | Good | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 470 | 13 | 40 | 15 | Fair | Good | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 471 | 15 | 40 | 15 | Fair | Good | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| deodar cedar (*Cedrus deodara*) | 473 | 14 | 35 | 30 | Good | Good | Remove |
| deodar cedar (*Cedrus deodara*) | 474 | 8 | 20 | 20 | Good | Good | Remove |
| American sweetgum (*Liquidambar styraciflua*) | 475 | 16 | 25 | 25 | Dead | Dead | Remove |
| peppermint leaf eucalyptus (*Eucalyptus nicholii*) | 476 | 14 | 25 | 25 | Dead | Dead | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 477 | 16 | 45 | 15 | Fair | Poor | Remove |
| Monterey pine (*Pinus radiata*) | 478 | 17 | 30 | 25 | Poor | Poor | Remove |
| deodar cedar (*Cedrus deodara*) | 479 | 11 | 25 | 20 | Poor | Poor | Remove |
| deodar cedar (*Cedrus deodara*) | 480 | 10 | 25 | 20 | Fair | Good | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 481 | 16 | 45 | 15 | Poor | Poor | Remove |
| deodar cedar (*Cedrus deodara*) | 482 | 30 | 75 | 55 | Fair | Fair | Remove |
| Monterey pine (*Pinus radiata*) | 483 | 44 | 75 | 75 | Fair | Poor | Remove |
| deodar cedar (*Cedrus deodara*) | 484 | 24 | 45 | 45 | Poor | Poor | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| deodar cedar (*Cedrus deodara*) | 485 | 30 | 45 | 45 | Poor | Poor | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 486 | 20 | 65 | 15 | Fair | Poor | Remove |
| Canary island pine (*Pinus canariensis*) | 487 | 58 | 85 | 65 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 488 | 19 | 65 | 15 | Good | Poor | Remove |
| deodar cedar (*Cedrus deodara*) | 489 | 25 | 75 | 45 | Fair | Poor | Remove |
| Olive (*Olea europaea*) | 490 | 9, 9 | 25 | 25 | Fair | Poor | Remove |
| Mayten (*Maytenus boaria*) | 491 | 15 | 25 | 25 | Good | Poor | Remove |
| American sweetgum (*Liquidambar styraciflua*) | 492 | 15 | 25 | 25 | Good | Fair | Remove |
| deodar cedar (*Cedrus deodara*) | 493 | 16 | 55 | 45 | Fair | Fair | Remove |
| Monterey pine (*Pinus radiata*) | 494 | 16, 30, 27 | 75 | 65 | Fair | Poor | Remove |
| Monterey pine (*Pinus radiata*) | 495 | 36 | 75 | 55 | Fair | Poor | Remove |
| deodar cedar (*Cedrus deodara*) | 496 | 19 | 55 | 35 | Fair | Fair | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| American sweetgum (*Liquidambar styraciflua*) | 497 | 16 | 55 | 35 | Good | Good | Remove |
| Canary island pine (*Pinus canariensis*) | 498 | 38 | 75 | 35 | Fair | Fair | Remove |
| Olive (*Olea europaea*) | 499 | 8,5 | 15 | 15 | Fair | Poor | Remove |
| Olive (*Olea europaea*) | 500 | Multi 6, 4,4, 4, 4 | 15 | 15 | Poor | Poor | Remove |
| giant sequoia (*Sequoiadendron giganteum*) | 501 | 25 | 40 | 20 | Good | Good | Remove |
| giant sequoia (*Sequoiadendron giganteum*) | 502 | 33 | 40 | 20 | Good | Good | Remove |
| deodar cedar (*Cedrus deodara*) | 503 | 15 | 35 | 20 | Good | Good | Remove |
| deodar cedar (*Cedrus deodara*) | 504 | 25 | 55 | 50 | Good | Good | Remove |
| deodar cedar (*Cedrus deodara*) | 505 | 23 | 55 | 50 | Fair | Fair | Remove |
| deodar cedar (*Cedrus deodara*) | 506 | 32.5 | 55 | 50 | Fair | Fair | Remove |
| deodar cedar (*Cedrus deodara*) | 507 | 28 | 55 | 50 | Fair | Fair | Remove |
| deodar cedar (*Cedrus deodara*) | 508 | 29.5 | 55 | 50 | Good | Good | Retain |
| deodar cedar (*Cedrus deodara*) | 509 | 37 | 55 | 50 | Good | Good | Retain |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| deodar cedar (*Cedrus deodara*) | 510 | 33 | 55 | 50 | Good | Good | Remove |
| deodar cedar (*Cedrus deodara*) | 511 | 30 | 55 | 50 | Good | Good | Retain |
| Monterey cypress (*Hesperocyparis macrocarpa*) | 512 | 55 | 55 | 50 | Fair | Fair | Remove |
| deodar cedar (*Cedrus deodara*) | 513 | 25.5 | 55 | 45 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 514 | 14, 20 | 65 | 20 | Fair | Fair | Retain |
| Mexican fan palm (*Washingtonia robusta*) | 515 | 15, 15 | 65 | 20 | Fair | Fair | Retain |
| Mexican fan palm (*Washingtonia robusta*) | 516 | 15, 15 | 65 | 20 | Fair | Fair | Retain |
| Mexican fan palm (*Washingtonia robusta*) | 517 | 18, 18 | 65 | 20 | Fair | Fair | Retain |
| Mexican fan palm (*Washingtonia robusta*) | 518 | 17, 17 | 65 | 20 | Fair | Fair | Retain |
| Mexican fan palm (*Washingtonia robusta*) | 519 | 18, 18 | 65 | 20 | Fair | Fair | Retain |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| Mexican fan palm (*Washingtonia robusta*) | 520 | 17, 17 | 65 | 20 | Fair | Fair | Retain |
| Mexican fan palm (*Washingtonia robusta*) | 521 | 17 | 65 | 20 | Good | Good | Retain |
| Mexican fan palm (*Washingtonia robusta*) | 522 | 19 | 65 | 20 | Good | Good | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 523 | 18, 18 | 65 | 20 | Fair | Fair | Retain |
| Mexican fan palm (*Washingtonia robusta*) | 524 | 17 | 65 | 20 | Fair | Fair | Retain |
| Mexican fan palm (*Washingtonia robusta*) | 525 | 17, 17 | 65 | 20 | Fair | Fair | Retain |
| Mexican fan palm (*Washingtonia robusta*) | 526 | 17, 18 | 65 | 20 | Fair | Fair | Retain |
| Mexican fan palm (*Washingtonia robusta*) | 527 | 17, 15 | 65 | 20 | Fair | Fair | Retain |
| deodar cedar (*Cedrus deodara*) | 528 | 23 | 65 | 20 | Good | Good | Remove |
| deodar cedar (*Cedrus deodara*) | 529 | 28 | 65 | 40 | Good | Good | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| deodar cedar (*Cedrus deodara*) | 530 | 36 | 65 | 40 | Good | Good | Remove |
| deodar cedar (*Cedrus deodara*) | 531 | 36 | 65 | 40 | Good | Good | Remove |
| giant sequoia (*Sequoiadendron giganteum*) | 532 | 21 | 55 | 45 | Good | Good | Remove |
| giant sequoia (*Sequoiadendron giganteum*) | 533 | 28 | 55 | 45 | Good | Good | Remove |
| giant sequoia (*Sequoiadendron giganteum*) | 534 | 57 | 55 | 45 | Good | Good | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 535 | 15 | 55 | 20 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 536 | 30, 20 | 45 | 45 | Fair | Fair | Retain |
| cherry (*Punus serrulata*) | 537 | 27 | 25 | 40 | Good | Good | Remove |
| deodar cedar (*Cedrus deodara*) | 538 | 23 | 45 | 40 | Good | Good | Remove |
| deodar cedar (*Cedrus deodara*) | 539 | 34 | 45 | 40 | Good | Good | Remove |
| giant sequoia (*Sequoiadendron giganteum*) | 540 | 39.5 | 45 | 40 | Good | Good | Remove |
| deodar cedar (*Cedrus deodara*) | 541 | 31 | 45 | 40 | Good | Good | Remove |
| deodar cedar (*Cedrus deodara*) | 542 | 21 | 45 | 40 | Good | Good | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| giant sequoia (*Sequoiadendron giganteum*) | 543 | 39 | 45 | 40 | Good | Good | Remove |
| giant sequoia (*Sequoiadendron giganteum*) | 544 | 29 | 45 | 40 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 545 | 42 | 50 | 80 | Fair | Fair | Retain |
| deodar cedar (*Cedrus deodara*) | 546 | 25 | 45 | 35 | Fair | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 547 | 26, 24 | 50 | 50 | Fair | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 548 | 19, 19, 11 | 45 | 45 | Poor | Poor | Remove |
| coast live oak (*Quercus agrifolia*) | 549 | 37 | 50 | 45 | Good | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 550 | 36 | 45 | 45 | Good | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 551 | 26.5 | 45 | 45 | Fair | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 552 | 20 | 45 | 45 | Fair | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 553 | 21.5 | 45 | 45 | Good | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 554 | 30 | 45 | 45 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 555 | 31.5 | 45 | 45 | Good | Good | Retain |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| deodar cedar (*Cedrus deodara*) | 556 | 29 | 55 | 35 | Fair | Fair | Remove |
| deodar cedar (*Cedrus deodara*) | 557 | 28 | 55 | 35 | Fair | Fair | Remove |
| deodar cedar (*Cedrus deodara*) | 558 | 26 | 55 | 35 | Fair | Fair | Remove |
| deodar cedar (*Cedrus deodara*) | 559 | 20 | 55 | 35 | Fair | Fair | Remove |
| deodar cedar (*Cedrus deodara*) | 560 | 24.5 | 55 | 35 | Fair | Fair | Remove |
| deodar cedar (*Cedrus deodara*) | 561 | 23.5 | 55 | 35 | Fair | Fair | Remove |
| deodar cedar (*Cedrus deodara*) | 562 | 21 | 55 | 35 | Fair | Fair | Remove |
| deodar cedar (*Cedrus deodara*) | 563 | 30 | 55 | 45 | Good | Good | Retain |
| deodar cedar (*Cedrus deodara*) | 564 | 16 | 45 | 40 | Fair | Fair | Remove |
| deodar cedar (*Cedrus deodara*) | 565 | 22 | 45 | 40 | Fair | Fair | Remove |
| deodar cedar (*Cedrus deodara*) | 566 | 20 | 45 | 40 | Fair | Fair | Remove |
| deodar cedar (*Cedrus deodara*) | 567 | 22 | 45 | 40 | Good | Good | Remove |
| coast redwood (*Sequoia sempervirens*) | 568 | 36, 36 | 65 | 40 | Fair | Fair | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| Dougla-fir (*Pseudotsuga menziesii*) | 569 | 34 | 45 | 45 | Fair | Fair | Remove |
| giant sequoia (*Sequoiadendron giganteum*) | 570 | 34 | 50 | 40 | Good | Good | Retain |
| giant sequoia (*Sequoiadendron giganteum*) | 571 | 29 | 50 | 40 | Good | Good | Retain |
| giant sequoia (*Sequoiadendron giganteum*) | 572 | 55 | 50 | 40 | Good | Good | Retain |
| coast redwood (*Sequoia sempervirens*) | 601 | 36 | 35 | 35 | Good | Good | Retain |
| coast redwood (*Sequoia sempervirens*) | 602 | 36 | 65 | 35 | Good | Good | Retain |
| Hollywood juniper (*Juniperus chinensis* 'Torulosa') | 603 | 14 | 15 | 25 | Fair | Poor | Remove |
| coast redwood (*Sequoia sempervirens*) | 604 | 20 | 55 | 30 | Good | Fair | Remove |
| coast redwood (*Sequoia sempervirens*) | 605 | 24 | 55 | 30 | Good | Fair | Remove |
| coast redwood (*Sequoia sempervirens*) | 606 | 32 | 65 | 35 | Good | Good | Retain |
| coast redwood (*Sequoia sempervirens*) | 607 | 34 | 65 | 35 | Good | Good | Retain |
| coast redwood (*Sequoia sempervirens*) | 608 | 34 | 65 | 35 | Good | Good | Retain |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| coast redwood (*Sequoia sempervirens*) | 609 | 18 | 65 | 35 | Good | Good | Retain |
| coast redwood (*Sequoia sempervirens*) | 610 | 18 | 65 | 35 | Good | Good | Retain |
| coast redwood (*Sequoia sempervirens*) | 611 | 20 | 65 | 35 | Good | Good | Retain |
| coast redwood (*Sequoia sempervirens*) | 612 | 12 | 45 | 30 | Good | Good | Retain |
| coast redwood (*Sequoia sempervirens*) | 613 | 16 | 45 | 30 | Good | Good | Retain |
| coast redwood (*Sequoia sempervirens*) | 614 | 22 | 45 | 30 | Good | Good | Retain |
| coast redwood (*Sequoia sempervirens*) | 615 | 18 | 45 | 30 | Good | Good | Retain |
| coast redwood (*Sequoia sempervirens*) | 616 | 9 | 45 | 30 | Good | Good | Retain |
| coast redwood (*Sequoia sempervirens*) | 617 | 18 | 45 | 30 | Good | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 618 | 8 | 20 | 5 | Fair | Poor | Remove |
| Monterey pine (*Pinus radiata*) | 619 | 20 | 45 | 40 | Dead | Dead | Remove |
| coast live oak (*Quercus agrifolia*) | 620 | 10 | 25 | 25 | Fair | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 621 | 13, 18 | 35 | 35 | Fair | Fair | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| coast live oak (*Quercus agrifolia*) | 622 | 10 | 30 | 25 | Good | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 623 | 10 | 30 | 25 | Fair | Poor | Retain |
| coast live oak (*Quercus agrifolia*) | 624 | 10 | 30 | 25 | Fair | Poor | Retain |
| Mexican fan palm (*Washingtonia robusta*) | 625 | 21 | 45 | 12 | Good | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 626 | 21 | 55 | 12 | Good | Fair | Remove |
| Monterey pine (*Pinus radiata*) | 627 | 12, 12 | 65 | 40 | Poor | Poor | Remove |
| Shamel ash (*Fraxinus uhdei*) | 628 | 17 | 45 | 35 | Poor | Poor | Remove |
| Shamel ash (*Fraxinus uhdei*) | 629 | 17 | 45 | 35 | Fair | Fair | Remove |
| Monterey pine (*Pinus radiata*) | 630 | 19 | 55 | 35 | Poor | Poor | Remove |
| box elder (*Acer negundo*) | 631 | 13 | 45 | 35 | Good | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 632 | 15 | 45 | 12 | Good | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 633 | 15 | 45 | 12 | Good | Fair | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| Mexican fan palm (*Washingtonia robusta*) | 634 | 16 | 45 | 12 | Good | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 635 | 24 | 45 | 12 | Good | Fair | Remove |
| coast redwood (*Sequoia sempervirens*) | 636 | 15 | 45 | 35 | Good | Good | Retain |
| coast redwood (*Sequoia sempervirens*) | 637 | 24 | 55 | 40 | Good | Good | Retain |
| Monterey pine (*Pinus radiata*) | 638 | 14 | 45 | 40 | Good | Good | Retain |
| Monterey pine (*Pinus radiata*) | 639 | 24 | 45 | 30 | Good | Poor | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 640 | 14 | 45 | 12 | Fair | Poor | Remove |
| Monterey pine (*Pinus radiata*) | 641 | 31 | 75 | 45 | Good | Fair | Remove |
| Monterey pine (*Pinus radiata*) | 642 | 32 | 75 | 45 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 643 | 18 | 45 | 12 | Good | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 644 | 14 | 35 | 12 | Good | Fair | Remove |
| Arroyo willow (*Salix lasiolepis*) | 645 | 15 | 35 | 35 | Fair | Fair | Retain |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| Arroyo willow (*Salix lasiolepis*) | 646 | 15 | 35 | 35 | Fair | Fair | Retain |
| Arroyo willow (*Salix lasiolepis*) | 647 | 15 | 35 | 35 | Fair | Fair | Retain |
| Arroyo willow (*Salix lasiolepis*) | 648 | 15 | 35 | 35 | Fair | Fair | Retain |
| coast live oak (*Quercus agrifolia*) | 649 | 8 | 25 | 20 | Good | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 650 | 12, 7 | 35 | 35 | Good | Good | Retain |
| Olive (*Olea europaea*) | 651 | 8, 8, 7 | 25 | 20 | Poor | Poor | Remove |
| deodar cedar (*Cedrus deodara*) | 652 | 23 | 55 | 45 | Fair | Fair | Remove |
| Monterey pine (*Pinus radiata*) | 653 | 42 | 75 | 50 | Dead | Dead | Remove |
| deodar cedar (*Cedrus deodara*) | 654 | 16 | 35 | 30 | Poor | Poor | Remove |
| deodar cedar (*Cedrus deodara*) | 655 | 28 | 75 | 50 | Good | Good | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 656 | 26 | 45 | 12 | Good | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 657 | 16 | 45 | 12 | Good | Fair | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| Mexican fan palm (*Washingtonia robusta*) | 658 | 15 | 45 | 12 | Good | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 659 | 17 | 45 | 12 | Good | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 660 | 15 | 45 | 12 | Good | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 661 | 14 | 20 | 12 | Good | Fair | Remove |
| Monterey pine (*Pinus radiata*) | 662 | 46 | 85 | 55 | Fair | Poor | Remove |
| silk tree (*Albizia julibrissin*) | 663 | 17 | 35 | 35 | Good | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 664 | 16 | 55 | 12 | Good | Poor | Retain |
| coast redwood (*Sequoia sempervirens*) | 665 | 36 | 75 | 45 | Good | Fair | Retain |
| coast live oak (*Quercus agrifolia*) | 666 | 12, 10 | 35 | 35 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 667 | 18 | 40 | 12 | Good | Fair | Retain |
| Mexican fan palm (*Washingtonia robusta*) | 668 | 19 | 40 | 12 | Good | Fair | Retain |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| box elder (*Acer negundo*) | 669 | 16 | 35 | 30 | Fair | Fair | Retain |
| coast redwood (*Sequoia sempervirens*) | 670 | 24 | 25 | 25 | Poor | Poor | Retain |
| coast live oak (*Quercus agrifolia*) | 671 | 11 | 25 | 25 | Good | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 672 | 10, 6 | 25 | 25 | Good | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 673 | 12 | 25 | 25 | Good | Good | Retain |
| Mexican fan palm (*Washingtonia robusta*) | 674 | 15 | 40 | 12 | Good | Fair | Retain |
| Mexican fan palm (*Washingtonia robusta*) | 675 | 15 | 45 | 12 | Good | Fair | Retain |
| Mexican fan palm (*Washingtonia robusta*) | 676 | 17 | 50 | 12 | Good | Fair | Retain |
| Mexican fan palm (*Washingtonia robusta*) | 677 | 16 | 35 | 12 | Good | Fair | Retain |
| Mexican fan palm (*Washingtonia robusta*) | 678 | 18 | 50 | 12 | Good | Fair | Retain |
| deodar cedar (*Cedrus deodara*) | 679 | 24 | 55 | 45 | Good | Good | Retain |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| Arroyo willow (Salix lasiolepis) | 680 | 19 | 35 | 35 | Poor | Poor | Prior Removal |
| coast live oak (*Quercus agrifolia*) | 681 | 8 | 20 | 15 | Poor | Poor | Retain |
| coast live oak (*Quercus agrifolia*) | 682 | 12, 12 | 35 | 35 | Poor | Poor | Retain |
| coast live oak (*Quercus agrifolia*) | 683 | 30 | 55 | 55 | Fair | Fair | Retain |
| coast live oak (*Quercus agrifolia*) | 684 | 10, 16 | 35 | 35 | Poor | Poor | Retain |
| coast live oak (*Quercus agrifolia*) | 685 | 13, 13 | 35 | 30 | Fair | Fair | Retain |
| coast live oak (*Quercus agrifolia*) | 686 | 15 | 35 | 35 | Fair | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 687 | 20 | 35 | 35 | Fair | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 688 | 16, 19, 22 | 55 | 55 | Fair | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 689 | 15 | 35 | 30 | Fair | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 690 | 14, 9 | 40 | 30 | Fair | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 691 | 9 | 30 | 25 | Fair | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 692 | 8 | 25 | 15 | Poor | Poor | Retain |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| coast live oak (*Quercus agrifolia*) | 693 | 30 | 55 | 55 | Fair | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 694 | 8 | 20 | 20 | Fair | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 695 | 21 | 45 | 45 | Fair | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 696 | 13 | 45 | 25 | Fair | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 697 | 30 | 55 | 55 | Fair | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 698 | 36 | 55 | 45 | Fair | Good | Retain |
| Photinia (*Photinia x fraseri*) | 699 | Multi-4 | 25 | 25 | Poor | Poor | Remove |
| Photinia (*Photinia x fraseri*) | 700 | Multi-3 | 25 | 25 | Poor | Poor | Remove |
| coast redwood (*Sequoia sempervirens*) | 701 | 30 | 75 | 40 | Fair | Good | Retain |
| coast redwood (*Sequoia sempervirens*) | 702 | 24 | 75 | 40 | Fair | Good | Retain |
| coast redwood (*Sequoia sempervirens*) | 703 | 30 | 75 | 40 | Fair | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 704 | 8 | 25 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 705 | 12 | 35 | 30 | Good | Good | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| coast live oak (*Quercus agrifolia*) | 706 | 6, 6, 6, 6 | 25 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 707 | 8, 8, 8, 6 | 25 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 708 | 18 | 35 | 35 | Good | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 709 | 9 | 25 | 20 | Good | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 710 | 16 | 30 | 30 | Good | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 712 | 30 | 45 | 45 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 713 | 48 | 45 | 35 | Fair | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 714 | 28 | 35 | 35 | Good | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 715 | 44 | 35 | 35 | Fair | Good | Retain |
| silver acacia (*Acacia dealbata*) | 716 | 14 | 35 | 35 | Good | Poor | Remove |
| silver acacia (*Acacia dealbata*) | 717 | 10, 10 | 35 | 35 | Good | Poor | Remove |
| silver acacia (*Acacia dealbata*) | 718 | 10 | 35 | 35 | Good | Poor | Remove |
| silver acacia (*Acacia dealbata*) | 719 | 20 | 35 | 35 | Good | Poor | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| silver acacia (*Acacia dealbata*) | 720 | 20, 6 | 35 | 35 | Good | Poor | Remove |
| coast live oak (*Quercus agrifolia*) | 721 | 8 | 20 | 20 | Good | Good | Remove |
| silver acacia (*Acacia dealbata*) | 722 | 30 | 35 | 35 | Poor | Poor | Remove |
| coast live oak (*Quercus agrifolia*) | 723 | 26 | 45 | 35 | Good | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 724 | 10 | 35 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 725 | 6, 6 | 25 | 25 | Good | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 726 | 13, 10 | 25 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 727 | 20, 20 | 45 | 35 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 728 | 17 | 25 | 12 | Fair | Poor | Retain |
| coast live oak (*Quercus agrifolia*) | 729 | 21, 24 | 35 | 35 | Fair | Fair | Remove |
| Ponderosa pine (*Pinus ponderosa*) | 730 | 20 | 25 | 25 | Poor | Poor | Remove |
| coast live oak (*Quercus agrifolia*) | 731 | 12 | 25 | 25 | Good | Good | Retain |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| coast live oak (*Quercus agrifolia*) | 732 | 8 | 20 | 20 | Good | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 733 | 8 | 20 | 20 | Good | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 734 | 19 | 35 | 35 | Fair | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 735 | 14, 18 | 35 | 35 | Fair | Fair | Retain |
| coast live oak (*Quercus agrifolia*) | 736 | 24, 18, 22 | 35 | 35 | Fair | Fair | Retain |
| coast live oak (*Quercus agrifolia*) | 737 | 20, 26 | 45 | 45 | Good | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 738 | 38 | 45 | 45 | Fair | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 739 | 56 | 45 | 45 | Fair | Fair | Retain |
| coast live oak (*Quercus agrifolia*) | 740 | 8, 12, 10, 10, 6, 4, 4 | 35 | 35 | Fair | Fair | Remove |
| Ponderosa pine (*Pinus ponderosa*) | 741 | 28 | 65 | 35 | Good | Good | Remove |
| Ponderosa pine (*Pinus ponderosa*) | 742 | 17 | 55 | 35 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 743 | 16 | 40 | 30 | Good | Good | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| American sweet gum (*Liquidambar styraciflua*) | 744 | 15 | 55 | 25 | Poor | Poor | Remove |
| maple (*Acer macrophyllum*) | 745 | 30 | 65 | 20 | Poor | Poor | Remove |
| coast live oak (*Quercus agrifolia*) | 746 | 30 | 55 | 45 | Fair | Good | Remove |
| incense cedar (*Calocedrus decurrens*) | 747 | 14 | 65 | 30 | Fair | Fair | Remove |
| incense cedar (*Calocedrus decurrens*) | 748 | 19 | 65 | 30 | Fair | Fair | Remove |
| Poplar (*Populus nigra* 'Italica') | 749 | 64 X 24 | 85 | 45 | Poor | Poor | Removed due to failure |
| coast live oak (*Quercus agrifolia*) | 750 | 8 Multi | 35 | 45 | Fair | Poor | Remove |
| coast live oak (*Quercus agrifolia*) | 751 | 12 | 35 | 35 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 752 | 12 | 35 | 5 | Fair | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 753 | 19, 19 | 65 | 55 | Fair | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 754 | 26 | 55 | 45 | Fair | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 755 | 26 | 55 | 55 | Poor | Poor | Remove |
| coast live oak (*Quercus agrifolia*) | 756 | 9 | 55 | 55 | Fair | Fair | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| coast live oak (*Quercus agrifolia*) | 757 | 12 | 25 | 20 | Poor | Poor | Remove |
| coast live oak (*Quercus agrifolia*) | 758 | 24 | 25 | 20 | Fair | Poor | Remove |
| coast live oak (*Quercus agrifolia*) | 759 | 16 | 45 | 35 | Fair | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 760 | 20 | 45 | 35 | Fair | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 761 | 12, 8, 13 | 45 | 35 | Fair | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 762 | 16 | 45 | 35 | Fair | Good | Remove |
| Ponderosa pine (*Pinus ponderosa*) | 763 | 36 | 85 | 45 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 764 | 20 | 35 | 35 | Fair | Good | Remove |
| Ponderosa pine (*Pinus ponderosa*) | 765 | 20 | 85 | 40 | Good | Good | Remove |
| Ponderosa pine (*Pinus ponderosa*) | 766 | 24 | 85 | 40 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 767 | 8 | 30 | 20 | Good | Good | Remove |
| madrone (*Arbutus menziesii*) | 768 | 16,14 | 35 | 35 | Dead | Dead | Remove |
| coast live oak (*Quercus agrifolia*) | 769 | 9 | 35 | 25 | Fair | Good | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| madrone (*Arbutus menziesii*) | 770 | 8, 8 | 35 | 30 | Fair | Fair | Remove |
| madrone (*Arbutus menziesii*) | 771 | 6, 8 | 35 | 30 | Fair | Fair | Remove |
| madrone (*Arbutus menziesii*) | 772 | 10, 6 | 35 | 30 | Fair | Fair | Remove |
| Ponderosa pine (*Pinus ponderosa*) | 773 | 44 | 85 | 50 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 774 | 8, 8 | 25 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 775 | 8, 8 | 25 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 776 | 8 | 25 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 777 | 13 | 35 | 30 | Fair | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 778 | 8 | 25 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 779 | 10 | 25 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 780 | 10 | 25 | 25 | Fair | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 781 | 10 | 25 | 25 | Fair | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 782 | 10 | 25 | 25 | Fair | Good | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| coast live oak (*Quercus agrifolia*) | 783 | 12 | 35 | 25 | Fair | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 784 | 8 | 25 | 25 | Poor | Poor | Remove |
| coast live oak (*Quercus agrifolia*) | 785 | 8 | 25 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 786 | 10 | 25 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 787 | 8 | 25 | 25 | Good | Good | Remove |
| Ponderosa pine (*Pinus ponderosa*) | 788 | 24 | 85 | 40 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 789 | 12 | 35 | 25 | Fair | Good | Remove |
| Ponderosa pine (*Pinus ponderosa*) | 790 | 18 | 85 | 35 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 791 | 12 | 35 | 25 | Fair | Good | Remove |
| Ponderosa pine (*Pinus ponderosa*) | 792 | 21 | 85 | 35 | Good | Good | Remove |
| Ponderosa pine (*Pinus ponderosa*) | 793 | 44 | 85 | 45 | Fair | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 794 | 18 | 45 | 35 | Poor | Poor | Remove |
| coast live oak (*Quercus agrifolia*) | 795 | 12, 12, 16 | 45 | 45 | Fair | Fair | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| madrone (*Arbutus menziesii*) | 796 | 13 | 35 | 30 | Fair | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 797 | 9 | 35 | 20 | Fair | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 798 | 16 | 35 | 35 | Fair | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 799 | 24 | 25 | 25 | Poor | Poor | Retain |
| coast live oak (*Quercus agrifolia*) | 800 | 10, 8, 8 | 25 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 801 | 10, 10, 12 | 25 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 802 | 10 | 25 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 803 | 10 | 25 | 25 | Good | Good | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 804 | 16 | 55 | 12 | Fair | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 805 | 12, 12, 12 | 35 | 35 | Fair | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 806 | 10 | 35 | 35 | Fair | Good | Remove |
| Ponderosa pine (*Pinus ponderosa*) | 807 | 44 | 85 | 45 | Good | Good | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| Arroyo willow (*Salix lasiolepis*) | 808 | 10, 10 | 35 | 30 | Poor | Poor | Remove |
| coast live oak (*Quercus agrifolia*) | 809 | 14 | 35 | 35 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 810 | 8 | 25 | 20 | Fair | Good | Retain |
| Ponderosa pine (*Pinus ponderosa*) | 811 | 36 | 85 | 45 | Good | Good | Remove |
| incense cedar (*Calocedrus decurrens*) | 812 | 24 | 65 | 45 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 813 | 15, 12, 10, 10 | 55 | 45 | Fair | Good | Remove |
| Monterey pine (*Pinus radiata*) | 814 | 54 | 85 | 45 | Fair | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 815 | 8 | 25 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 816 | 8 | 25 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 817 | 10 | 25 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 818 | 10 | 25 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 819 | 12 | 25 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 820 | 12 | 25 | 25 | Good | Good | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| coast live oak (*Quercus agrifolia*) | 821 | 14 | 35 | 30 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 822 | 8, 5 | 25 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 823 | 8, 5 | 25 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 824 | 14 | 35 | 30 | Fair | Fair | Remove |
| Ponderosa pine (*Pinus ponderosa*) | 825 | 36 | 75 | 40 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 826 | 26 | 55 | 55 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 827 | 28 | 55 | 55 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 828 | 17, 19 | 55 | 55 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 829 | 10, 10 | 35 | 30 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 830 | 6, 8 | 25 | 20 | Good | Good | Retain |
| coast redwood (*Sequoia sempervirens*) | 831 | 12, 12, 12, 14, 14 | 65 | 35 | Fair | Fair | Retain |
| coast redwood (*Sequoia sempervirens*) | 832 | 18 | 65 | 35 | Fair | Fair | Retain |
| coast redwood (*Sequoia sempervirens*) | 833 | 14, 20 | 65 | 35 | Fair | Fair | Retain |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| coast live oak (*Quercus agrifolia*) | 834 | 10 | 35 | 25 | Fair | Fair | Retain |
| coast live oak (*Quercus agrifolia*) | 835 | 8 | 35 | 25 | Fair | Fair | Retain |
| Monterey pine (*Pinus radiata*) | 836 | 44 | 85 | 55 | Fair | Fair | Remove |
| deodar cedar (*Cedrus deodara*) | 837 | 16 | 45 | 40 | Fair | Fair | Retain |
| coast redwood (*Sequoia sempervirens*) | 838 | 65 | 85 | 45 | Fair | Fair | Retain |
| sawleaf zelkova (*Zelkova serrata*) | 839 | 22 | 45 | 45 | Good | Good | Remove |
| Poplar (*Populus nigra* 'Italica') | 840 | 15 | 65 | 25 | Fair | Fair | Remove |
| Poplar (*Populus nigra* 'Italica') | 841 | 17 | 65 | 25 | Fair | Fair | Remove |
| Ponderosa pine (*Pinus ponderosa*) | 842 | 15 | 35 | 35 | Poor | Poor | Remove |
| coast redwood (*Sequoia sempervirens*) | 843 | 21 | 35 | 30 | Dead | Dead | Remove |
| coast live oak (*Quercus agrifolia*) | 844 | 12 | 35 | 30 | Good | Good | Remove |
| Arroyo willow (*Salix lasiolepis*) | 845 | 12 | 35 | 30 | Good | Good | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 846 | 16 | 35 | 12 | Good | Fair | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| Arroyo willow (*Salix lasiolepis*) | 847 | 14, 10, 12 | 35 | 35 | Fair | Fair | Remove |
| Arroyo willow (*Salix lasiolepis*) | 848 | 15 | 25 | 25 | Poor | Poor | Remove |
| Arroyo willow (*Salix lasiolepis*) | 849 | 24 | 25 | 25 | Poor | Poor | Remove |
| deodar cedar (*Cedrus deodara*) | 850 | 24 | 25 | 25 | Poor | Poor | Remove |
| coast live oak (*Quercus agrifolia*) | 851 | 17 | 35 | 30 | Fair | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 852 | 12 | 35 | 30 | Poor | Poor | Remove |
| coast live oak (*Quercus agrifolia*) | 853 | 11 | 35 | 30 | Fair | Fair | Remove |
| Monterey cypress (*Hesperocypari s macrocarpa*) | 854 | 26 | 35 | 35 | Fair | Fair | Remove |
| Monterey cypress (*Hesperocypari s macrocarpa*) | 855 | 33 | 35 | 35 | Fair | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 856 | 16 | 45 | 35 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 857 | 11 | 35 | 30 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 858 | 16 | 35 | 30 | Good | Good | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| coast live oak (*Quercus agrifolia*) | 859 | 14, 10 | 35 | 30 | Good | Good | Remove |
| deodar cedar (*Cedrus deodara*) | 860 | 6, 6, 3 | 15 | 15 | Fair | Poor | Remove |
| coast live oak (*Quercus agrifolia*) | 861 | 11, 10 | 25 | 20 | Fair | Good | Remove |
| Monterey pine (*Pinus radiata*) | 862 | 24 | 65 | 25 | Fair | Fair | Remove |
| Monterey pine (*Pinus radiata*) | 863 | 13 | 45 | 20 | Fair | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 864 | 14 | 35 | 30 | Good | Good | Remove |
| Monterey pine (*Pinus radiata*) | 865 | 56 | 75 | 45 | Fair | Poor | Remove |
| coast live oak (*Quercus agrifolia*) | 866 | 12 | 35 | 35 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 867 | 13 | 35 | 35 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 868 | 14 | 35 | 35 | Good | Good | Remove |
| Monterey cypress (*Hesperocyparis macrocarpa*) | 869 | 28 | 45 | 45 | Fair | Fair | Remove |
| Monterey cypress (*Hesperocyparis macrocarpa*) | 870 | 36 | 45 | 45 | Fair | Fair | Remove |
| Monterey cypress (*Hesperocyparis macrocarpa*) | 871 | 36 | 45 | 45 | Fair | Fair | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| Monterey cypress (*Hesperocyparis macrocarpa*) | 872 | 32 | 45 | 45 | Fair | Fair | Remove |
| Monterey pine (*Pinus radiata*) | 873 | 44 | 75 | 65 | Dead | Dead | Removed for fire safety |
| American sweet gum (*Liquidambar styraciflua*) | 874 | 13 | 45 | 25 | Fair | Fair | Remove |
| American sweet gum (*Liquidambar styraciflua*) | 875 | 19 | 45 | 25 | Fair | Fair | Remove |
| Arroyo willow (*Salix lasiolepis*) | 876 | 24 | 25 | 25 | Dead | Dead | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 877 | 16 | 45 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 878 | 17 | 55 | 12 | Fair | Fair | Remove |
| Monterey pine (*Pinus radiata*) | 879 | 38 | 75 | 55 | Dead | Dead | Removed for fire safety |
| Monterey pine (*Pinus radiata*) | 880 | 35 | 65 | 45 | Dead | Dead | Removed for fire safety |
| Monterey pine (*Pinus radiata*) | 881 | 44 | 65 | 45 | Dead | Dead | Removed for fire safety |
| deodar cedar (*Cedrus deodara*) | 882 | 8, 6 | 30 | 20 | Fair | Poor | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| Monterey pine (*Pinus radiata*) | 883 | 47 | 85 | 45 | Dead | Dead | Removed for fire safety |
| Mexican fan palm (*Washingtonia robusta*) | 884 | 18 | 45 | 12 | Fair | Fair | Remove |
| deodar cedar (*Cedrus deodara*) | 885 | 11, 12 | 35 | 25 | Fair | Poor | Remove |
| Arroyo willow (*Salix lasiolepis*) | 886 | 6, 6, 6, 8, 8, 4 | 35 | 35 | Poor | Poor | Remove |
| Monterey cypress (*Hesperocyparis macrocarpa*) | 887 | 28 | 55 | 45 | Good | Fair | Remove |
| Monterey cypress (*Hesperocyparis macrocarpa*) | 888 | 32 | 55 | 45 | Good | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 889 | 16, 16 | 55 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 890 | 16 | 55 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 891 | 16, 16 | 55 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 892 | 16 | 55 | 12 | Fair | Fair | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| Mexican fan palm (*Washingtonia robusta*) | 893 | 16 | 55 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 894 | 16, 14, 14 | 55 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 895 | 15,16 | 55 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 896 | 16,16,15 | 55 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 897 | 20 | 55 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 898 | 16, 16 | 55 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 899 | 16, 16 | 55 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 900 | 13, 13 | 55 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 901 | 15 | 55 | 12 | Fair | Fair | Remove |
| Arroyo willow (*Salix lasiolepis*) | 902 | 8, 8, 8, 8, 8 | 25 | 25 | Fair | Fair | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| Mexican fan palm (*Washingtonia robusta*) | 903 | 16, 18 | 55 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 904 | 15, 17 | 55 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 905 | 18, 18 | 55 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 906 | 18, 18 | 55 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 907 | 18 | 55 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 908 | 16, 16 | 55 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 909 | 16 | 55 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 910 | 17, 16 | 55 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 911 | 18, 14 | 55 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 912 | 16 | | | Good | Good | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| Monterey pine (*Pinus radiata*) | 913 | 48 | 75 | 45 | Fair | Poor | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 914 | 16, 16 | 45 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 915 | 18 | 45 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 916 | 16, 14 | 45 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 917 | 16, 16, 16 | 45 | 12 | Fair | Fair | Remove |
| Jeffrey pine (*Pinus jeffreyi*) | 918 | 40 | 85 | 45 | Fair | Fair | Remove |
| Monterey pine (*Pinus radiata*) | 919 | 32 | 65 | 55 | Fair | Poor | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 920 | 18 | 55 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 921 | 18 | 55 | 12 | Poor | Poor | Remove |
| Douglas-fir (*Pseudotsuga menziesii)* | 922 | 9, 12 | 35 | 25 | Fair | Fair | Remove |
| deodar cedar (*Cedrus deodara*) | 923 | 17 | 35 | 35 | Good | Good | Remove |
| black pine (*Pinus nigra*) | 924 | 14 | 30 | 30 | Fair | Fair | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| Monterey pine (*Pinus radiata*) | 925 | 48 | 75 | 45 | Fair | Poor | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 926 | 16 | 45 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 927 | 16 | 45 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 928 | 16 | 45 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 929 | 15 | 45 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 930 | 15 | 45 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 931 | 15 | 45 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 932 | 16 | 45 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 933 | 16 | 45 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 934 | 16 | 45 | 12 | Fair | Fair | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| Mexican fan palm (*Washingtonia robusta*) | 935 | 18 | 45 | 12 | Fair | Fair | Remove |
| Mexican fan palm (*Washingtonia robusta*) | 936 | 18 | 45 | 12 | Fair | Fair | Remove |
| giant sequoia (*Sequoiadendron giganteum*) | 937 | 20 | 25 | 25 | Fair | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 984 | 10, 6 | 25 | 25 | Fair | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 985 | 9, 8 | 25 | 25 | Fair | Good | Retain |
| apricot (*Prunus armeniaca*) | 986 | 12 | 15 | 15 | Poor | Poor | Remove |
| American sweet gum (*Liquidambar styraciflua*) | 987 | 12 | 35 | 15 | Fair | Fair | Remove |
| American sweet gum (*Liquidambar styraciflua*) | 988 | 13 | 35 | 15 | Fair | Fair | Remove |
| American sweet gum (*Liquidambar styraciflua*) | 989 | 13 | 35 | 15 | Fair | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 1641 | 25, 24 | 45 | 35 | Fair | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 1642 | 13 | 45 | 25 | Good | Good | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| coast live oak (*Quercus agrifolia*) | 1643 | 20 | 45 | 45 | Good | Good | Remove |
| Ponderosa pine (*Pinus ponderosa*) | 1644 | 13 | 25 | 35 | Poor | Poor | Removed/ Top destroyed by 1645 failure |
| coast live oak (*Quercus agrifolia*) | 1645 | 24, 28 | 45 | 45 | Poor | Poor | Remove/ Failed Trunk/ Remove |
| coast live oak (*Quercus agrifolia*) | 1646 | 10 | 25 | 25 | Fair | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 1647 | 10 | 25 | 25 | Fair | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 1648 | 11 | 25 | 35 | Good | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 1649 | 18, 24 | 45 | 45 | Fair | Good | Retain |
| ponderosa pine (*Pinus ponderosa*) | 1650 | 30 | 85 | 45 | Good | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 1651 | 15 | 45 | 35 | Poor | Poor | Retain |
| coast live oak (*Quercus agrifolia*) | 1652 | 12 | 25 | 25 | Fair | Fair | Retain |
| coast live oak (*Quercus agrifolia*) | 1653 | 20 | 45 | 45 | Good | Fair | Retain |
| coast live oak (*Quercus agrifolia*) | 1654 | 9, 12 | 35 | 25 | Fair | Fair | Retain |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| coast live oak (*Quercus agrifolia*) | 1655 | 12, 11 | 45 | 35 | Poor | Poor | Retain |
| coast live oak (*Quercus agrifolia*) | 1656 | 8 | 25 | 25 | Fair | Fair | Retain |
| ponderosa pine (*Pinus ponderosa*) | 1657 | 14 | 45 | 25 | Fair | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 1658 | 15 | 45 | 25 | Good | Good | Remove |
| ponderosa pine (*Pinus ponderosa*) | 1659 | 16 | 55 | 25 | Fair | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1660 | 8, 5 | 25 | 25 | Fair | Fair | Remove |
| coast live oak (*Quercus agrifolia*) | 1661 | 12 | 45 | 45 | Fair | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1662 | 19 | 45 | 45 | Fair | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1663 | 16 | 45 | 45 | Fair | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1664 | 15, 7 | 45 | 45 | Fair | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1665 | 11 | 35 | 25 | Fair | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1666 | 8 | 25 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1667 | 28, 28 | 55 | 55 | Fair | Good | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| coast live oak (*Quercus agrifolia*) | 1668 | 8 | 25 | 25 | Fair | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1669 | 12 | 35 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1670 | 8 | 25 | 25 | Fair | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1671 | 10 | 35 | 35 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1672 | 15, 15 | 45 | 45 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1673 | 9 | 25 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1674 | 10 | 25 | 25 | Good | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 1675 | 9 | 25 | 25 | Good | Good | Retain |
| madrone (*Arbutus menziesii*) | 1676 | 21 | 25 | 35 | Poor | Poor | Remove |
| coast live oak (*Quercus agrifolia*) | 1677 | 8 | 25 | 35 | Good | Good | Remove |
| Arroyo willow (*Salix lasiolepis*) | 1801 | 8, 6 | 30 | 25 | Good | Good | Remove |
| Eucalyptus sp. | 1802 | 19 | 45 | 25 | Good | Good | Remove |
| privet (*Ligustrum lucidum*) | 1803 | 14 multi | 45 | 25 | Good | Good | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| privet (*Ligustrum lucidum*) | 1804 | 16 multi | 45 | 25 | Good | Good | Remove |
| privet (*Ligustrum lucidum*) | 1805 | 8 multi | 45 | 25 | Good | Good | Remove |
| privet (*Ligustrum lucidum*) | 1806 | 8 multi | 45 | 25 | Good | Good | Remove |
| Arroyo willow (*Salix lasiolepis*) | 1807 | 8, 8 | 35 | 35 | Fair | Good | Remove |
| Italian cypress (*Cupressus sempervirens*) | 1808 | Multi | 35 | 8 | Good | Good | Remove |
| Italian cypress (*Cupressus sempervirens*) | 1809 | Multi | 35 | 8 | Good | Good | Remove |
| Italian cypress (*Cupressus sempervirens*) | 1810 | Multi | 35 | 8 | Good | Good | Remove |
| Italian cypress (*Cupressus sempervirens*) | 1811 | Multi | 35 | 8 | Good | Good | Remove |
| Italian cypress (*Cupressus sempervirens*) | 1812 | Multi | 35 | 8 | Good | Good | Remove |
| Italian cypress (*Cupressus sempervirens*) | 1813 | Multi | 35 | 8 | Good | Good | Remove |
| Italian cypress (*Cupressus sempervirens*) | 1814 | Multi | 35 | 8 | Good | Good | Remove |
| Italian cypress (*Cupressus sempervirens*) | 1815 | Multi | 35 | 8 | Good | Good | Remove |
| Italian cypress (*Cupressus sempervirens*) | 1816 | Multi | 35 | 8 | Good | Good | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| coast live oak (*Quercus agrifolia*) | 1817 | 4, 4 | 25 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1818 | 6, 4 | 25 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1819 | 4, 3, 3 | 25 | 25 | Good | Good | Remove |
| Madrone (*Arbutus menziesii*) | 1820 | 12, 7 | 35 | 35 | Good | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 1821 | 10, 4 | 35 | 35 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1822 | 17 | 45 | 25 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1823 | 10 | 35 | 20 | Fair | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1824 | 9, 9 | 25 | 25 | Poor | Poor | Remove |
| coast live oak (*Quercus agrifolia*) | 1825 | 8 | 20 | 15 | Good | Good | Remove |
| Monterey pine (*Pinus radiata*) | 1826 | 27 | 45 | 45 | Poor | Poor | Remove |
| coast live oak (*Quercus agrifolia*) | 1827 | Multi 4 | 20 | 15 | Fair | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 1828 | Multi 6 | 20 | 15 | Good | Good | Remove |
| Arroyo willow (*Salix lasiolepis*) | 1829 | 11 | 20 | 20 | Poor | Poor | Retain |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| coast live oak (*Quercus agrifolia*) | 1830 | 6.5 | 20 | 20 | Good | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 1831 | 8 | 20 | 20 | Good | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 1832 | 8 | 20 | 20 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1833 | 7 | 20 | 20 | Good | Good | Remove |
| Photinia hedge (20) (*Photinia fraseri*) | 1834 | Multi stem | 15 | 15 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1835 | 11 | 20 | 20 | Good | Good | Remove |
| elderberry (*Sambucus nigra*) | 1836 | Multi 6 | 20 | 20 | Poor | Poor | Remove |
| coast live oak (*Quercus agrifolia*) | 1837 | 10, 8, 8, 10 | 30 | 25 | Fair | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1838 | 10 | 30 | 30 | Fair | Good | Remove |
| elderberry (*Sambucus nigra*) | 1839 | 8, 8, 4 | 25 | 25 | Poor | Poor | Remove |
| Arroyo willow (*Salix lasiolepis*) | 1840 | 15 | 15 | 30 | Poor | Poor | Remove |
| coast redwood (*Sequoia sempervirens*) | 1875 | 9 | 20 | 15 | Fair | Fair | Remove |
| coast redwood (*Sequoia sempervirens*) | 1876 | 10 | 20 | 15 | Fair | Fair | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| coast redwood (*Sequoia sempervirens*) | 1877 | 9 | 20 | 15 | Good | Good | Remove |
| Arborvitae (*Thuja occidentalis*) | 1878 | Multi-4 | 25 | 10 | Good | Good | Remove |
| Arborvitae (*Thuja occidentalis*) | 1879 | Multi-2 | 25 | 10 | Good | Good | Remove |
| Arborvitae (*Thuja occidentalis*) | 1880 | Multi-2 | 25 | 10 | Good | Good | Remove |
| Arroyo willow (*Salix lasiolepis*) | 1911 | 12, 10, 8 | 30 | 30 | Fair | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1912 | 9 | 30 | 15 | Fair | Good | Remove |
| Monterey pine (*Pinus radiata*) | 1913 | 7, 6 | 35 | 20 | Poor | Poor | Remove |
| coast live oak (*Quercus agrifolia*) | 1914 | 5, 5 | 25 | 20 | Fair | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1915 | 10 | 30 | 25 | Fair | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1916 | 8 | 35 | 25 | Fair | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1917 | 12 | 35 | 25 | Good | Good | Remove |
| Arroyo willow (*Salix lasiolepis*) | 1918 | 8, 8, 8, 10 | 20 | 35 | Poor | Poor | Remove |
| Poplar (*Populus nigra* ‘Italica’) | 1921 | 11, 5 | 45 | 25 | Good | Good | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| privet (*Ligustrum lucidum*) | 1951 | 7, 4, 2, 2 | 35 | 30 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1952 | 10 | 35 | 30 | Poor | Poor | Remove |
| coast live oak (*Quercus agrifolia*) | 1953 | 7.3 | 25 | 30 | Fair | Good | Remove |
| deodar cedar (*Cedrus deodara*) | 1954 | 12 | 35 | 25 | Good | Good | Remove |
| Arroyo willow (*Salix lasiolepis*) | 1955 | 14 | 30 | 30 | Poor | Poor | Remove |
| coast live oak (*Quercus agrifolia*) | 1956 | 10 | 30 | 25 | Poor | Poor | Remove |
| Arroyo willow (*Salix lasiolepis*) | 1957 | 14, 14 | 30 | 25 | Poor | Poor | Remove |
| Arroyo willow (*Salix lasiolepis*) | 1958 | 14, 12 | 30 | 25 | Poor | Poor | Retain |
| Arroyo willow (*Salix lasiolepis*) | 1959 | 14 | 30 | 25 | Poor | Poor | Remove |
| Arroyo willow (*Salix lasiolepis*) | 1960 | 12, 12 | 30 | 25 | Poor | Poor | Remove |
| Arroyo willow (*Salix lasiolepis*) | 1961 | 11, 7 | 35 | 35 | Poor | Poor | Remove |
| Arroyo willow (*Salix lasiolepis*) | 1962 | 9, 4, 4, 10 | 35 | 35 | Poor | Poor | Remove |
| Arroyo willow (*Salix lasiolepis*) | 1963 | 12, 8, 8 | 35 | 35 | Poor | Poor | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| coast live oak (*Quercus agrifolia*) | 1964 | 10 | 25 | 20 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1965 | 8 | 25 | 20 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1966 | 11 | 25 | 20 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1967 | 8 | 25 | 20 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1968 | 10, 6 | 35 | 20 | Good | Good | Remove |
| coast live oak (*Quercus agrifolia*) | 1969 | 12 | 35 | 20 | Good | Good | Remove |
| elderberry (*Sambucus nigra*) | 1970 | 13, 10, 7 | 25 | 25 | Poor | Poor | Remove |
| elderberry (*Sambucus nigra*) | 1971 | 10, 8, 4, 4 | 35 | 35 | Poor | Poor | Remove |
| coast live oak (*Quercus agrifolia*) | 1972 | 8 | 35 | 30 | Poor | Poor | Remove |
| elderberry (*Sambucus nigra*) | 1973 | 8, 6, 4 | 35 | 30 | Poor | Poor | Remove |
| Arroyo willow (*Salix lasiolepis*) | 1974 | 12, 10 | 35 | 30 | Poor | Poor | Remove |
| coast live oak (*Quercus agrifolia*) | 1975 | 13 | 35 | 25 | Fair | Good | Remove |
| madrone (*Arbutus menziesii*) | 1993 | 16 | 25 | 5 | Dead | Dead | Remove |

| Tree Species | I.D. # | Trunk Diameter (in.) | ~ Height (ft.) | ~ Canopy Diameter (ft.) | Condition | Suitability | Disposition |
|---|---|---|---|---|---|---|---|
| coast live oak (*Quercus agrifolia*) | 1994 | Multi | 30 | 30 | Poor | Poor | Remove |
| coast live oak (*Quercus agrifolia*) | 1995 | Multi | 30 | 30 | Poor | Poor | Remove |
| coast live oak (*Quercus agrifolia*) | 1996 | 12 | 35 | 30 | Fair | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 1997 | 16 | 35 | 35 | Good | Good | Retain |
| incense cedar (*Calocedrus decurrens*) | 1998 | 20 | 45 | 35 | Fair | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 1999 | 14 | 45 | 35 | Good | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 2000 | 20 | 45 | 35 | Good | Good | Retain |
| coast live oak (*Quercus agrifolia*) | 317 and 1976 | 9 | 25 | 25 | Good | Good | Retain |

# Appendix C: Tree protection specifications

Tree protection locations should be marked before any fencing contractor arrives.

## Pre-Construction Meeting with the Project Arborist

Prior to beginning work, all contractors involved with the project should attend a pre construction meeting with the project arborist to review the tree protection guidelines. Access routes, storage areas, and work procedures will be discussed.

## Tree Protection Zones and Fencing

Tree protection fencing should be established prior to the arrival of construction equipment or materials on site. Fencing should be comprised of six-foot high chain link fencing mounted on eight-foot tall, 1 7/8-inch diameter galvanized posts, driven 24 inches into the ground and spaced no more than 10 feet apart. Once established, the fencing must remain undisturbed and be maintained throughout the construction process until final inspection.

The fencing should be maintained throughout the site during the construction period and should be inspected periodically for damage and proper functions. Fencing should be repaired, as necessary, to provide a physical barrier from construction activities.

A final inspection by the city arborist at the end of the project will be required prior to removing any tree protection fence and replacement tree shall be planted at this time.

## Monitoring

Any trenching, construction or demolition that is expected to damage or encounter tree roots should be monitored by the project arborist or a qualified ISA Certified Arborist and should be documented.

The site should be evaluated by the project arborist or a qualified ISA Certified Arborist after construction is complete, and any necessary remedial work that needs to be performed should be noted.

## Restrictions Within the Tree Protection Zone

No storage of construction materials, debris, or excess soil will be allowed within the Tree Protection Zone. Spoils from the trenching shall not be placed within the tree protection zone either temporarily or permanently. Construction personnel and equipment shall be routed outside the tree protection zones.

## Root Pruning

Root pruning shall be supervised by the project arborist. When roots over two inches in diameter are encountered they should be pruned by hand with loppers, handsaw, reciprocating saw, or chain saw rather than left crushed or torn. Roots should be cut beyond sinker roots or outside root branch junctions and be supervised by the project arborist. When completed, exposed roots should be kept moist with burlap or backfilled within one hour.

## Boring or Tunneling

Boring machines should be set up outside the drip line or established Tree Protection Zone. Boring may also be performed by digging a trench on both sides of the tree until roots one inch in diameter are encountered and then hand dug or excavated with an Air Spade® or similar air or water excavation tool. Bore holes should be adjacent to the trunk and never go directly under the main stem to avoid oblique (heart) roots. Bore holes should be a minimum of three feet deep.

## Timing

If the construction is to occur during the summer months supplemental watering and bark beetle treatments should be applied to help ensure survival during and after construction.

## Tree Pruning and Removal Operations

All tree pruning or removals should be performed by a qualified arborist with a C-61/D-49 California Contractors License. Tree pruning should be specified in writing according to ANSI A-300A pruning standards and adhere to ANSI Z133.1 safety standards. Trees that need to be removed or pruned should be identified in the pre-construction walk through.

## Tree Protection Signs

All sections of fencing should be clearly marked with signs stating that all areas within the fencing are Tree Protection Zones and that disturbance is prohibited. Text on the signs should be in both English and Spanish (Appendix C).

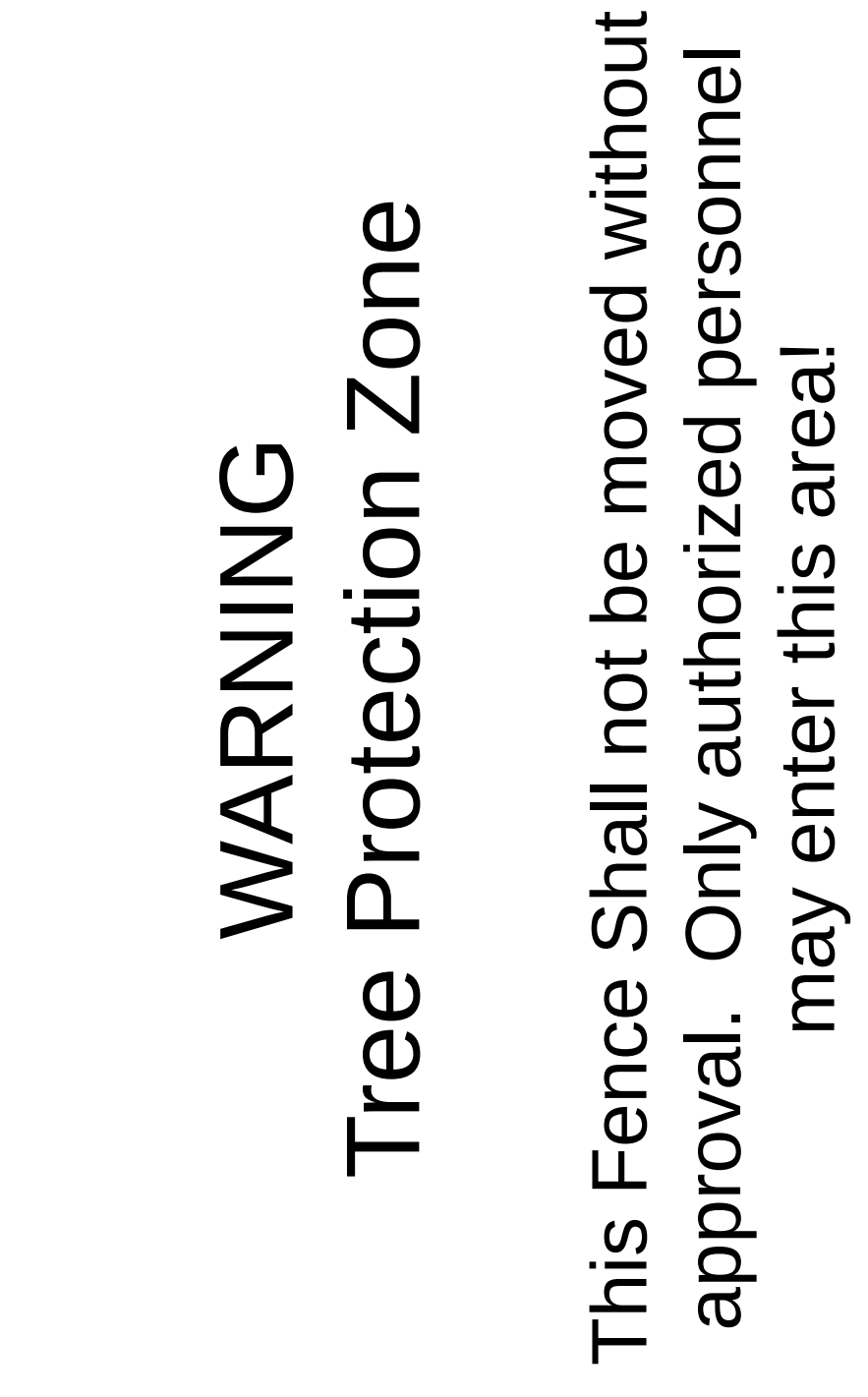
## City of Scotts Valley Requirements 17.44.080

Preservation and Maintenance.

1. The existing ground surface in the tree zone of any protected trees shall not be cut, filled, compacted or paved as a part of any new development project unless specifically recommended by a certified arborist. Specific attention to paving or covering soil within the tree zone of the any protected trees shall be evaluated to ensure the long term health of the tree(s). All cut fill, compaction and paving within the tree root zone of any protected tree shall be reviewed by a certified arborist and appropriate recommendations made based upon the conditions relative to the particular site and the condition and type of tree being affected. When conditions are applied to new development projects for preservation of specific tree(s), such conditions shall be applied to the future preservation and maintenance of the tree(s) after construction is complete.
2. When a proposed development complies with subsection E.4 and still encroaches into the tree root zone of any protected tree, special construction techniques shall be employed to permit the roots to remain undisturbed. The special construction techniques, as recommended by a certified arborist, may be required to be submitted with the application for building permits.
3. Excavation adjacent to any protected tree shall not be permitted where material damage to the root system will result. In questionable situations, the applicant shall provide substantiated documentation acceptable and satisfactory to the certified arborist and the community development director showing that the trees will be properly protected. Posting of a bond to insure tree protection may be required at the discretion of the community development director.
4. Chain link fencing with posts sunk in the ground or other fencing method approved by the city arborist shall be installed in locations surrounding tree(s) to be preserved during all construction activities on site. The location of the fencing shall be as determined by the certified arborist and community development director. Such fencing shall be installed by the applicant and inspected prior to issuance of a grading and building permit.
5. Landscaping and irrigation plans within the tree root zone of any protected tree(s) shall be reviewed and recommended by a certified arborist.

# Appendix C: Tree Protection Signs

## C1: English



**C2: Spanish**

CUIDADO
Zona De Arbol Pretejido

Esta cerca no sera removida sin aprobacion. Solo personal autorizado entrara en esta area!

Project Arborist

# 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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# EXTENDED PHASE I REPORT FOR THE VALLEY GARDENS GOLF COURSE REDEVELOPMENT PROJECT SANTA CRUZ COUNTY, CALIFORNIA




***Prepared for***

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**900 Modoc Street**
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**PL# 3958-03**

**February 2023**

Pacific Legacy
Historic Preservation

# EXTENDED PHASE I REPORT FOR THE VALLEY GARDENS GOLF COURSE REDEVELOPMENT PROJECTSANTA CRUZ COUNTY, CALIFORNIA

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**USGS 7.5-Minute Topographic Maps: Felton (1998), California**
**Project Area: 30.11-acres**

**February 2023**

## Confidentiality Statement

**Archaeological remains and historic period built-environment resources can be damaged or destroyed through uncontrolled public disclosure of information regarding their location. This document contains sensitive information regarding the nature and location of cultural resources, which should not be disclosed to unauthorized persons.**

**Information regarding the location, character or ownership of certain historic properties may be exempt from public disclosure pursuant to the National Historic Preservation Act (54 USC 300101 et seq.) and the Archaeological Resources Protection Act (Public Law 96-95 and amendments). In addition, access to such information is restricted by law, pursuant to Section 6254.10 of the California State Government Code.**

## MANAGEMENT SUMMARY

Under contract to Robson Homes, LLC (Robson Homes) and in consultation with the City of Scotts Valley, Pacific Legacy, Inc. (Pacific Legacy) conducted Extended Phase I (XPI) subsurface cultural resources identifications and prepared the present XPI Report for the proposed Valley Gardens Golf Couse Redevelopment Project (Project). The Project spans approximately 30.11-acres within the City of Scotts Valley in Santa Cruz County (*see* Appendix A, Figure 1). The City of Scotts Valley is the Lead Agency under the California Environmental Quality Act (CEQA).

Robson Homes is proposing to construct 107 single family dwelling units, approximately 10,350 square feet (sq. ft.) of commercial building space, with ancillary outdoor dining areas off Mount (Mt.) Hermon Road. New infrastructure may include a new road segment connecting Mt. Hermon Road and Lockewood Lane, intersection improvement in Mt. Herman Road and Lockewood Lane, a pedestrian/bicycle trail, typical frontage upgrades in the public right of way (ROW), and other typical subdivision improvements.

The purpose of this XPI cultural resource investigation was to determine whether there are previously recorded or unrecorded buried archaeological resources within the Project Area. A previous pedestrian surface inventory (Reese et al. 2022) did not relocate two previously recorded archaeological resources (P-44-000092/CA-SCR-000088/H and P-44-000493/CA-SCR-000343) within the Project Area and recommended an XPI subsurface exploratory investigation to search for buried deposits associated with these resources.

The XPI investigation was warranted due to the prior significant surface disturbance to the majority of the Project Area due to the construction and maintenance of the golf course, including importing fill sediments, shaping and grading the landform for the course and its facilities, and trenching for drainage, irrigation, and utilities (Reese et al. 2022). Such information supports the preparation of an Environmental Impact Report (EIR), which will determine the potential physical and environmental effects of the proposed Project and assist Robson Homes and the City of Scotts Valley in complying with State historic preservation laws and regulations, specifically CEQA.

The archival and records search documented by Reese et al. (2022) revealed that the boundaries of two archaeological sites are partially within the Project Area. Site P-44-000092/CA-SCR-000088/H is a Native American lithic scatter and historic period peat bog extraction location. Site P-44-000493/CA-SCR-000343 is a Native American lithic scatter with midden. Neither of these resources has been evaluated for listing on the California Register of Historic Resources (CRHR) or the National Register of Historic Places (NRHP).

Pacific Legacy's Principal Geoarchaeologist conducted exploratory backhoe trenching on June 14 and 15, 2022. Of the six trenches excavated, one (Trench 1) was positive for prehistoric archaeological deposits consistent with those ascribed to P-44-000092/CA-SCR-000088/H and P-44-000493/CA-SCR-000343. Prehistoric archaeological deposits in Trench 1 were observed mixed with fill near the surface and as intact deposits at greater depths within the trench.

Based on the positive results for subsurface Native American cultural materials in Trench 1, additional exploratory backhoe trenching was conducted on November 29 and 30, 2022, to define the boundary of buried cultural materials in the Trench 1 vicinity. Additionally, the site record for P-44-000493/CA-SCR-000343 was found to contain conflicting locational information. While the sketch map indicated its location along the southern margin of the Valley Gardens Golf Course, the description made reference to it being along the dirt driveway to 447 Lockewood Lane as well as being south of the golf course. Thus, additional XPI investigation was also designed to test for the presence or absence of this site along the dirt driveway to 447 Lockewood Lane which bisects the Project Area from west to east. A series of five trenches were excavated to the north and southeast of Trench 1, along the driveway to 447 Lockewood Lane, to determine the extent of the subsurface deposit within the Project Area. None of the five trenches, excavated in November, encountered buried or surface prehistoric or historic period cultural deposits, indicating a limited lateral extent of the deposit to the vicinity of Trench 1. This testing further indicates that P-44-000493/CA-SCR-000343 is not present along the dirt driveway to 447 Lockewood Lane.

Investigations to date have not revealed evidence of a historical resource or unique archaeological resource within the Project Area. Trenching in the southern and central portion of the Project Area has demonstrated that no significant, intact archaeological deposits are present in these areas. Although no cultural deposits were encountered during XPI investigations, outside of Trench 1, there remains the potential to encounter both isolated and intact cultural deposits during construction. Therefore, due to the presence of Native American cultural materials encountered subsurface in Trench 1, the presence of P-44-000092/CA-SCR-88/H on the western Project boundary and the unconfirmed presence of P-44-000439/CA-SCR-343 along the southern Project boundary, Pacific Legacy recommends archaeological monitoring for construction related ground disturbance in case of an unanticipated discovery. Pacific Legacy recommends the development of an Archaeological Monitoring and Inadvertent Discovery Plan to guide the intensity and frequency of monitoring required for specific types and depths of ground disturbance and provide protocols and procedures to be followed in the event of an unanticipated discovery including intact archaeological materials, features, and deposits or human remains. It is anticipated that full-time monitoring will not be required for all ground disturbing activities, rather a mix of full-time, part-time, and on-call will be appropriate for the Project.

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## 1.0 INTRODUCTION

Under contract to Robson Homes, LLC (Robson Homes) and in consultation with the City of Scotts Valley, Pacific Legacy, Inc. (Pacific Legacy) conducted an Extended Phase I (XPI) cultural resources subsurface exploratory investigation and prepared the present XPI Report for the proposed Valley Gardens Golf Course Redevelopment Project (Project), which spans approximately 30.11-acres in the City of Scotts Valley, Santa Cruz County (*see* Appendix A, Figure 1). The Project is subject to environmental clearance under the California Environmental Quality Act (CEQA). The Lead Agency under CEQA is the City of Scotts Valley. The Project proposes to construct 107 single family dwelling units, approximately 10,350 square feet (sq. ft.) of commercial building space, with ancillary outdoor dining areas off Mount (Mt.) Hermon Road. New infrastructure may include a new road segment connecting Mt. Hermon Road and Lockewood Lane, intersection improvement in Mt. Herman Road and Lockewood Lane, a pedestrian/bicycle trail, typical frontage upgrades in the public right of way (ROW), and other typical subdivision improvements.

In order to assist Robson Homes with the preparation of an Environmental Impact Report (EIR), which will determine the potential physical and environmental effects of the proposed Project, Pacific Legacy completed this XPI cultural resource study during June 14 and 15 and November 29 and 30, 2022. The purpose of the study was to determine whether there are previously recorded or unrecorded buried archaeological resources within the Project Area.

The following report section (Section 1.0) offers a brief summary of the proposed Project, a description of the Project location, state regulatory compliance, and XPI investigation personnel. Other sections provide information on the late Quaternary geology, geomorphology, and soils of the Project vicinity (Section 2.0), and Methods (Section 3.0), and Results (Section 4.0). Summary conclusions and recommendations are provided in Section 5.0. Project Figures are presented in Appendix A and trench soil stratigraphic descriptions are provided in Appendix B. Appendix C presents the site records for P-44-000092/CA-SCR-000088/H and P-44-000493/CA-SCR-000343 that were updated with this XPI study.

### 1.1 PROJECT DESCRIPTION

Robson Homes is proposing to construct 107 residential dwelling units, approximately 10,350 square feet (sq. ft.) of commercial building space, with ancillary outdoor dining areas off Mount (Mt.) Hermon Road in the City of Scotts Valley. As currently proposed, housing will consist of a mix of single- and two-story structures including 13 duplex buildings (26 units). The commercial component will be located near Mt. Hermon Road. The commercial area will be served by a surface parking lot that will be separated from the residential area by landscaped areas.

Primary access for the proposed residential development will be from Mt. Hermon Road and Lockewood Lane via a new local road with secondary roads and cul-de-sacs off it. This new road also will provide access to the commercial area. Adjacent to the new road will be a separate pedestrian/bicycle trail.

## 1.2 PROJECT LOCATION

The Project is located at 263 Mt. Hermon Road in the City of Scotts Valley, Santa Cruz County, California. The Project Area can be accessed from both Mt. Hermon Road and Lockewood Lane. The Project lies within Township 10 South, Range 2 West, on unsectioned land in *Rancho San Augustin*. Appendix A, Figure 1 depicts the Project Area location on the Felton (1998) 7.5-minute USGS topographic map. Appendix A, Figure 2 depicts the proposed Project Area on a true color orthophoto aerial map.

## 1.3 CALIFORNIA REGULATORY COMPLIANCE

### 1.3.1 CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

The Project is subject to CEQA, as codified at California Public Resources Code (*PRC*) *Sections 21000 et seq*., which requires lead agencies to determine if a proposed Project would have a significant effect on archaeological resources. As defined in *PRC Section 21083.2*, a "unique" archaeological resource is an archaeological artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

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

In addition, the CEQA Guidelines define historical resources as: (1) a resource in the CRHR; (2) a resource included in a local register of historical resources, as defined in *PRC Section 5020.1(k)* or identified as significant in a historical resource survey meeting the requirements of *PRC Section 5024.1(g)*; or (3) any object, building, structure, site, area, place, record, or manuscript that a lead agency determines to be historically significant or significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California, provided the Lead Agency's determination is supported by substantial evidence in light of the whole record.

If a Lead Agency determines that an archaeological site is a historical resource, the provisions of *PRC Section 21084.1* and *CEQA Guidelines Section 15064.5* would apply. If an archaeological site does not meet the CEQA Guidelines criteria for a historical resource, then the site is to be treated in accordance with the provisions of *PRC Section 21083* regarding unique archaeological resources. The CEQA Guidelines note that if a resource is neither a unique archaeological resource nor a historical resource, the effects of a Project on that resource shall not be considered a significant effect on the environment (*CEQA Guidelines Section 15064[c][4]*).

The CRHR is "an authoritative listing and guide to be used by state and local agencies, private groups, and citizens in identifying the existing historical resources of the state and to indicate which resources deserve to be protected, to the extent prudent and feasible, from substantial

adverse change" (PRC *Section 5024.1[a]*). The eligibility criteria for inclusion on the CRHR are based on National Register of Historic Places (NRHP) criteria (*PRC Section 5024.1[b]*). Certain resources are determined by the statute to be automatically included in the CRHR, including California properties formally determined eligible for, or listed in, the NRHP.

To be eligible for the CRHR, a prehistoric or historic period property must be significant at the local, state, and/or federal level under one or more of the following criteria:

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

For a resource to be eligible for the CRHR, it must also retain enough of its character or appearance (integrity) to be recognizable as a historical resource and to convey the reason for its significance. An historic resource that does not retain sufficient integrity to meet the NRHP criteria may still be eligible for listing in the CRHR.

### 1.3.2 TRIBAL CULTURAL RESOURCES AB52

Assembly Bill 52 of the CEQA Guidelines requires public agencies to consult with tribes during the CEQA process by establishing a consultation process with all California Native American Tribes, which includes both Federally Recognized Tribes and non-federally recognized Tribes. The process incorporates five steps:

Step 1: Tribe Requests Notification - To participate in AB 52 tribal consultation, a tribe must request, in writing, to be notified by lead agencies through formal notification of proposed projects in the geographic area with which the tribe is traditionally and culturally affiliated.

Step 2: Notification by Lead Agency - Within 14 days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a lead agency must provide formal notification to the designated contact or tribal representative of traditionally and culturally affiliated California Native American tribes that have requested notice. This notice must include a brief description of the proposed project; the project location; the lead agency contact information; and notification that the tribe has 30 days to request consultation.

Step 3: Tribe Requests Consultation - The tribe must respond, in writing, within 30 days of receipt of the formal notification and request consultation. When responding to the lead agency, the tribe shall designate a lead contact person. If the tribe does not designate a lead contact person or designates multiple lead contact persons, the lead agency shall defer to the person listed on the contact list maintained by the NAHC for SB 18 consultation.

Step 4: Lead Agency Begins Consultation - The lead agency shall begin the consultation process within 30 days of receiving a California Native American tribe's request for consultation and prior to the release of a negative declaration, mitigated negative declaration, or environmental impact report.

Step 5: Conclusion of Consultation - The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists to a tribal cultural resource; or a party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached.

A new class of resource is defined by AB 52, the Tribal Cultural Resource. Section XVII "Tribal Cultural Resources" contains the added questions, which follow:

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:

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

2. 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.

### 1.4 STAFF QUALIFICATIONS

Hannah Ballard, MA, RPA, has over 25 years of experience in California cultural resources management and served as the Principal Investigator and Project Manager for the Project. Graham Dalldorf, MA, RPA, has 26 years of experience in California archaeology and geoarchaeology, and was the Field Director for the XPI backhoe trenching effort, as well as the primary XPI report author. Marc Greenberg, MA, RPA, has over 20 years of experience conducting archaeological investigation, including over 12 years of experience in California archaeology, and assisted with fieldwork and reporting. Aleck Tan, MA, RPA, has over eight years of experience in California and maritime archaeology with a specialization in cartography and Geographic Information Systems. All of Pacific Legacy's senior staff meets the professional requirements of the Secretary of the Interior's Standards and Guidelines for Archeology and Historic Preservation (Federal Register, Vol. 48, No. 190).

## 2.0 PROJECT BACKGROUND

A Project background section summarizing the archaeological, ethnographic, and historical context has previously been provided by Reese et al. (2022) for the inventory report, and such information will not be repeated here. Instead, the following subsections include site-specific late Quaternary geologic, geomorphic, and soils summaries to provide context for the discovery of any previously unidentified buried archaeological deposits.

The Project lies in central Santa Cruz County, on the western side of the northern end of the South Coastal Range Mountains (*see* Appendix A, Figure 1 and Figure 2). The Project falls between the Cities of Santa Cruz to the south and Los Gatos to the north, along Highway 17. Scotts Valley lies adjacent to the Carbonera Creek drainage flowing southward approximately 0.75-miles to the east and the Bean Creek drainage, flowing westward, approximately 0.5 miles to the north. Both creeks feed into the San Lorenzo River drainage system and eventually flow to the Pacific Ocean in the City of Santa Cruz.

### 2.1 GEOLOGY AND LATE QUATERNARY GEOLOGY

Geologic mapping shows the Project location as undifferentiated alluvial deposits (Qal) of Holocene age (Brabb 1989). These undifferentiated alluvial deposits are described as surficial deposits consisting of unconsolidated, heterogeneous, moderately sorted silt and sand containing discontinuous lenses of clay and silty clay. The mapped extent of this unit closely corresponds to the late Quaternary deposit of undifferentiated alluvium previously mapped by Dupre (1975). This Holocene alluvial unit is likely underlain by Santa Margarita Sandstone (Tsm) of the upper Miocene, mapped just to the south and west of the Valley Gardens Golf Course (Brabb 1989). Santa Margarita Sandstone is described as very thick bedded to massive thickly cross-bedded yellowish-gray to white friable, granular, and medium-to fine-grained arkosic sandstone that is locally calcareous and locally bituminous.

### 2.2 GEOMORPHOLOGY AND SOILS

The Project Area is located on the southwestern margin of Scotts Valley, where steeper, erosional hillslopes of pre-Quaternary age sandstone transition to Holocene-age valley margin footslopes and the valley floor. The Project Area slopes upwards roughly 56 feet (17.1 m) from 514 ft. (156.7 m) at the northern margin near Mt. Hermon Road to 570 ft. (173.8 m) at the southwestern region of the Project (Geo-Logic Associates 2019), yielding an average slope across the Project Area of 5.8%. A Project Area survey (RJA n.d.) shows the elevation along Dunn Lane at 563 ft. (171.6 m).

Lower portions of the Project Area may include lacustrine deposits from a previously documented early Holocene and late Pleistocene lake ("Lake Scott") that inundated much of the valley floor (Cartier 1993), leaving extensive peat deposits after its desiccation, probably sometime during the early to middle Holocene. However, these geomorphic features have likely been obscured or destroyed by recent suburban development and associated earth moving activities since the early- to mid-20$^{th}$ century. There is likely to have been significant earth-moving activities associated with the golf course construction and maintenance, including constructing elevated locations, excavating ponds and sand-traps, and grading fairways, greens, and access routes.

Soils map units have been delineated at the most detailed level available as part of the Soil Survey Geographic (SSURGO) mapping (USDA NRCS 2021). The entire Project Area is located in a map unit designated as Zayante coarse sand, which can be located in areas with slopes between 5 to 30 percent, with the Project Area falling into the lower range of these proposed slopes. The Zayante soil is classified as an Entic Xerumbrept formed on backslopes and summits of hills. This soil map unit is somewhat at odds with the geologic and geomorphic data that suggest a soil formed in alluvium deposited in a footslope position forming alluvial fans and low terraces. Regardless, Zayante series soils have a soil profile consisting of A1/A2/A3/C1/C2 horizons. Based on the relatively weak soil profile development, the soil is probably mid-to-late Holocene in age, but this age assignment is complicated by the soil's coarse texture and formation on erosional hillslopes where truncated soil profiles can be expected.

## 2.3 POTENTIAL FOR BURIED ARCHAEOLOGICAL RESOURCES

The potential for a depositional landform to contain buried archaeological deposits is largely based on the likelihood that the current landform surface contains buried formerly stable surfaces (paleosols) that were previously available at the surface for prior (e.g., prehistoric) use and archaeological discard. In general, the younger the age of a depositional landform's surface, the higher the likelihood that the landform will contain buried archaeological deposits. In contrast, erosional landforms and landforms that formed at or before human occupation of a particular region generally have low potential to contain buried archaeological deposits. In areas of extensive modern mechanical earth-moving, artificial fill may have also buried and obscured formerly stable late prehistoric or contact-era surfaces.

Using quaternary geological mapping, soil mapping, radiocarbon dating databases, and extensive knowledge of buried site locations, several regional models of buried archaeological site probability have been developed for the San Francisco Bay Area region (Meyer and Rosenthal 2007; Byrd et al. 2017), and adjacent valleys such as the Santa Clara Valley (Rosenthal and Meyer 2004). The validity of such models depends on an accurate accounting of Holocene landscape evolution, and they also incorporate environmental variables that favor prehistoric human settlement (e.g., Meyer et al. 2011; Byrd et al. 2017:4-1), such as proximity to a freshwater source and gentle slope.

A cultural resources sensitivity study (Edwards and Simpson-Smith 1983) was prepared for the City of Scotts Valley to assist with land use planning and development and represents an early effort to qualitatively model archaeological site location probability in the Project Area. Their study looked at the available cultural resource data, combined with environmental and geological data, which would indicate areas of cultural resource sensitivity depicted as binary categories of high or low sensitivity. Their sensitivity map indicates high sensitivity for the current Project Area, although the study does not differentiate between surface and buried sensitivity. The Scotts Valley General Plan (1994: Figure OS-2) shows roughly the southeastern third of the Project Area as within a Low Sensitivity Zone and the remainder of the Project Area within a High and Moderate Sensitivity Zone.

The Edwards and Simpson-Smith (1983) model does not take into account the former extent of the early Holocene lake located in Scotts Valley, along the margin of which CA-SCR-177 is thought to be located (Cartier 1993). CA-SCR-177 is located in present day MacDorsa Park, less than 1.0 mile (1.6 km) east of the Project Area and at an elevation of 580 feet (ft) (177 meters [m]) above mean sea level. Project Area elevations range from about 510 to 570 ft. (155 to 174 m), suggesting that as the lake desiccated and/or reached a lower stand equilibrium depending on changing climatic conditions, portions of the Project Area may have been very favorable to prehistoric human settlement, as has been shown in other interior valleys of the Coast Ranges with relatively small, shallow lakes, such as Little Lake Valley around Willits (Dalldorf 2015).

Although a modern buried archaeological site probability model does not appear to be available for Scotts Valley, based on methods used to develop other available regional models, the Project Area should be considered to have high probability for buried archaeological sites. The high probability is based on the estimated late Holocene age of the depositional landforms and their surface soils in the Project Area, as well as gentle slopes, close proximity to nearby freshwater sources, and extensive modern landscaping that has potentially buried prehistoric or contact-era ground surfaces.

## 2.4 PREVIOUSLY RECORDED CULTURAL RESOURCES

Two previously recorded cultural resources have been identified partially within the Project Area (*see* Appendix A, Figure 3). Neither of the cultural resources has been evaluated for the NRHP or CRHR.

### *P-44-000092/CA-SCR-88/H*

Resource P-44-000092/CA-SCR-88/H is a multi-component archaeological site that was originally recorded in 1974 by Jean Stafford and excavated by Martin Heicksen also in 1974 (Heicksen 1974; Stafford 1974a, 1974b). These studies were conducted for the Rolling Green Townhouse Development, which has since been built on the property bordering the Valley Gardens Golf Course. The Native American component is described as sparse lithic scatter comprised of approximately 13 Monterey chert and quartzite flakes and cores, a possible quartz scraper, and fire cracked rock in midden soil (Stafford 1974). Additionally, Stafford noted that local informants had reported a mortar was previously found along Lockewood Lane portion and two "arrowheads" were found during the 1929 excavation of a pond on the western edge of the Valley Gardens Golf Course; however, both finds were unconfirmed by Stafford. The historic period component of this site is the J. J. Graham Peat Bog that was commercially harvested from 1930 to the early 1940s (Stafford 1974). The owner of the peat harvesting operation was J.J. Graham and his son Bill Graham, who later became the first Mayor of Scotts Valley (Stafford 1974). The Stafford site record provides archival data however, no physical manifestation of the peat harvesting operation was noted.

Martin Heicksen directed test excavations within the boundaries of the site in 1974 (Heicksen 1974). They excavated six test units to the west of a pond, which was located east of Lockewood Lane and north of the intersection with Twin Pines Drive. The units, which measured 1 x 1m and 2 x 2 m, were excavated in 10-centimeter (cm) levels to maximum depths ranging from 10 to 50 cm below surface (cmbs). Excavations were terminated in sterile levels. The majority of the

units encountered very few artifacts, primarily chert flakes and "waste flakes," most of which were encountered on the surface or in the upper levels of the units. The flakes recovered included Monterey and Franciscan chert, basalt, quartzite, and obsidian (Heicksen 1974:3). One unit (Pit #7) encountered a disturbed layer at 50 cmbs, which included several chert flakes, barbed wire, metal bars, bolts, and a U-shaped fence staple. The notes from these units do not provide a comprehensive documentation of the materials recovered or depths of recovery. It is not clear to what extent the site deposits are intact or extend below 30-50 cmbs. This resource was mapped along the western boundary of the Project Area, the majority of the site lies outside of the Project Area (see Appendix A, Figure 3). P-44-000092/CA-SCR-88/H was not previously evaluated for the NRHP or the CRHR.

Site P-44-000092/CA-SCR-88/H was relocated in 1977 by Roop et al. (1977), who observed midden on the ground surface and noted the site has been disturbed and surface visibility obscured by the construction of housing, roads, a mushroom farm, and the golf course. However, dark midden was reported observed at the time of survey. Additional studies that were conducted within or adjacent to the site boundaries have noted sparse cultural materials, including groundstone, choppers, and debitage, are present north and northwest of the current site boundary (Archeological Resource Management 1994; Dietz 1986). The site record has not been updated to include these finds, which indicate that the site may extend north to the intersection of Lockewood Lane and Mt. Herman Road and potentially west of Lockewood Lane. The Archeological Resource Management (1994) investigation noted that cultural materials found adjacent to Lockewood Lane were in disturbed contexts. Dietz (1986) identified one flake at 80 cmbs, all other materials were surface finds. Neither of these studies were within the current Project Area.

***P-44-000493/CA-SCR-343***

P-44-000493/CA-SCR-343, is a Native American sparse lithic scatter with midden, which was first recorded in 2002 by Robert Cartier. The site measures 800 ft. by 600 ft. Site constituents included one large quartzite core, smaller cores and possible lithic debitage of unspecified materials, and fire cracked rock. Midden from this resource was observed and mapped over a large area purportedly along the southern boundary of the current Project Area, as shown in the site location map and the site sketch map (See Appendix A, Figure 3 and Appendix C).

The site record (Cartier 2002) contains conflicting information regarding the exact location of the site, describing it as extending west to east on either side of the driveway leading to the residence at 447 Lockewood Lane, as noted under the "P2.e. Other Locational Information" heading of the site record. In the same sentence, however, the resource is described as "south of the Valley Gardens Golf Course." Additionally, the "A7. Site Condition" section notes that the golf course is "nearby". The sketch map shows the site on either side of a "dirt driveway" which starts at Arrowhead Lane then heads south and then southeast paralleling the southern boundary of the Valley Gardens Golf Course and north but parallel to Estrella Drive. As mapped the driveway is in the approximate location of present-day Dunn Lane, which also corresponds to the elevation given on the site record in Section P2.e. While the site boundary is drawn to overlap the golf course, most of the text indicates that the site is south of the golf

course. No subsequent studies confirmed the site's location, consequently, the location of this site is undetermined.

The site record (Cartier 2002) also speculates that the site could be from an occupation coeval with CA-SCR-177, because it is also located near the former lake margin.

## 2.5 AB 52 CONSULTATION

In September 2021, the City of Scotts Valley contacted the NAHC and representatives of four tribes with Notice of Preparation letters, as part of their AB 52 consultation. The NAHC responded with a letter describing the AB 52 and Senate Bill 18 consultation process. In December 2021, Pacific Legacy personnel submitted a request to the NAHC for a search of the Sacred Lands File (SLF) for potential tribal cultural resource sensitivity within the Project Area and a current Native American Contact List for the Project. On April 25, 2022, the NAHC responded that the SLF is negative for cultural resources in the Project Area and provided a Native American Contact List. The list of contacts was forwarded to the City of Scotts Valley to assists with their Assembly Bill (AB) 52 consultation, initiated in 2021. On May 5, 2021, the City sent AB 52 letters to the contacts on the NAHC list notifying the tribes and individuals about the proposed XPI investigations. The City did not receive any responses to these letters. The City considers the AB 52 consultation to have concluded. Detailed documentation about Pacific Legacy's communication with the NAHC is included as an appendix to Reese et al. (2022).

## 3.0 SCOPE OF WORK

The scope of work for the present XPI was designed to test for the presence or absence of cultural deposits within the Project Area including those associated with P-44-000092/CA-SCR-88/H and P-44-000493/CA-SCR-343. The initial XPI investigations took place between June 14 and 15, 2022. The results of the initial XPI investigation demonstrated the need for additional testing to investigate test for the presence/absence of P-44-000493/CA-SCR-343 along the driveway to 447 Lockewood Lane and determine the extent of the materials observed in Trench 1. The combined XPI field efforts involved excavation and inspection of 11 exploratory trenches in the Project Area (*see* Appendix A, Figure 3). The location and depth of trenches reflected the nature and depth of proposed Project related ground disturbance including depth of excavation for structure pads and utilities. Existing underground utilities were marked in advance by submitting an underground service alert through USA North (Tickets X215302272, W215300241, and X232700291), and care was taken to avoid any underground utilities during excavations and protected trees.

### 3.1 TRENCHING METHODS

The focus of XPI fieldwork was the excavation of 11 exploratory backhoe trenches within the Project Area. In June 2022, Pacific Legacy contracted with Maverick Engineering of Boulder Creek, California, to mechanically excavate the initial six trenches to search for archaeological deposits (*see* Appendix A, Figures 3 and 4). These six trenches were excavated by a Case 580 Super N Backhoe Loader with an interval spacing ranging from of 35 to 165 m (115 to 541 ft.) and placed as close to the site boundaries of P-44-000092/CA-SCR-88/H and P-44-000439/CA-SCR-343 as field conditions permitted. The initial six trenches were excavated beginning in the northern part of the Project Area, extending southward and eastward through the Project Area. Some trench excavations were altered from their original proposed locations in areas of limited access due to dense vegetation, protected trees, steep fill slopes, or the presence of underground utilities or traffic hazards.

The results of the June 2022 XPI trenching indicated the need for additional investigations in the vicinity of Trench 1 and along the driveway of 447 Lockewood Lane. Thus, five additional trenches were placed to the north and east of Trench 1 on November 29 and 30, 2022. An operator employed by Jack Galante under contract to Robson Homes used a John Deere 410G Backhoe Loader to excavate the five trenches. These trenches were intended to define the lateral extent of the subsurface cultural materials identified in Trench 1 and determine the presence/absence of P-44-000439/CA-SCR-343 along the driveway to 447 Lockewood Lane.

The proposal for the second round XPI investigation included as many as 10 potential trench locations with the caveat that their location may be adjusted in the field and the results of the first five trenches might eliminate the need for additional trenching. As with the June 2022 XPI trenching, field conditions such as the proximity of protected trees and the location of marked and unmarked underground utilities resulted in relocating trenches from their originally proposed locations. Due to negative results in the additional five trenches, the remaining five proposed trenches were not excavated. Of the 10 proposed trenches, Trenches 7, 8, 9, 15, and 16 were completed, whereas Trenches 10, 11, 12, 13, and 14 were not excavated. Appendix A,

Figure 4 illustrates proposed trench locations for November 2022 trenching (Trenches 7-16) and the locations of the June 2022 trenches (Trenches 1-6).

The eleven backhoe trenches from June and November 2022 all measured 0.6 m (2.0 ft.) wide and ranged in length from 2.5 to 6.0 m (8.2 to 19.7 ft.). Trenches were ramped at one end to allow ingress/egress, with maximum depths ranging from 0.95 to 3.4 m (3.1 to 11.2 ft.). Roughly 17.4 $m^3$ (22.7 cubic yards) of material was excavated from the initial six trenches (Trench 1 through Trench 6), and another 14.9 $m^3$ (19.6 cubic yards) of materials was excavated from the five subsequent trenches (Trenches 7, 8, 9, 15, 16). All trench spoils were closely monitored for archaeological deposits.

Per California OSHA regulations, no Project personnel were allowed to enter sections of an exploratory trench deeper than 1.5 m (5.0 ft.) without proper shoring or benching. Where appropriate and safe, at depths up to 1.5 m (5.0 ft.), trench sidewalls were also closely examined for cultural materials. When the trench depth surpassed 1.5 m (5.0 ft.), the spoils pile continued to be closely examined for archaeological material and changes in soil stratigraphy. Where buried soils were observed or cultural materials suspected or identified, samples of trench spoils consisting of 3 to 5 five-gallon buckets were passed through ¼- inch mesh screen to search for cultural materials. Any recovered cultural material was subject to basic field analysis and reburied in the trench from which it was recovered. The location of each trench was recorded with a Trimble GPS unit (see Figure 3). Digital photographs of trench locations, trench sidewalls, and trenching operations were taken. After documentation, attempts were made to return the excavation area to pre-excavation appearance and grade, including backfilling and compaction. Compaction efforts were monitored by Francesca Senes, Staff Geologist with Geo-Logic of San Jose.

### 3.2 SOIL STRATIGRAPHIC IDENTIFICATION AND DESCRIPTION

The natural and cultural stratigraphy (if present), of each trench was identified by carefully examining the deposits exposed in the sidewalls and spoils of the subsurface exploratory trenches. Soil stratigraphic units (strata) were identified on the basis of physical composition, superposition, relative soil development, and/or textural transitions. In the field, each stratum was assigned a Roman numeral (I, II, III, etc.) beginning with the oldest or lowermost stratum identified in each trench.

The master soil horizons were designated by upper-case letters (O, A, B, C, or R) and preceded by Arabic numerals (2, 3, etc.) when the horizon is associated with a different stratum (i.e., 2Cu); number 1 is not labeled in such a sequence. The upper part of a complete soil profile is usually called the A horizon, with a B-horizon being the zone of accumulation in the middle of a profile, and the C-horizon representing the relatively unweathered parent material near the base of a profile. Lower-case letters were used to designate subordinate soil horizons as indicated below:

| **Horizon suffix** | **Description** |
|---|---|
| b | Buried horizon at the location it was described (not used with C horizons) |
| ox | Residual pedogenic sesquioxide accumulation |

| suffix | Description |
|---|---|
| p | Zone of artificial fill or disturbance (e.g., plowing) |
| w | Weak color or structure within B-horizon |

Combinations of these numbers and letters indicate the important characteristics of each major stratum and soil horizon; they are consistent with those outlined by Birkeland (1999), Birkeland et al. (1991), and Schoeneberger et al. (2012). Detailed notes regarding the soil stratigraphy of each trench excavated for the XPI study can be found in Appendix B.

Buried soils or paleosols representing formerly stable ground surfaces were identified in the field on the basis of color, structure, horizon development, bioturbation, lateral continuity, and the nature of the upper boundary (contact) with the overlying deposit (Birkeland et al. 1991). The results of this analysis are critical for developing an understanding of the timing and extent of landscape change in the Project Area. Absent positive identification of substantial archaeological deposits, such information allows for certain areas or depths (e.g., Pleistocene landforms and deposits) to be determined non-sensitive for buried archaeological deposits, essentially confirming the absence in these areas, because they pre-date human occupation of the area. Such information can also guide monitoring efforts during construction if the age and depth of buried paleosols are known.

## 4.0 RESULTS

This XPI study involved the initial excavation of six exploratory trenches within the Project Area placed as close to the site boundaries of P-44-000092/CA-SCR-88/H and P-44-000439/CA-SCR-343 as field conditions permitted. Due to positive results for buried prehistoric cultural materials identified in Trench 1 and discrepancies in the reported location of P-44-000439/CA-SCR-343, another five exploratory trenches were placed to the north and east of Trench 1 and along the driveway to 447 Lockewood Lane to determine the lateral extent, if any, of the subsurface cultural deposits encountered. The following subsections summarize the results of the XPI trenching efforts and describe the soil stratigraphy of the Project Area in detail. The locations of the trenches are shown in Appendix A, Figure 3. Profiles of representative trenches are shown in Appendix A, Figures 6-8. Cultural materials identified in Trench 1 are depicted in Appendix A, Figure 9.

### 4.1 EXPLORATORY TRENCHING

The first six trenches in the Project Area (Trench 1 through Trench 6) were mechanically excavated on June 14 and 15, 2022, by Jeremy Morrill of Maverick Engineering from Boulder Creek, California, using a Case 580 Super N Backhoe Loader. Approximately 17.4 $m^3$ (22.7 cubic yards) of material was excavated from these six trenches, for an average of about 2.9 $m^3$ (3.8 cubic yards) of excavated soil per trench. A sparse prehistoric archaeological deposit was noted in Trench 1 at depths of about 90 to 150 cm (3-5 ft.) below surface, underneath mixed fill with some prehistoric artifacts. Aside from modern refuse, no other cultural material was observed at the other five initial trench locations.

Another five trenches were excavated to the north and east of Trench 1 on November 29 and 30, 2022. These trenches were excavated by an operator employed by Jack Galante using a John Deere 410G Backhoe Loader. Approximately 14.9 $m^3$ (19.6 cubic yards) of material was exhumed from these five trenches, averaging just under 3.0 $m^3$ (3.9 cubic yards) of soil per trench. These trenches were intended to define the lateral extent of the subsurface cultural materials found in Trench 1 and identify presence or absence of materials associated with P-44-000439/CA-SCR-343 along the driveway to 447 Lockewood Lane. None of the trenches (Trench 7, 8, 9, 15, or 16) contained prehistoric materials or evidence of a disturbed or buried archaeological deposits. Table 1 lists the characteristics of each trench, while stratigraphic descriptions for each trench are provided in Appendix B.

**Table 1. Extended Phase I Trench Summary.**

| Trench | Dimensions l x w (m) | Maximum Depth mbs (ft.) | Estimated Volume $m^3$ (cubic yard)* | Findings |
|---|---|---|---|---|
| 1 | 4.6 x 0.6 | 2.15 (7.0) | 3.6 (4.7) | Sparse prehistoric deposit |
| 2 | 3.7 x 0.6 | 1.8 (5.9) | 2.0 (2.6) | No cultural material |
| 3 | 4.7 x 0.6 | 2.9 (9.5) | 4.1 (5.4) | Modern refuse |
| 4 | 4.6 x 0.6 | 3.4 (11.2) | 4.7 (6.1) | No cultural material |
| 5 | 4.6 x 0.6 | 1.9 (6.2) | 2.6 (3.4) | No cultural material |
| 6 | 2.7 x 0.6 | 0.95 (3.1) | 0.4 (0.5) | No cultural material |
| 7 | 6.0 x 0.6 | 3.0 (9.8) | 5.4 (7.1) | No cultural material |

| Trench | Dimensions l x w (m) | Maximum Depth mbs (ft.) | Estimated Volume $m^3$ (cubic yard)* | Findings |
|---|---|---|---|---|
| 8 | 4.0 x 0.6 | 1.8 (5.9) | 2.2 (2.9) | No cultural material |
| 9 | 6.0 x 0.6 | 1.7 (5.6) | 3.1 (4.1) | No cultural material |
| 15 | 4.0 x 0.6 | 1.8 (5.9) | 2.2 (2.9) | Buried modern refuse |
| 16 | 4.6 x 0.6 | 1.45 (4.8) | 2.0 (2.6) | No cultural material |
| Total | - | - | 32.3 (42.3) | - |

*Estimated Volume is based on trenches being ramped from one end.

A sparse prehistoric archaeological deposit was noted in Trench 1 at depths of about 90 to 150 cm below surface under mixed fill constituting the surface at the location of Trench 1. Aside from modern refuse, no other cultural material was observed at the other trench locations. The prehistoric deposit is discussed in greater detail below.

A small amount of modern and historic period refuse (golf balls and one isolated, colorless glass liquor bottle) were found Trenches 15 and 16. The isolated bottle is discussed in more detail below.

### 4.1.1 SOILS AND STRATIGRAPHY

XPI trenching documented weakly developed soils formed in residuum on low angle hillslopes (Stratum I), and in footslope alluvium (Stratum II). In some portions of the Project Area subject to modern earth moving activities, artificial fill (Stratum III) was observed, often forming low terraces at the golf course tees. These three strata documented in the Project Area are described in detail below. Soil stratigraphic profiles and photographs are shown in Appendix A, Figures 6-8 and described in detail in Appendix B, Trench Descriptions and Dimensions.

#### *STRATUM I*

Stratum I is characterized by a weakly developed soil formed in coarse-grained (sand and loamy sand) residuum. Stratum I is exposed at the surface at the southern end of the Project Area in Trenches 4, 5, and 6, but is presumedly buried by the footslope alluvium of Stratum II elsewhere. Stratum I exhibits a soil profile of A1/A2/C/Cox1/Cox2. The A horizons are very dark grayish brown or dark brown, with textures of coarse sand and loamy sand, and extend to depths ranging from 85 to 94 cmbs (~3 ft.bs). The C horizons are characterized by coarse sandy texture and colors of brown to very pale brown with yellowish brown sesquioxides below 180 cmbs (~6 ft.bs). Based on its weak soil development on erosional slopes, Stratum III is interpreted as a Holocene age soil formed in a parent material of Santa Margarita Sandstone of upper Miocene age.

#### *STRATUM II*

Stratum II is characterized by a weakly developed soil formed in coarse-grained (sand and loamy sand) footslope alluvium. Stratum II is exposed at the surface on lower angle footslopes in the central and northern portions of the Project Area in areas where it has not been buried by artificial fill (e.g., Trench 2). Where buried by the artificial fill of Stratum III (e.g., Trenches 1 and 3) Stratum II is encountered at depths ranging from 90 to 98 cmbs (~ 3 ft.bs). Where buried,

Stratum II exhibits a soil profile of 2Ab/2C1/2C2 horizons. The buried A horizon is very dark grayish brown or black, with textures of coarse sand and loamy sand, and extend to depths ranging from 150 to 180 cmbs (~5-6 ft.bs). In Trench 1, Stratum II contained prehistoric cultural materials in the buried A horizon, as described in the following section. The C horizons are characterized by coarse sandy texture and colors of very dark gray to brown. Based on its weak soil development on foothill slopes, Stratum II is interpreted as a Holocene age soil formed in a parent material of alluvium derived from upper Santa Margarita Sandstone.

***STRATUM III***

Stratum III is characterized by a very weakly developed soil formed in coarse-grained (sand and loamy sand) artificial fill. Stratum III is exposed at the surface in portions of the Project Area that have been subject to modern mechanical earth moving activities, and forms elevated terraces (e.g., golf course tee boxes) such as those encountered at Trenches 1 and 3. Stratum III extends from the surface to depths ranging from 90 to 98 cmbs (~ 3 ft.bs). Stratum III exhibits a soil profile of a single Ap horizon. The Ap horizon is dark grayish brown or brown sand and loamy sand with pockets of pale brown sand (*see* Appendix A, Figure 6), such as described in Trench 1. Stratum III contains modern refuse (plastic fragments, miscellaneous metal fragments, golf tees), as well as sparse prehistoric cultural materials in Trench 1. Based on its weak soil development on artificially constructed landform slopes, Stratum III is interpreted as a modern deposit formed during earth moving activities from mixed local sources.

### 4.1.2 CULTURAL DEPOSITS

A sparse intact prehistoric archaeological deposit was noted in Trench 1 at depths of about 90 to 150 cm below surface (3 ft. to 5 ft. below surface) under mixed fill, also containing prehistoric materials, constituting the top 90 cm (3 ft.) of Trench 1. Artifacts observed (*see* Appendix A, Figure 9) consist of three cryptocrystalline silicate (CCS; Monterey chert) flakes, and eight fire cracked rocks (FCR), including one FCR fragment that is a probable groundstone (mano) fragment, and a large cobble hammerstone fragment that exhibited end battering. Two of the FCR fragments were recovered from the fill layer overlying the relatively undisturbed archaeological deposit, but they are likely out of primary context (i.e., in secondary context mixed with fill containing modern refuse). At Trench 1, a discontinuous light sand layer separates the fill layer from the ~60 cm-thick (2 ft.) intact archaeological deposit underneath (*see* Appendix A, Figures 5 and 6). The surface slopes northward at Trench 1, and depth to contact with the prehistoric deposit varies from 90 cmbs (3 ft.) at the north end to about 30 cmbs (1.2 ft.) at the south end of the trench. Aside from modern refuse, no other cultural material was recovered from other trenches.

Subsequent boundary testing with Trenches 7, 8, 9, 15, and 16, was conducted on November 29 and 30, 2022, to ascertain the horizontal extent of the archaeological deposit in Trench 1 and whether a deposit exists along 447 Lockewood Lane. However, no prehistoric cultural resources were encountered in these five trenches and it remains unclear if the archaeological materials identified in Trench 1 can be directly associated with either of the two previously recorded archaeological sites.

The multicomponent archaeological site, P-44-000092/CA-SCR-88/H, which was originally recorded and excavated in 1974 (Heicksen 1974; Stafford 1974a, 1974b) is portrayed in close proximity, with the eastern boundary of the site plotted approximately 60 m (197 ft.) to the west of the positive trench, being mapped along both the east and west sides of Lockewood Lane. The description of the artifact assemblage at P-44-000092/CA-SCR-88 is similar to that recovered at Trench 1. Thus, the deposit identified in Trench 1 may be an extension or remnant pocket of P-44-000092/CA-SCR-88.

The negative results in Trenches 7, 8, 9, 15, 16 indicate that site P-44-000493/CA-SCR-343 is not present along the driveway to 447 Lockewood Lane. Although, the sections of the site record for P-44-000493/CA-SCR-343 indicated it may be along 447 Lockewood Lane and the current landowner (Sandy Woodruff, personal communication on June 14, 2022) indicated the unpaved driveway to this address has not changed since 2002, the trenching did not identify either midden or archaeological materials. Thus, site P-44-000493/CA-SCR-343, if the site is still extant, it is more likely at or adjacent to the southern boundary of the Project Area.

It is important to note that the undisturbed A horizon present within the Project Area and described in Stratum II in Section 4.1.1. and observed in multiple trenches (e.g., Trenches 1, 4, 3, 7), while resembling midden in color and texture, is not midden. Rather these soils are very dark grayish brown or black due to high levels of non-cultural organic materials. It is possible that this naturally dark A horizon soil may have been mistakenly identified as midden in the site records for P-44-000092/CA-SCR-88/H (Heicksen 1974; Stafford 1974a, 1974b) and P-44-000493/CA-SCR-343 (Cartier 2002).

A single isolated historic period bottle was recovered from Trench 15. The bottle was missing a neck but was embossed with "BEAM" on one shoulder indicating it contained Jim Beam bourbon. The makers mark on the base was an F in a hexagon, which was used by the Fairmount Glass Company from 1933-1971 (Lockhart et al. 2015). This end of the bottle's manufacturing date range corresponds with the beginning of the use of the golf course. A small pond was visible in this area on aerial imagery from 1968 and 1974, but not in 1982 and more recent images (Geo-Logic 2019:6). Given the presence of this pond and correspondence with the later end of the manufacturing date of the bottle, it is likely associated with use of the pond during the early years of the golf course operation. The Valley Gardens Golf Course was evaluated and found not eligible for listing on the CRHR (Reese et al. 2022). Thus, this isolated artifact does not indicate the presence of a significant historical resource or a unique archaeological resource.

## 5.0 SUMMARY AND CONCLUSIONS

This report documents Pacific Legacy's XPI investigation for the Valley Gardens Golf Course Redevelopment Project in Scotts Valley, California. The goal of the XPI investigation was to determine whether there are buried archaeological deposits present within the Project Area. The field component of the XPI investigation consisted of the excavation of 11 exploratory trenches.

Two previously recorded cultural resources, one Native American archaeological site (P-44-000493/CA-SCR-343) and one multi-component site (P-44-000092/CA-SCR-88/H), were previously recorded within but along the edges of the Project Area. One additional Native American archaeological site and two informally recorded historic period resources were previously recorded within 0.25-mile of the Project Area. P-44-000092/CA-SCR-88/H, is a multi-component site located along the west side of the Project Area, the recorded site boundary is largely outside of the Project Area. The Native American component is a lithic scatter and the historic period component is a peat bog (J. J. Graham Peat Bog) that was commercially harvested during ca. 1930 to 1940. Site P-44-000493/CA-SCR-343, was recorded as a sparse lithic scatter with midden on the southern boundary of the Project Area. Neither of these sites have been evaluated for listing in the NRHP or CRHR. Intensive pedestrian survey during the Phase I investigation (Reese et al. 2022) was unable to relocate these resources due to poor surface visibility during the survey and the potential for the resources to have been buried during construction and maintenance of the golf course.

In June 2022, Pacific Legacy completed XPI trenching at six locations as close as possible to the boundaries of the two previously recorded resources. Field constraints including buried utilities, traffic hazards, dense vegetation, and protected trees, limited the ability to excavate within the mapped site boundaries. Of these six trenches, only Trench 1 was positive for prehistoric cultural resources, while all other trenches were either negative for cultural materials or only recovered modern refuse or a single historic period isolate. The sparse prehistoric archaeological deposit was noted in Trench 1 at depths of about 90 to 150 cmbs (3-5 ft.bs) in an undisturbed, very dark grayish brown sandy matrix. The deposit was overlain by up to 90 cm (3 ft.) of disturbed soils some of which was fill placed to create an elevated golf course tee. Sparse, non-diagnostic, cultural materials, consisting solely of FCR, were noted in the disturbed soils between 0-90 cmbs (0-3 ft.bs). The Trench 1 assemblage consisted of sparse lithic debitage and FCR (including probable groundstone).

Based on the results of the June 2022 XPI trenching, additional XPI investigations were conducted in November 2022. Five additional trenches were excavated along an east-west line through the center of the Project Area. The purpose of these trenches was to define the boundary of the cultural deposit identified in Trench 1 and determine if cultural deposits associated with of P-44-000439/CA-SCR-343 are present along the driveway to 447 Lockewood Lane. None of these five trenches contained prehistoric cultural materials. The negative results indicated that P-44-000439/CA-SCR-343 is not present along the driveway to 447 Lockewood Lane and if it still exists is likely at or south of the southern boundary of the Project Area. The deposits identified in Trench 1 may be associated with P-44-000092/CA-SCR-88/H, which was mapped approximately 60 m (194 ft.) to the west. The cultural materials identified in Trench 1

may be an extension or remnant pocket of P-44-000092/CA-SCR-88 or may be an isolated deposit of sparse, non-diagnostic cultural materials.

Investigations to date have not revealed evidence of a historical resource or unique archaeological resource within the Project Area. Trenching in the southern and central portion of the Project Area has demonstrated that no significant, intact archaeological deposits are present in these areas. Although no cultural deposits were encountered during XPI investigations, outside of Trench 1, there remains the potential to encounter both isolated and intact cultural deposits during construction. Therefore, due to the presence of Native American cultural materials encountered subsurface in Trench 1, the presence of P-44-000092/CA-SCR-88/H on the western Project boundary and the unconfirmed presence of P-44-000439/CA-SCR-343 along the southern Project boundary, Pacific Legacy recommends archaeological monitoring for construction related ground disturbance in case of an unanticipated discovery.

Pacific Legacy recommends the development of an Archaeological Monitoring and Inadvertent Discovery Plan (AMIDP) to guide the monitoring required for specific types and depths of ground disturbance and provide protocols and procedures to be followed in the event of an unanticipated discovery including intact archaeological materials, features, and deposits or human remains. The AMIDP would define archaeological monitoring areas (AMA) and define the frequency of monitoring that is required within the AMAs (e.g., full-time, part time, or on-call monitoring) as appropriate. The determination of the intensity of monitoring will include factors such as proximity to previously identified cultural resources, depth of construction excavation, and depth of disturbed or fill soils. It is anticipated that full-time monitoring will not be required for all ground disturbing activities, rather a mix of full-time, part-time, and on-call will be appropriate for the Project. The plan will also provide an outline for archaeological awareness training for construction workers involved in ground disturbance to educate workers about the potential for archaeological resources, what to look for, what to do in the event of an unanticipated discovery, and communication protocols. In order to properly implement the guidelines in the plan, the AMIDP should be prepared well in advance of the start of construction.

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## APPENDIX A: REPORT FIGURES

Figure 1. Project Location and Vicinity Map for the Valley Gardens Golf Course Redevelopment Project.
Figure 2. Project Area, Valley Gardens Golf Course Redevelopment Project.
Figure 3. Extended Phase I Trenches and Previously Recorded Resources.
Figure 4. Extended Phase I Trenching Showing Proposed and Previously Excavated Trenches.
Figure 5. Photographs of Trenching Operations at Trench 1 (top) and Trench 4 (bottom).
Figure 6. Photographs and Generalized Profiles of Soil Stratigraphy for Trench 1 (top) and Trench 4 (bottom).
Figure 7. Photographs and Generalized Profiles of Soil Stratigraphy for Trench 7 (top) and Trench 9 (bottom).
Figure 8. Photographs and Generalized Profiles of Soil Stratigraphy for Trench 15 (top) and Trench 16 (bottom).
Figure 9. Photographs of Prehistoric Cultural Materials Recovered from Trench 1.

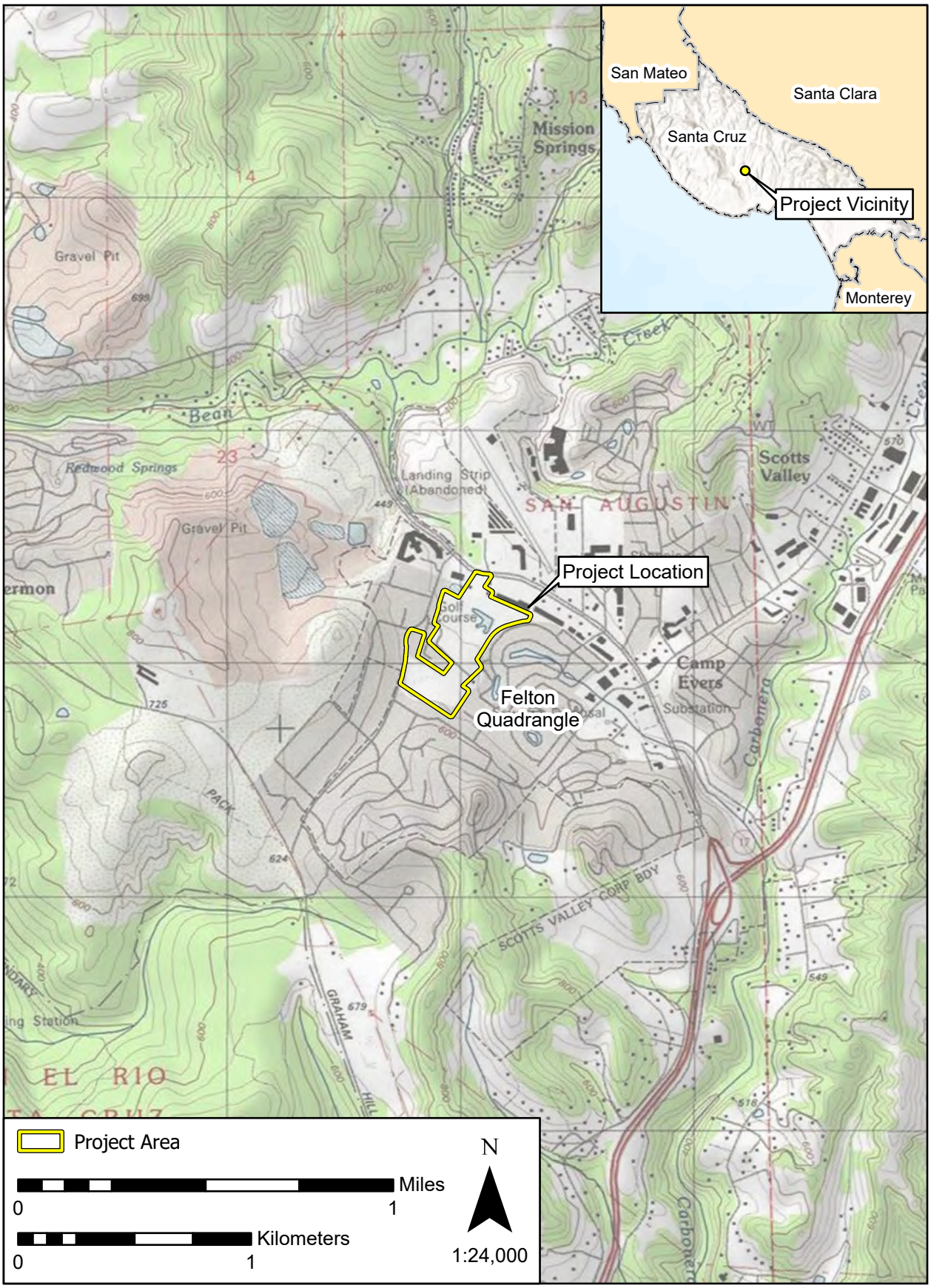



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Figure 5. Photographs of Trenching Operations at Trench 1 (top) and Trench 4 (bottom).

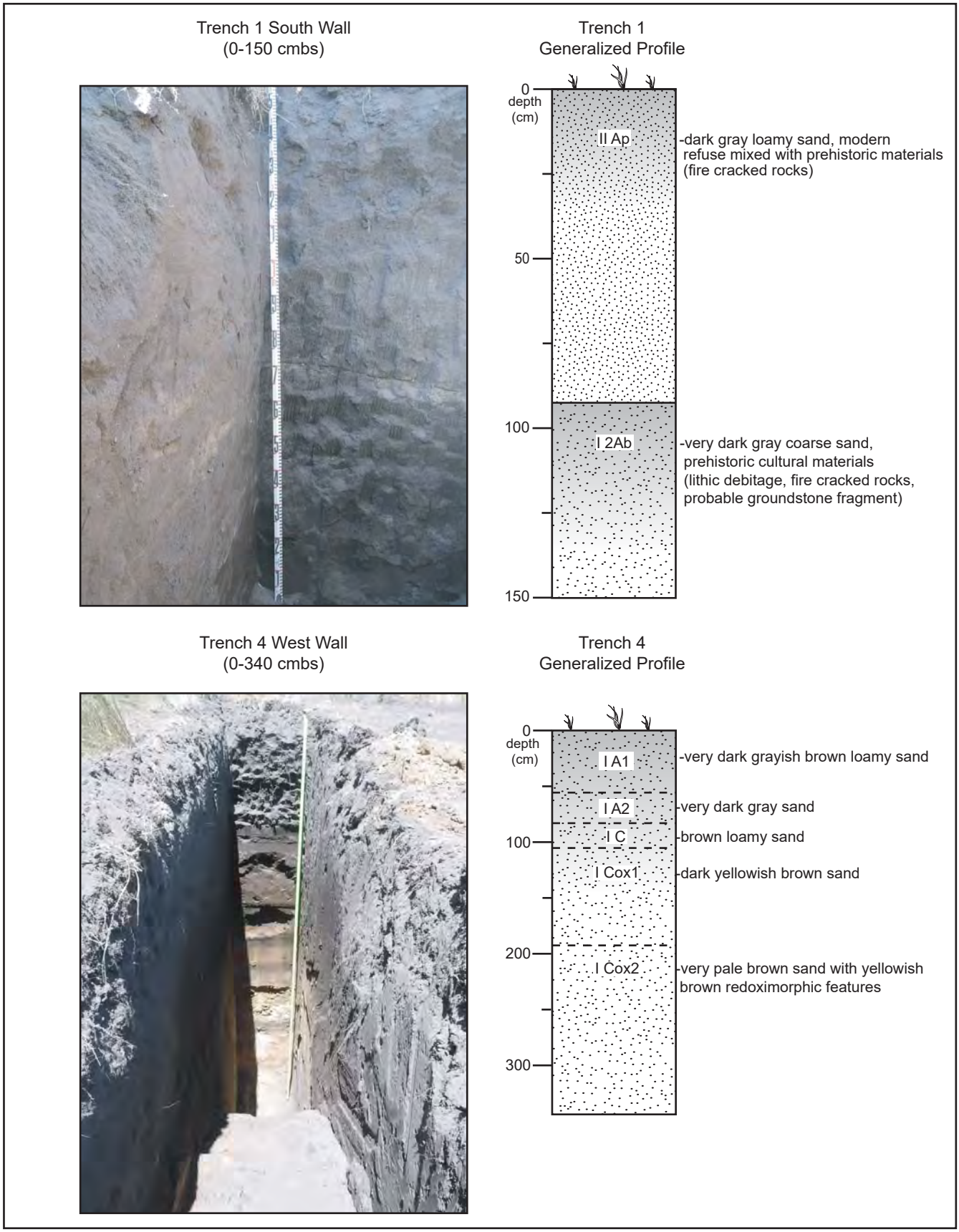
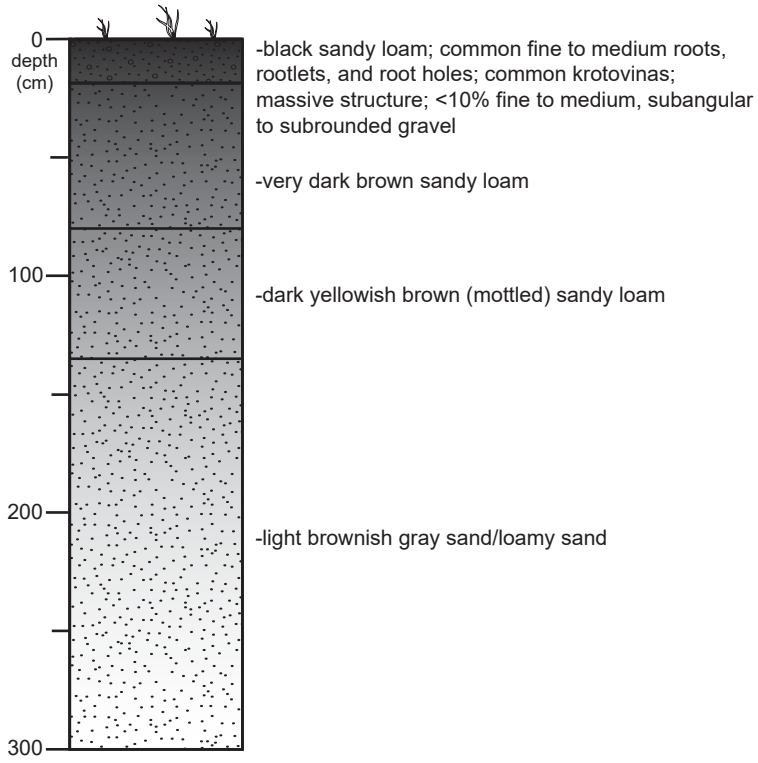



Figure 6. Photographs and Generalized Profiles of Soil Stratigraphy at Trenches 1 (top) and 4 (bottom).

Trench 7 South Wall
(0-300 cmbs)



Trench 7
Generalized Profile




Trench 9 South Wall
(0-170 cmbs)



Trench 9
Generalized Profile

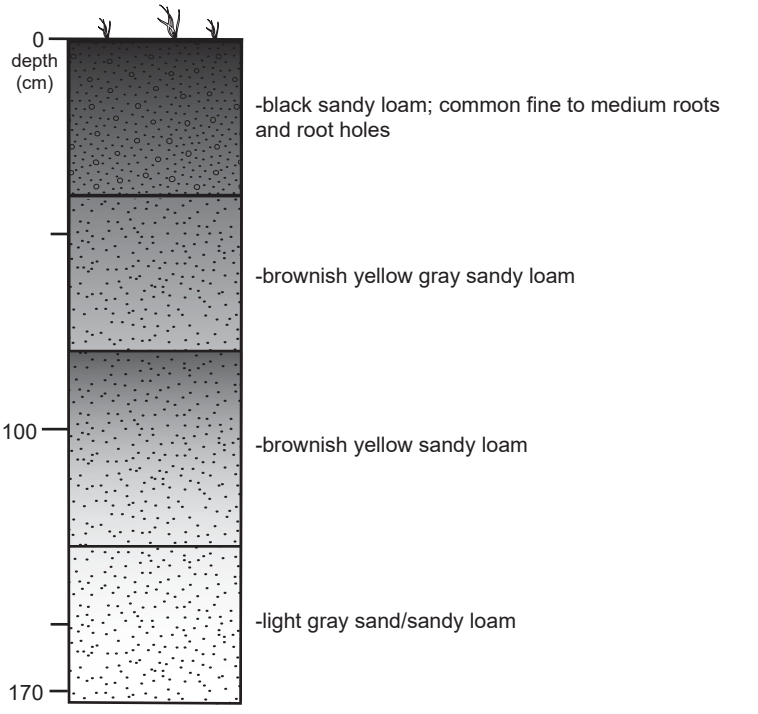
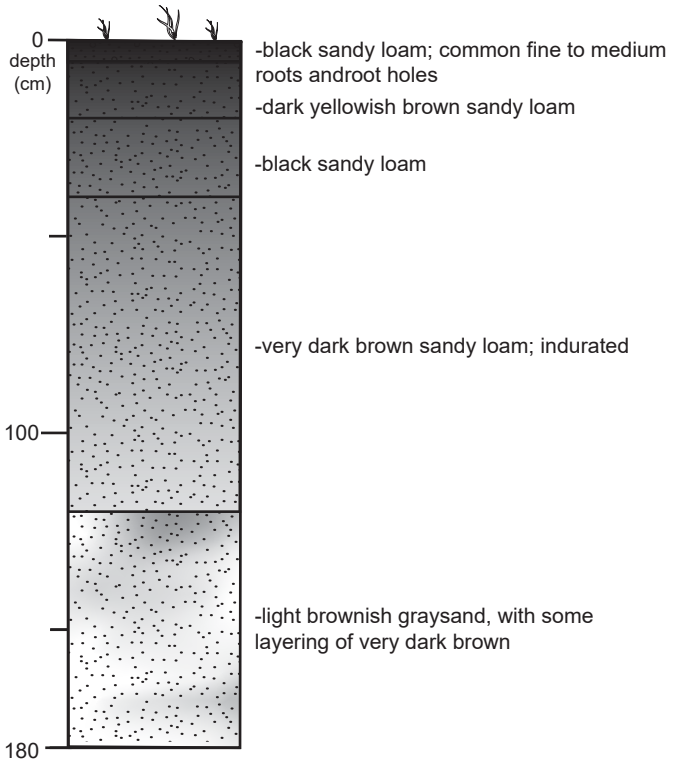



Figure 7. Photographs and Generalized Profiles of Soil Stratigraphy at Trenches 7 (top) and 9 (bottom).

Trench 15 North Wall
(0-180 cmbs)



Trench 15
Generalized Profile




Trench 16 South Wall
(0-145 cmbs)



Trench 16
Generalized Profile

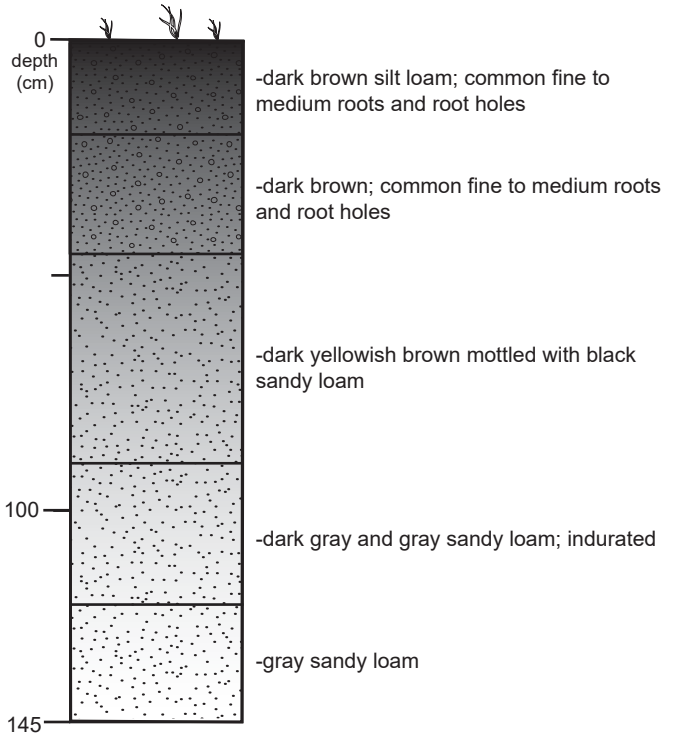



Figure 8. Photographs and Generalized Profiles of Soil Stratigraphy at Trenches 15 (top) and 16 (bottom).




Figure 9. Photographs of Prehistoric Cultural Materials Recovered from Trench 1.

# APPENDIX B: TRENCH DESCRIPTIONS AND DIMENSIONS

The following trench descriptions are from field notes with little subsequent modification. Strata have not been correlated between trenches. Where data are absent (i.e., Munsell color designations), such data were not collected in that trench or for that soil horizon. Observations below 150 cmbs were generally made from trench spoils. All trenches were 0.6 m wide.

***Trench 1, South Wall: 4.6 m long, 2.15 m deep. Coordinates in UTM, Zone 10, NAD 83: NE Corner- 585822, 4100385; SE Corner-585820, 4100381.***

| Depth (cmbs) | Stratum | Horizon | Description |
|---|---|---|---|
| 0-90 | II | Ap | 10 YR 4/1 (D) dark gray loamy sand; massive; <10% fine to medium, subangular to subrounded gravels; soft; abrupt and smooth boundary; common, fine roots and rootholes; thins to north away from sloped and landscaped terrace; modern refuse (plastics, metal, etc.) and two prehistoric fire cracked rock fragments. |
| 90-150 | I | 2Ab | 10 YR 3/1 (D) very dark gray coarse, subrounded to rounded sand; massive; <10% fine to medium, subrounded gravels; slightly hard; clear and wavy boundary; few fine rootholes and roots; prehistoric cultural materials consisting of 8 fire cracked rock fragments (including possible groundstone fragment) and three Monterey banded chert flakes. |
| 150-295 | I | 2C1 | 10 YR 3/2 (D) very dark grayish brown sand; massive; no gravels; slightly hard; clear and wavy boundary; no cultural materials. |
| 195-215 | I | 2C3 | 10 YR 4/3 (D) very dark grayish brown sandy loam; massive structure; no gravels; soft; boundary unexcavated. |

***Trench 2, South Wall: 3.7 m long, 1.8 m deep. Coordinates in UTM, Zone 10, NAD 83: NE Corner-585685, 4100298; SE Corner- 585685, 4100295.***

| Depth (cmbs) | Stratum | Horizon | Description |
|---|---|---|---|
| 0-80 | III | A | 10 YR 3/1 (D) very dark gray silt loam; massive structure; <10% fine, subangular to subrounded gravels; slightly hard; clear and smooth boundary; common fine to medium roots and root holes. |
| 80-105 | III | C | 10 YR 7/1 (D) light gray sand; single grain; loose; abrupt and smooth boundary. few, fine roots and rootholes. |
| 105-125 | II | 2Ab | 10 YR 3/1 (D) very dark gray sand; single grain; loose; abrupt and smooth boundary; very few fine roots; horizon thins to north and east. |
| 125-145 | II | 2C | 10 YR 7/1 (D) light gray medium, rounded sand; single grain; loose; abrupt and smooth boundary. |
| 145-180 | I | 3C | 10 YR 2/1 (D) black, medium, rounded loamy sand; massive; soft; boundary unexcavated; common fine roots and root holes. |

***Trench 3, North Wall: 4.7 m long, 2.9 m deep. Coordinates in UTM, Zone 10, NAD 83: SW Corner- 585700, 4100204; SE Corner- 585705, 4100202.***

| Depth (cmbs) | Stratum | Horizon | Description |
|---|---|---|---|
| 0-98 | V | Ap | 10 YR 4/1 (M) brown sandy loam; massive; <10% fine to medium, subangular gravels; slightly hard; abrupt and smooth boundary; common, fine roots and rootholes; modern refuse (ferrous metal fragments, plastics, concrete fragments); artificial fill mixed with native soil. |
| 98-180 | IV | 2Ab | 10 YR 2/1 (M) black loamy sand; single grain; <5% fine to medium, subrounded gravel; soft; clear and wavy boundary; common, fine roots and rootholes; no cultural material. |
| 180-270 | III | 2C | 10 YR 3/1 (D) very dark gray, coarse, well-rounded sand; single grain; soft; boundary not examined. |
| 270-280 | II | 3C | 10 YR 4/1 (D) brown, coarse, well-rounded sand; single grain; loose; boundary not examined. |
| 280-290 | I | 4C | 10 YR 2/1 (M) black silty clay loam; massive; slightly hard to hard; possible lacustrine deposit. |

***Trench 4, West Wall: 4.6 m long, 3.4 m deep. Coordinates in UTM, Zone 10, NAD 83:***
***SW Corner- 585724, 4100102; SE Corner- 585728, 4100098.***

| Depth (cmbs) | Stratum | Horizon | Description |
|---|---|---|---|
| 0-55 | I | A1 | 10 YR 3/2 (D) very dark grayish brown loamy sand; massive; <5% medium to coarse, subrounded to rounded gravel; slightly hard; clear and smooth boundary; common, fine roots, rootlets, and rootholes; common krotovina; few sandstone cobbles; no cultural material. |
| 55-85 | I | A2 | 10 YR 3/1 (D) very dark gray sand; single grain; no gravels; loose; clear and wavy boundary; few krotovina; few fine roots and rootholes. |
| 85-105 | I | C | 10 YR 4/3 (D) brown loamy sand; massive structure; soft; clear and wavy boundary; few, fine calcium carbonate soft masses. |
| 105-190 | I | Cox1 | 10 YR 3/4 (D) dark yellowish brown sand; massive; soft; gradual and wavy boundary; few brownish yellow redoximorphic features; weathered Santa Margarita Sandstone. |
| 190-340 | I | Cox2 | 10 YR 8/2 (D) very pale brown sand; massive; soft; gradual and wavy boundary; very common brownish yellow redoximorphic features; weathered Santa Margarita Sandstone. |

***Trench 5, East Wall: 4.6 m long, 1.9 m deep. Coordinates in UTM, Zone 10, NAD 83:***
***SW Corner- 585778, 4100053; SE Corner- 585783, 4100052.***

| Depth (cmbs) | Stratum | Horizon | Description |
|---|---|---|---|
| 0-58 | I | A1 | 10 YR 3/2 (D) very dark grayish brown loamy sand; massive; <10% fine to medium, subangular to subrounded sandstone gravel; slightly hard; clear and smooth boundary; common, fine roots, rootlets, and rootholes; common krotovina. |
| 58-94 | I | A2 | 10 YR 3/1 (D) dark gray sand; single grain; no gravels; loose; clear and wavy boundary; few krotovina; few fine roots and rootholes. |
| 94-118 | I | C | 10 YR 4/3 (D) brown loamy sand; massive structure; soft; clear and wavy boundary; few, fine calcium carbonate soft masses. |
| 118-180 | I | Cox1 | 10 YR 3/4 (D) dark yellowish brown; massive; soft; gradual and wavy boundary; few brownish yellow redoximorphic features; weathered Santa Margarita Sandstone. |
| 180-190 | I | Cox2 | 10 YR 8/2 (D) very pale brown; massive; soft; gradual and wavy boundary; very common brownish yellow redoximorphic features; weathered Santa Margarita Sandstone. |

***Trench 6, West Wall: 2.5 m long, 0.95 m deep. Coordinates in UTM, Zone 10, NAD 83:***
***NW Corner- 617978, 4269026; SW Corner- 617978, 4269024.***

| Depth (cmbs) | Stratum | Horizon | Description |
|---|---|---|---|
| 0-54 | I | A1 | 10 YR 3/2 (D) very dark grayish brown loamy sand; massive; <10% fine to medium, subangular to subrounded sandstone gravel; slightly hard; clear and smooth boundary; common, fine roots, rootlets, and rootholes; common krotovina. |
| 54-95 | I | A2 | 10 YR 3/1 (D) dark gray sand; single grain; no gravels; loose; clear and wavy boundary; few krotovina; few fine roots and rootholes. |

***Trench 7, South Wall: 6.0 m long, 3.35 m deep. Coordinates in UTM, Zone 10, NAD 83: SE Corner- 585837, 4100406; SW Corner- 585832, 4100410.***

| Depth (cmbs) | Stratum | Horizon | Description |
|---|---|---|---|
| 0-40 | II | Ap | 10 YR 2/1 (D) black sandy loam; massive structure; <10% fine to medium, subangular to subrounded gravel; soft; gradual boundary; common fine to medium roots, rootlets, and root holes; common krotovina. |
| 40-80 | I | 2A1b | 10 YR 2/2 (D) very dark brown loamy sand; massive structure; soft; diffuse boundary. |
| 80-135 | I | 2A2b | 10 YR 4/4 (D) dark yellowish brown (mottled) sandy loam; massive structure; <10% fine to medium, subangular to subrounded gravel; slightly hard; clear, smooth boundary. |
| 135-300 | I | 2C | 10 YR 6/2 (D) light brownish gray sand; massive structure; <10% fine to medium, subangular to subrounded gravel; slightly hard. |

***Trench 8, East Wall: 4 m long, 1.8 m deep. Coordinates in UTM, Zone 10, NAD 83: NE Corner- 585835, 4100297; SE Corner- 585831, 4100291.***

| Depth (cmbs) | Stratum | Horizon | Description |
|---|---|---|---|
| 0-40 | II | Ap | 10 YR 3/1 (D) very dark gray sandy loam; massive structure; <10% fine to medium, subangular to subrounded gravel; soft; irregular diffuse boundary; common fine to medium roots, rootlets, and root holes; common krotovina. |
| 40-55 | I/II | 2A1b | Mottled 10 YR 3/1 (D) very dark gray & 10 YR 6/6 brownish yellow loamy sand; massive structure; <10% fine to medium, subangular to subrounded gravel; slightly hard; abrupt and irregular boundary. |
| 55-150 | I | 2A2b | 10 YR 6/6 (D) brownish yellow sandy loam; massive structure; <10% fine to medium, subangular to subrounded gravels; slightly hard; diffuse boundary. |
| 150+ | I | 2C | 10 YR 3/6 (D) dark yellowish brown sand; massive structure; slightly hard. |

***Trench 9, East Wall: 5 m long, 1.7 m deep. Coordinates in UTM, Zone 10, NAD 83:***
***NE Corner- 585880, 4100260; SE Corner- 585877, 4100255.***

| Depth (cmbs) | Stratum | Horizon | Description |
|---|---|---|---|
| 0-40 | II | Ap | 10 YR 2/1 (D) black sandy loam; massive structure; soft; clear and smooth boundary; common fine to medium roots, rootlets, and root holes; common krotovina. |
| 40-80 | I/II | 2A1b | Mottled 10 YR 6/6 (D) brownish yellow and 10 YR 6/1 gray sandy loam; massive structure; slightly hard; clear and smooth boundary. |
| 80-130 | I | 2A2b | 10 YR 6/8 (D) brownish yellow sandy loam; massive structure; slightly hard; clear and smooth boundary. |
| 130-170 | I | 2C | 10 YR 7/2 (D) light gray sand; massive structure; slightly hard. |

***Trench 15, North Wall: 4 m long, 1.8 m deep. Coordinates in UTM, Zone 10, NAD 83:***
***NE Corner- 585830, 4100318; NW Corner- 585826, 4100321.***

| Depth (cmbs) | Stratum | Horizon | Description |
|---|---|---|---|
| 0-5 | II | Ap1 | 10 YR 2/1 (D) black sandy loam; clear and smooth boundary; massive structure; soft; common fine to medium roots, rootlets, and root holes; common krotovina. Golf balls. |
| 5-20 | II | Ap2 | Mottled 10 YR 3/4 (D) dark yellowish brown sandy loam; massive structure; soft; clear and smooth boundary; common fine to medium roots, rootlets, and root holes; common krotovina. Golf balls. |
| 20-40 | II | Ap3 | 10 YR 2/1 (D) black sandy loam; massive structure; soft; clear and smooth boundary. |
| 40-120 | I | 2A1b | 10 YR 2/2 (D) very dark brown sandy loam; massive structure; indurated; clear and smooth boundary; a clear glass bottle with the Fairmount Glass Company makers mark (1933-1971) was located towards the bottom of this stratum. This sediment may correspond with an old pond which was visible in the area on 1968 and 1974 aerial imagery (Geo-Logic Associates 2019:9) |
| 120-180 | I | 2ACb | 10 YR 6/2 (D) light brownish gray sand, with some layering of 10 YR 2/2 (D) very dark brown; massive structure; slightly hard. |

***Trench 16, South Wall: 4.6 m long, 1.45 m deep. Coordinates in UTM, Zone 10, NAD 83:***
***SE Corner- 585843, 4100361; SW Corner- 585839, 4100363.***

| Depth (cmbs) | Stratum | Horizon | Description |
|---|---|---|---|
| 0-20 | II | Ap1 | 10 YR 3/3 (D) dark brown silt loam; soft; diffuse boundary; common fine to medium roots, rootlets, and root holes; common krotovina. Abundant golf balls. |
| 20-45 | II | Ap2 | 10 YR 3/3 (D) dark brown sandy loam; soft; clear and smooth boundary; common fine to medium roots and root holes. Abundant golf balls. |
| 45-90 | I | 2A1b | Mottled 10 YR 4/6 (D) dark yellowish brown and 10 YR 2/1 (D) black sandy loam; soft; abrupt and smooth boundary. |
| 90-130 | I | 2A2b | Mottled 10 YR 4/1 (D) dark gray and 10 YR 6/1 gray sandy loam; clear and smooth boundary. |
| 130-145 | I | 2C | 10 YR 6/1 (D) gray sandy loam. |

# APPENDIX C: SITE RECORD UPDATES

***Recorded By:** Graham Dalldorf, Hannah Ballard, and Marc Greenberg ***Date:** 1/16/2023

This site record update documents the results of Extended Phase I (XPI) trenching at the adjacent Valley Gardens Golf Course. A total of 11 trenches were excavated for the XPI trenching project. One trench (Trench 1) was located about 60 meters (194 ft.) east of the site boundary for the site, and another (Trench 2) was located about 30 meters (97 ft.) to the south of the site boundary. Trench 1 was positive for prehistoric cultural materials, while Trench 2 was negative. UTM Zone 10 (NAD83) coordinates for Trench 1 are 585820 meters east, 4100381 meters north. The other nine trenches were negative for prehistoric and historic period deposits.

A sparse prehistoric archaeological deposit was noted in Trench 1 at depths of about 90 to 150 cm below surface (3 ft to 5 ft below surface) under mixed fill constituting the surface at the south end of the trench. Artifacts observed consist of three cryptocrystalline silicate (CCS; Monterey banded chert) flakes, and eight fire cracked rocks (FCR), including one FCR fragment that is a probable groundstone (mano) fragment, and a large cobble hammerstone fragment. Two of the FCR fragments were recovered from the fill layer overlying the relatively undisturbed archaeological deposit, but they are likely out of primary context (i.e., in secondary context mixed with fill containing modern refuse). At Trench 1, a discontinuous light sand layer separates the fill layer from the intact archaeological deposit underneath characterized by a matrix of very dark grayish brown sand. The archaeological deposit may be associated with the archaeological site P-44-000092/CA-SCR-88/H, which is plotted approximately 60 m (194 ft.) to the west. The cultural materials identified in Trench 1 may be an extension or remnant pocket of P-44-000092/CA-SCR-88/H or may be an isolated deposit of sparse, non-diagnostic cultural materials.

Based on the positive results for prehistoric materials in Trench 1, five additional trenches (Trench 7, 8, 15, and 16) were arrayed around Trench 1, to the northeast (Trench 7), east (Trench 16), and southeast (Trench 8, 9, and 15). The intent was to determine if the subsurface archaeological deposit continued within the Project Area. Aside from modern refuse including abundant golf balls, only one isolated historic period artifact, a Jim Beam bourbon bottle was found in Trench 15.

The isolated historic period colorless liquor bottle recovered from Trench 15, was missing a neck and however was embossed with “BEAM” on one shoulder indicating it contained Jim Beam bourbon. The makers mark on the base was and F in a hexagon, which was used by the Fairmount Glass Company from 1933-1971 (Lockhart et al. 2015). This end of the bottle’s manufacturing date range corresponds with the beginning of the use of the golf course. A small pond was visible in this area on aerial imagery from 1968 and 1974, but not in 1982 and more recent images (Geo-Logic 2019:6). Given the presence of this pond and correspondence with the later end of the manufacturing date of the bottle, it is likely associated with use of the pond during the early years of the golf course operation. The Valley Gardens Golf Course was evaluated and found not eligible for listing on the CRHR (Reese et al. 2022). Thus, this isolated artifact does not indicate the presence of a significant historical resource and is not associated with P-44-000092/CA-SCR-88/H.

No Native American or significant historic period cultural materials were identified in any of these trenches.

**References:**

Dalldorf, Graham, Hannah Ballard, Aleck Tan, and Marc Greenberg
2023 Extended Phase I Report for the Valley Gardens Golf Course Redevelopment Project, Santa Cruz County, California. Report prepared by Pacific Legacy, Bay Area Office, Berkeley, California, for Robson Homes.

Geo-Logic Associates
2019 Geotechnical Investigation Residential Development 263 Mount Hermon Road, Scotts Valley, California. Report prepared by Geo-Logic Associates, DBA Pacific Geotechnical Engineering, for Robson Homes, San Jose, California.

Lockhart, Bill, Beau Schriever, Bill Lindsey, and Carol Serr.
2015 Fairmount Glass Works. Historic Glass Bottle Identification & Information Website, E-published July 2015. Article on the history, products and markings for several related companies operating from the late-19th to the mid-20th centuries. Electronic document http://www.sha.org/bottle/pdffiles/FairmountGlass.pdf, accessed January 2023.

Reese, Elena, Marc Greenberg, R. Scott Baxter, William McHugh, and Hannah Ballard
2022 Cultural Resources Report for the Valley Gardens Golf Course Redevelopment Project, Santa Cruz County, California. Report prepared by Pacific Legacy, Bay Area Office, Berkeley, California, for Robson Homes.

***Recorded By:** Graham Dalldorf ***Date:** 6/14/2022



Trench 1 overview, view to southwest. Light sand layer seperates fill from native ground surface.



Trench 1 profile 0-150 cmbs, south and east walls. Soil pick at 100 cmbs with in situ chert flake.

***Recorded By:** Graham Dalldorf ***Date:** 6/14/2022




Prehistoric materials from Trench 1, including 7 FCR (1 probable groundstone fragment in center) and 3 CCS debitage (lower left)


T7
T1
T16
44-000092
T15
T8
T2
T9
T3
Dirt Driveway to 447 Lockewood Lane
T6
T4
44-000493
T5
Excavated Negative Trench (T#)
Excavated Positive Trench (T#)
Project Area
Cultural Resources
N
0 50 100 150 200
Meters
0 150 300 450 600
Feet
1:4000

site # SCl (SCr) SMa SBn Mnt Ala Mer

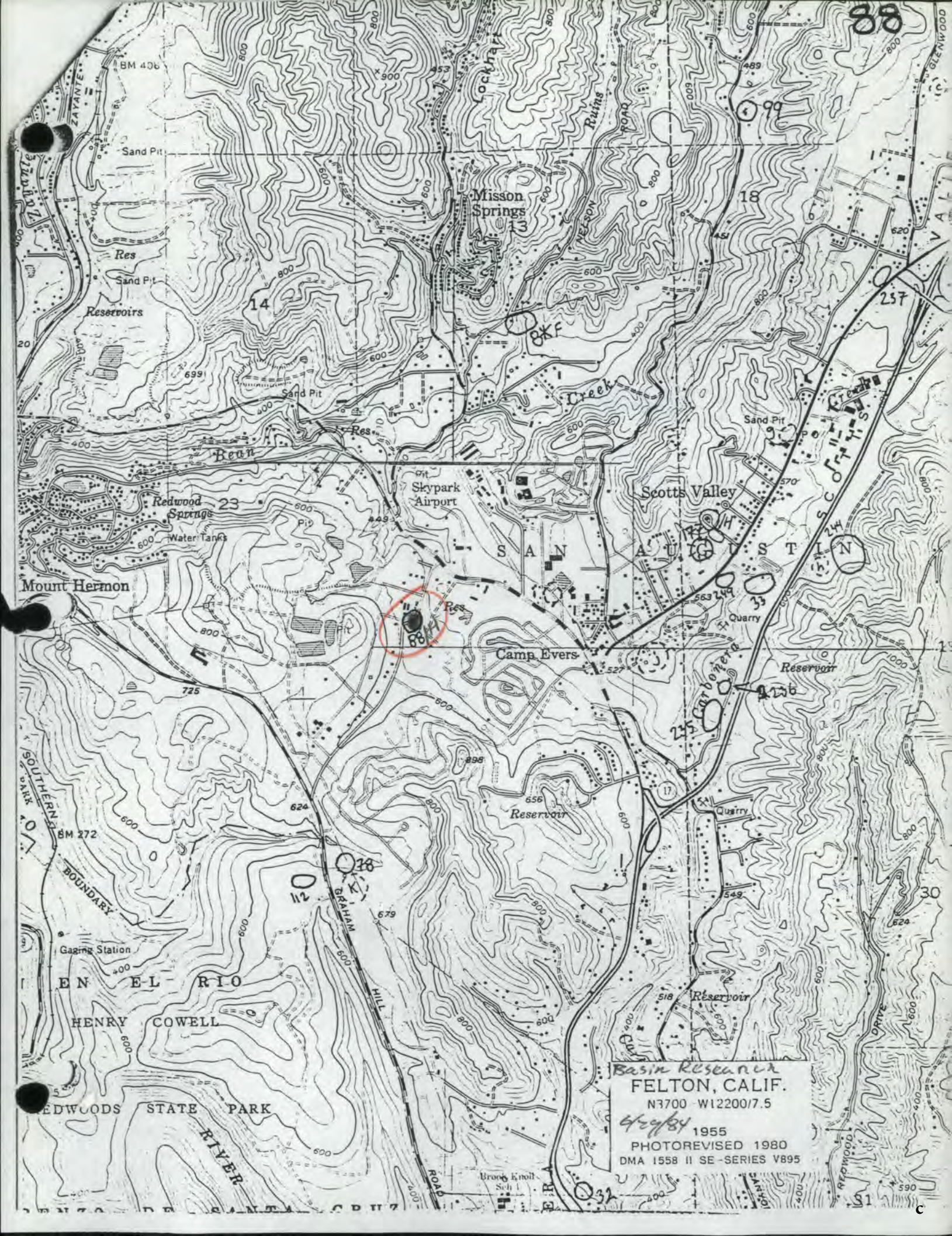
SCr (1)

| | NO ELEVATION | WRONG ELEVATION | CORRECTED ELEVATION | ORIGINAL ON 15' | ORIGINAL PLOTTED INCORRECT | TOPO CHANGE | ORIGINAL NOT ON TOPO | NO MAP IN SITE FORM | XEROX MAP FOR SON. | COULD NOT LOCATE | ADD (/H) | ADD (H) | DROP (/H) | CASTLE ROCK RIDGE | CHITTENDON | FELTON | HOLLISTER | LAUREL | LOMA PRIETA | LOS GATOS | MOSS LANDING | PRUNEDALE | SAN FELIPE | SAN JUAN BAUTISTA | THREE SISTERS | TRES PINOS | WATSONVILLE EAST | WASTONVILLE WEST | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | | X | 1123 | X | | | | | X | | | | | | X | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 now part of SCr 3 |
| 8 | | X | 400 | X | | | | | X | | | | | | X | | | | | | | | | | | | | | UTM 5 86360 41 0176 |
| 32 | X | | 420 | X | | | | | X | | | | | | X | | | | | | | | | | | | | | UTM 5 86750 40 9703 |
| 33 | X | | 530 | X | | | | | X | | | | | | X | | | | | | | | | | | | | | UTM 5 87660 40 0035 |
| 41 | | | | | | | X | | X | | | | | | | | | | | | | | | | | X | | | 6 05270 40 8444 |
| 42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | SEr 42 now SCr 3 |
| 44 | | | | | | | | | X | | | | | | | | | | | | | | | | X | | | | UTM 6 12100 40 8894 |
| 51 | | X | 85 | | | | X | | X | | | | | | | | | | | | | | | | X | | | | UTM 6 11800 40 9146 |
| 54 | | X | 80 | | | | X | | X | | | | | | | | | | | | | | | | | X | | | |
| 60 | | X | 90 | | | | X | | X | | | | | | | | | | | | | | | | | X | | | |
| 61 75 K 76 | | X | 62 | | | | X | | X | | | | | | | | | | | | | | | | | X | | | |
| 78 on Fig 4 | | X | 630 | | | | X | | X | | | | | | X | | | | | | | | | | | | | | |
| 84 | | | | | | | X | | X | | | | | | | X | | | | | | | | | | | | | |
| 88 H | | X | 565 | | | | X | | X | | | | | | X | | | | | | | | | | | | | | |
| 90 | | | | | | | X | | X | | | | | | | X | | | | | | | | | | | | | should be T+R Sec. 26 |
| 92 | | | | | | | X | | X | | | | | | | | X | | | | | | | | | | | | |
| 94 | | | | | | | X | | X | | | | | | X | | | | | | | | | | | | | | |
| 100 | | X | 120 | | | | X | | X | | | | | | | X | | | | | | | | | | | | | |
| 101 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | UTM 6 05200 40 8200 |
| 102 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | 6 05450 40 8150 |
| 103 | | | | | | | | | | X | | | | | | | | | | | | | | | X | | | | |
| 104 | | | | | | | | | X | | | | | | | | | | | | | | | | X | X | | | |
| 105 | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | |


BASIN RESEARCH ASSOCIATES, INC.
Cultural Resource Services
June 29, 1984
Project Office
31162 San Clemente Street
Suite 110
Hayward, CA 94544
415-487-0923
415-487-0924




c


Basin Research
FELTON, CALIF.
N3700 W12200/7.5
6/29/84
1955
PHOTOREVISED 1980
DMA 1558 II SE-SERIES V895
Mount Hermon
Redwood Springs
Water Tanks
Skypark Airport
Scotts Valley
Camp Evers
Reservoir
Quarry
Sand Pit
Reservoirs
Misson Springs
Bean Creek
Nelson Road
Ruins
Zayante
BM 406
BM 272
Gaging Station
HENRY COWELL
REDWOODS STATE PARK
SOUTHERN PACIFIC BOUNDARY
GRAHAM HILL ROAD
SAN LORENZO RIVER
Brook Knoll Sch
GLENWOOD DRIVE
SAN LORENZO VALLEY
Carbonera Creek

S-3937

CA-SCR-88/H

1st Anniversary Edition !!!

# Scotts Valley Historical Society



PAUL SWEET TANNERY

July 1976

## THE PAUL SWEET TANNERY
### 1840-1874

During the last half of the nineteenth century, one of the most important industries in Santa Cruz County was the manufacture of leather. The first known commercial tannery established in the county and in California was the Paul Sweet Tannery in Scotts Valley.

The quality of leather from this area was superior to any in the world because of the ready availability of hides and the abundant supply of tan oak trees, which yielded the best kind of bark for tanning.

The Paul Sweet Tannery was located on twelve acres near where Lockwood Lane and Mount Hermon Road intersect. In approximately 1840 Francisco LaJeunesse, a French Canadian trapper, began tanning hides on that site. The land, a part of the Rancho San Augustin, was owned by a naturalized Mexican citizen Joseph L. Majors. Eventually, LaJeunesse left to join Captain John Fremont, leaving the tannery to Paul Sweet in 1843.

At the time Sweet operated the tannery, it consisted of eight vats, made of split redwood logs. The logs were dug out in an oval shape and measured five feet wide and two and one half feet deep. The hides were soaked in these vats which contained the tan oak bark solution ~~until the air was loosened~~. The bark itself was ground by a large horse-driven wooden wheel, grinding about one half cord of bark per day. The tannery had the capability of processing about 200 steer hides and 300 deer hides annually.

In 1846 Sweet joined the Bear Flag battalion selling the tannery business to Pauline Weaver and Pruitt Saint Clair. In 1847 William Blackburn bought the tannery. He brought in Richard C. Kirby to run it for him, paying him $75.00 per month. In 1852 Kirby married and moved to Santa Cruz. Blackburn sold out his interest at that time. Kirby had also worked his own tannery in the Squabble Hollow or Glen Canyon area. He is most famous, however, for his large tannery in Santa Cruz.

The Scott family probably took possession of the tannery in 1852 when they moved into the area. It was lying idle, however, in July of 1864 when John Wagner and his brothers-in-law Robert Anderson and Gottleib Zeigler leased it from Joseph Scott, then owner of the property. The men signed a ten year lease paying $30.00 per year. Wagner had been working for Kirby in Santa Cruz but did not like Kirby's idea of using the Chinese as a cheap source of labor. Despite the latest methods employed by Wagner and his partners, it took about one year for a hide to complete the tanning process.

In 1874 the lease expired and the three men decided to try farming, a more secure and profitable occupation. Wagner bought a portion of Tres Ojo de Aqua Rancho in Santa Cruz, a part of which later became Harvey West Park. His son, Fred Wagner, still lives on the property in his father's house. We are grateful to Mr. Wagner for sharing the picture of the tannery which he had drawn from memory. He was one of the last persons to see the building before it burned in the forest fire of 1929.

There is little record of the tannery after 1874. In 1869 the property had been sold to D.M. Locke, a dairyman. The bark by this time was less accessible, which made the operation more time consuming and costly. As late as 1888, the voter registration records list George M. Shippy as a tanner residing in Scotts Valley. By 1895, however, he had become the owner of the Rock Farm Dairy, south of the Manana Woods area.

Most of the surviving tannery structures were destroyed in 1929 with the exception of the bunkhouse. Local residents have said that it was built in 1859 to house the tannery workers, but more than likely it was built after 1864. The J.J. Graham family was living in it at the time of the fire and were able to save it. In 1937 it was remodeled and from 1947-1968 it was used as a rental. The Graham family donated it to Pinnacle Pass in September 1969, and it presently serves as the dining room for Cassidy's Pizza Parlor.

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### SOURCES


Bancroft, Hubert Howe. *History of California.* The History Co., Vol. vii, 1890.

McHugh, Tom. *The Frontier Gazette,* Vol. I, No. iv, Summer 1958.

*Riptide,* Published 21 Vine St., Santa Cruz, Calif. Vol. 21 No. 41, Oct. 6, 1949.

Rowland, Leon. *Annals of Santa Cruz.* Privately printed in 1947.

Rowland, Leon. *Files.* Courtesy of Jeanette Rowland.

Willey, S.H. and others. *History of Santa Cruz County, California.* Published by Wallace W. Elliot and Co., S.F., Calif. 1879.

Records from the Santa Cruz County Archives.

*"The Bunkhouse"* from Cassidy's Pizza Parlor, Pinnacle Pass, Scotts Valley.

Graham, Bill Interview 1975

McHugh, Tom Interview 1976

Wagner, Fred Interview 1976

Picture of Paul Sweet Tannery, loaned to the Scotts Valley Historical Society by Fred Wagner. Original drawn in 1973 by Gary Masamori. Redrawn under direction of Mr. Wagner in 1976 by Mrs. Agnes Knox Lewis for the Scotts Valley Historical Society.


Researched and written by Charlene Detlefs.

Edited by Janice L. Bowman.



CA-SCR-88/H

P-44-000092

California State Site Designation _____

5-6296

# CABRILLO COLLEGE ARCHAEOLOGICAL SITE SURVEY RECORD

SCR-83/H

USGS 7.5 SERIES (408D)(1980)

1. C.A.S. Site SCOTTS VALLEY 2/28/74 2. Map FELTON QUAD 3. County SANTA CRUZ
4. TWN SPANISH LAND GRANT; SAN AUGUSTIN Range _____; _____ ¼ of _____ ¼ of Sec. _____
5. Location EAST SIDE OF LOCKEWOOD LANE OPPOSITE TWIN PINES DRIVE, SCOTTS VALLEY, CALIFORNIA.

U.T.M.G. Coordinate 854/001 (UTM: 585830E, 4100160N) 6. Contour elevation 500'
7. Previous designations for site NONE
8. Owner ADRIANNA INVESTMT CO. Address SUITE 319, THE TOWERS, CAMPBELL, CAL, 95008
10. Previous owners, dates MR. WM. GRAHAM, 692 MT. HERMON RD., SCOTTS VALLEY
11. Present tenant NAME NOT DETERMINED- IN RESIDENCE ON A.P. # 21-011-8.
12. Attitude toward excavation NOT DETERMINED
13. Description of site ALMOST LEVEL, WITH NATURAL LAKE IN CENTER; DRAINAGE AREA HEAVILY OVERGROWN WITH WILLOWS AND BRUSH. POSSIBLY AN AREA OF HUNTING ACTIVITIES WITH SPARSELY SCATTERED CHERT FLAKES, NO MIDDEN OR OTHER CULTURAL DEBRIS (PREHISTORIC).
14. Area ABOUT 2 ACRES 15. Depth NOT DETERMINED- PROBABLY SURFACE ONLY 16. Height NONE
17. Vegetation WILLOW; POND RUSHES; POISON OAK 18. Nearest water FRESH POND ON SITE; MANY SPRINGS IN AREA FORMERLY.
19. Soil of site BLACK LOAM, SANDY UNDER PEAT AROUND POND. 20. Surrounding soil SAME
21. Previous excavation NONE
22. Cultivation ON NORTHERLY PARTS 23. Erosion SLIGHT
24. Building, roads, etc. SAND ROAD BISECTS SITE; POND IN CENTER, HOME & BLDGS ON SE.
25. Possibility of destruction IMMINENT FROM DEVELOPMENT - 50 TOWNHOUSES, 2 POOLS, PARKING.
26. House pits NONE NOTED
27. Other features NONE - MORTAR REPORTED REMOVED FROM LOCKEWOOD LANE ON PORTION OF THIS SITE--NOT CONFIRMED.
28. Burials NONE REPORTED.
29. Artifacts VERY SPARSE SURFACE SCATTERING OF LITHIC: 13 CHERT FLAKES, MOSTLY SMALL AND SOME PERHAPS RESHARPENING FLAKES- ONE LARGER MAY BE CRUDE SCRAPER; ONE QUARTZITE FLAKE. NO NATURAL CHERT ON SITE; FLAKES ARE MONTEREY BANDED-BEIGE TO BLACK. TWO POINTS REPORTED REMOVED WHEN POND ON WEST END OF GOLF COURSE WAS DUG, NOT CONFIRMED.
QUARTZITE FLAKE, CHERT 'SCRAPER', AND ONE CHERT FLAKE REMOVED TO CATALOGUE.
30. Remarks THIS POSSIBLE SITE DISCOVERED WHILE DOING EOR RECONNAISSANCE; QUALIFIED ARCHAEOLOGIST RECOMMENDED TO EVALUATE DIRECT & INDIRECT IMPACT--ARTIFACTS REMOVED FROM SITE WILL BE TURNED OVER TO THAT ARCHAEOLOGIST.
31. Published references NONE.
32. Photos NONE 33. Sketch map ATTACHED- JS
34. Date 3/2/74 35. Recorded by JEAN STAFFORD 426-9276
12 SOUTH CIRCLE DRIVE, SANTA CRUZ 95060
SANTA CRUZ ARCHAEOLOGICAL SOCIETY

ALL SOIL CORE SAMPLES FOR DEVELOPMENT SHOWED LIGHT COLORED SAND EXCEPT CORE #1, WHERE AT 4-5' DEPTH THERE WAS SOME BLACK STAINING OF SAND WITH HUMUS.

S-8139 S-10535

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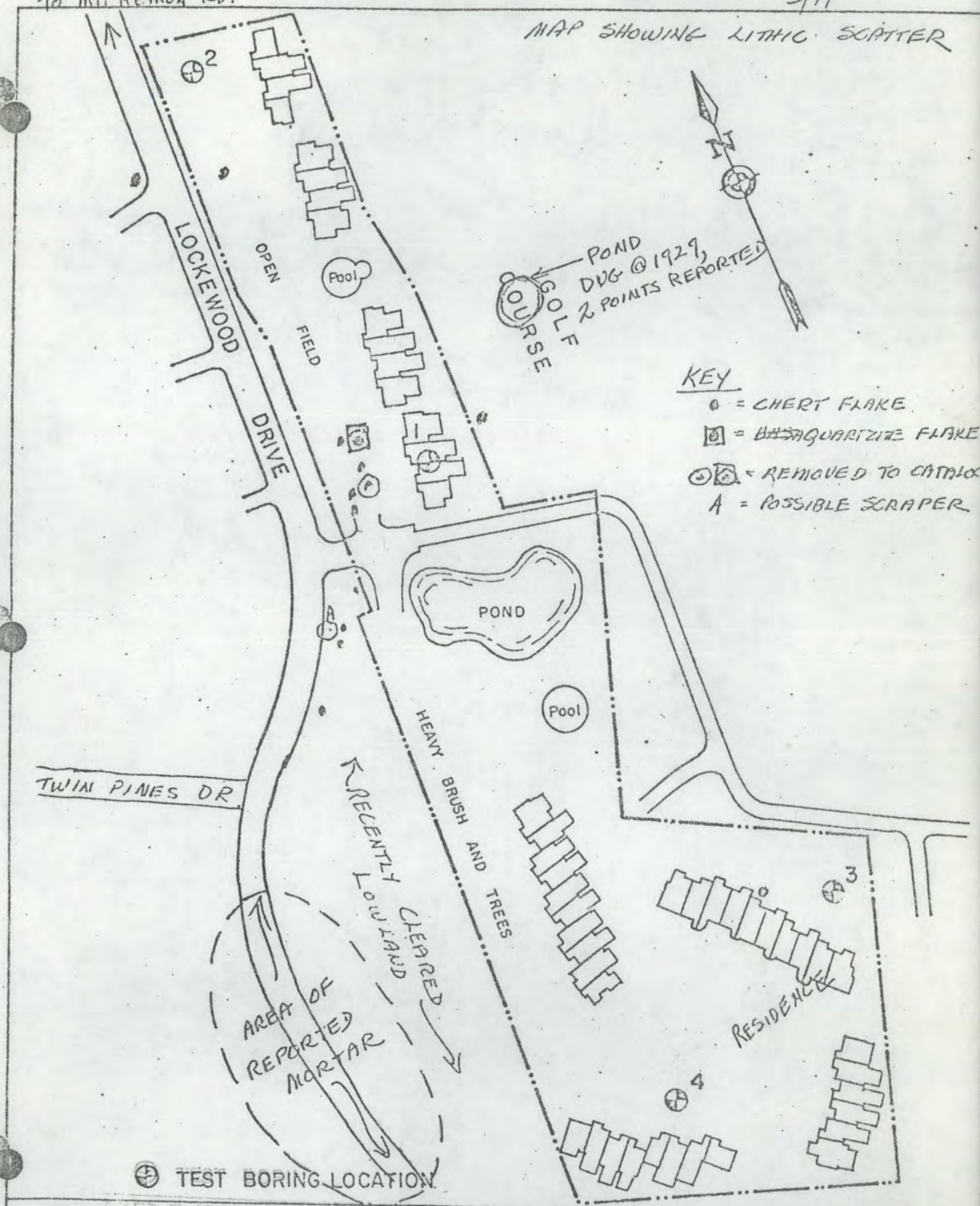
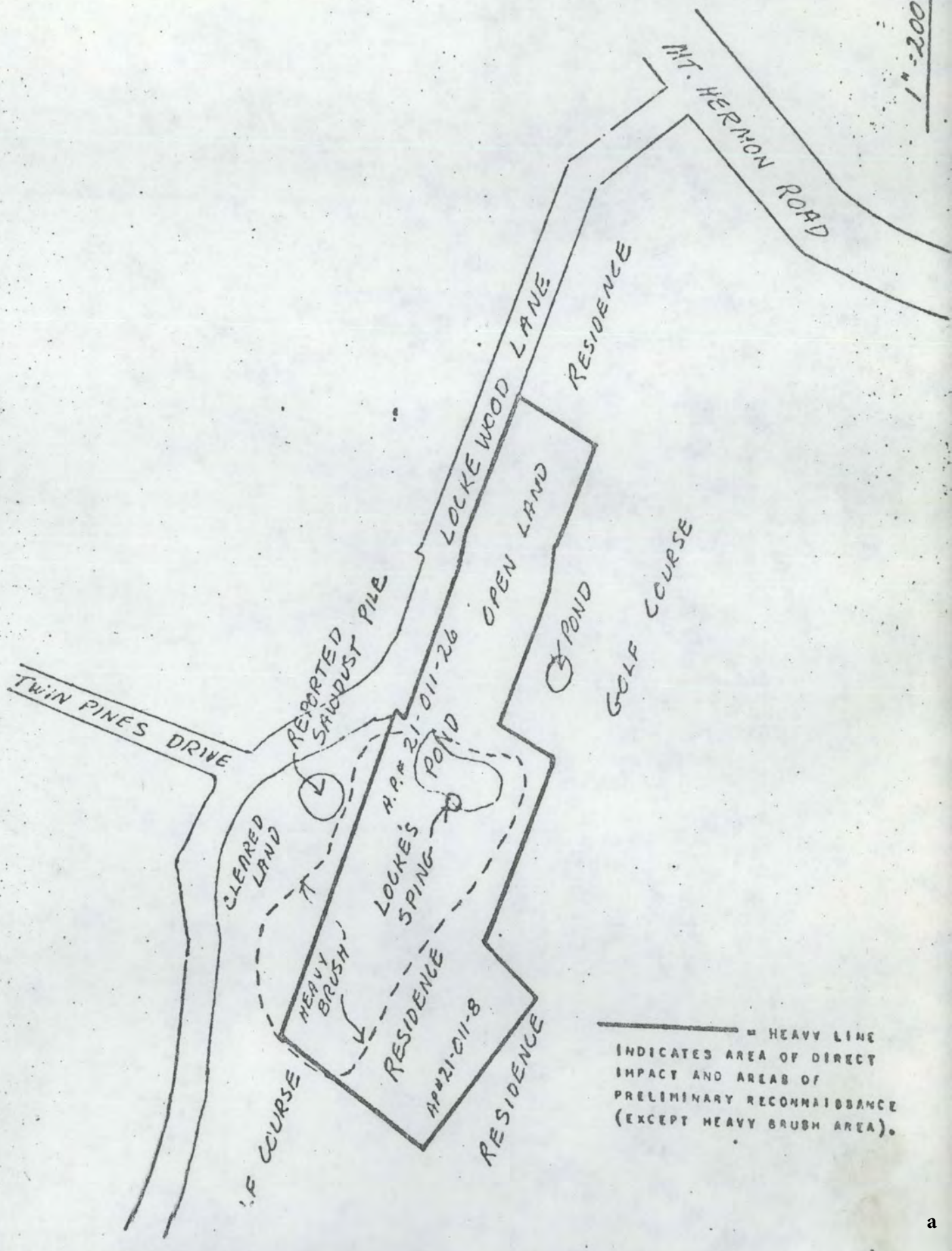



FIGURE NO. 1-Site Plan Showing Test Borings



a

SCOTTS VALLEY SCR-88 1H
3/74
SANTA CRUZ COUNTY




a

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

CA-SCR-88/H

1. County 3/74

# HISTORIC RESOURCES INVENTORY

Site _____ *(State Use Only)*

2. Common Name J. J. GRAHAM PEAT BOG 5-6296

3. Location SOUTH OF MT. HERMON ROAD BETWEEN LOCKEWOOD LANE AND SCOTTS VALLEY DRIVE, SCOTTS VALLEY

4. Date of Inventory 3/7/74

5. Status: Occupied DEVELOPED X Unoccupied _____ Preservation Work in Progress _____ EXCEPT FOR AREA ON WEST END.
A: PRIVATE MOBILE HOME ROADS, PUBLIC GOLF COURSE. B: PRIVATE PROPERTY ON WEST ADJ.

6. Accessible to Public: Yes, Restricted A Yes, Unrestricted _____ Not Accessible to Public B TO LOCKEWOOD LANE.

7. Owner of Property: Name VARIOUS Address _____
City _____ State _____ Zip _____ Phone _____

8. Approximate Acreage 40 ACRES or Approximate Lot Size _____

9. Representation in existing historic or prehistoric survey (see instructions): Yes X No _____ Unknown _____
Name of Survey SEE REFERENCE, ITEM #17: SURVEY OF MINES AND MINERAL RESOURCES OF S.C. CO.

10. Depository for Records: Name REFERENCE IN #17 IS AT UCSC SPECIAL COLLECTIONS LIBRARY
Address UCSC CAMPUS City SANTA CRUZ State CALIFORNIA Unknown _____

11. Representation on current Historic Landmark Registery programs: Yes _____ No X Unknown _____
Which Program _____

12. Description (multiple choice): Altered X Unaltered ___ Condition Excellent ___ Good ___ Fair ___
Deteriorated ___ Ruins ___ Unexposed (archeological site) ___

13. Briefly describe the present and original physical appearance of site or structure and note any major alterations:
THIS WAS ORIGINALLY A SWAMPY AREA OF SPRINGS FORMING HEADWATERS OF A TRIBUTARY OF CARBONERO CREEK AND CONTAINING HILLOCKS OF PEAT WITH AZALEAS AND BULLRUSHES SURROUNDING. PRESENTLY IT IS ALMOST COMPLETELY DEVELOPED WITH VALLEY GARDENS GOLF COURSE AND SPRING LAKES PARK. A SMALL AREA ALONG LOCKEWOOD LANE REMAINS NATURAL WITH POND AND PEAT AROUND IT.

14. Event of Historical Importance: None ___ Local X State ___ National ___ Describe briefly (see instructions for architectural exceptions): SEDGE PEAT WAS COMMERCIALLY EXTRACTED FROM ABOUT 1930 TO 1940. APPROXIMATELY 6,000 TONS WAS DRIED, PULVERIZED, STORED AND THEN SOLD.

15. Person of historical importance: Name J.J. GRAHAM AND SON, BILL GRAHAM- OPERATED THE PEAT INDUSTRY.
Local _____ State _____ National _____ Unknown _____ None _____ BILL GRAHAM WAS THE FIRST MAYOR OF SCOTTS VALLEY.

16. Statement of Significance: THIS IS THE ONLY AREA IN SANTA CRUZ COUNTY WHERE PEAT WAS COMMERCIALLY EXTRACTED AND SOLD. IT REPRESENTS A UNIQUE EXAMPLE OF ONE OF THE MANY INDUSTRIES WHICH AROSE IN THE COUNTY AS A RESULT OF THE GREAT VARIETY OF ECOLOGICAL RESOURCES IN THE SANTA CRUZ AREA.

17. Documents and Books (bibliography): HUBBARD, HENRY G., "MINES AND MINERAL RESOURCES OF SANTA CRUZ COUNTY", IN CALIFORNIA JOURNAL OF MINES AND GEOLOGY, JANUARY, 1943, VOL. 39, #1, PP. 11-52.

18. Photographs of site or structure: Yes X No _____ (see instructions) IN REFERENCE LISTED IN #17: PLATE 11, SHOWS MAP OF COUNTY WITH THIS RESOURCE MARKED AS #17. FIGURE 15, PG. 27. PICTURE OF J. J. GRAHAM AND PEAT BOG.

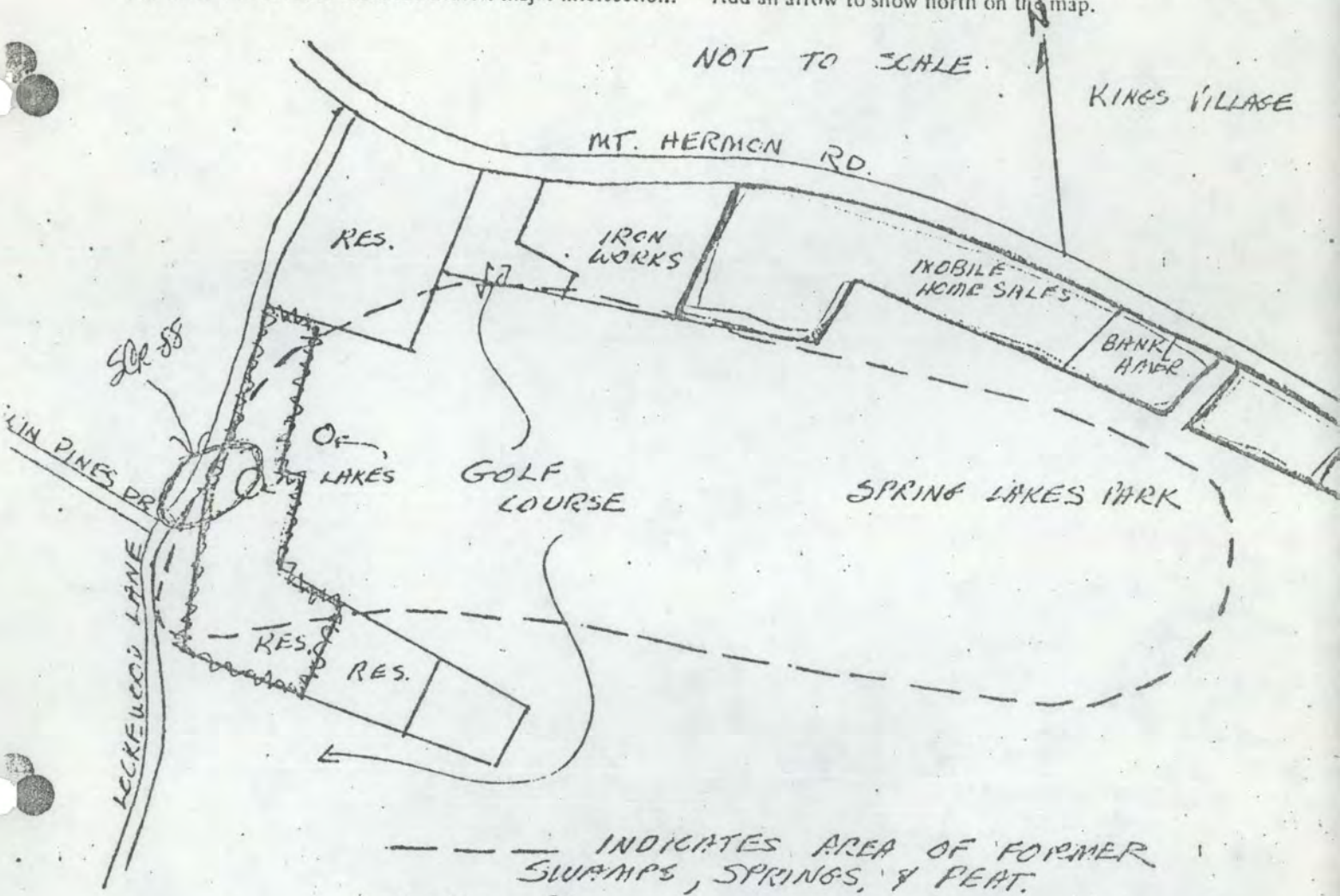
OHR 523(7/73)

5-8139 5-10535

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CA-SCR-88/H 3/74

19. Sketch map:
In the space below, draw a sketch map showing the location of the site or structure being inventoried. Label streets and roads and show the distance from the nearest major intersection. Add an arrow to show north on the map.




20. Form prepared by: Name MRS. DONALD C. STAFFORD Address 12 SOUTH CIRCLE DRIVE
City SANTA CRUZ Phone 426-9276 Organization SANTA CRUZ ARCHAEOLOGICAL SOCIETY

FOR INVENTORY PURPOSES ONLY, WITH NO INTENT TO ASSESS HISTORICAL SIGNIFICANCE.
THE FOLLOWING (21-26) ARE FOR STRUCTURES ONLY.

21. Date of Construction_____ Factual____ Estimated____ Unknown____
Architect_____ Unknown____ Builder_____ Unknown____

22. Basic historic use of structure (see instructions):_____

23. Basic present use of structure (see instructions):_____

24. Is structure on original site? Yes_____ No_____ Unknown_____

25. Present Environment and Threat of Destruction (see instructions)_____
Secure____ Threatened____ Unknown____

26. Area of structure at ground level: Width_____ Length_____ Unknown_____



a

CA-SCR-88 /H

FIELD NOTES

JEAN STAFFORD
3/16/74 SATURDAY.

SITE IS IN SCOTT'S VALLEY ON LOCKEWOOD LANE ABOUT 200 FEET ON THE EAST SIDE OF THE ROAD FROM MT. HERMON ROAD. IT SLOPES GENTLY UPHILL TOWARD THE SOUTH AND IS OPEN FARMLAND WITH CREEK TO THE SOUTH.

SURFACE COLLECTION AND TEST PITS WERE EXCAVATED TODAY UNDER THE DIRECTION OF DR. MARTIN HEIKSON, VISITING ARCHAEOLOGIST AT CABRILLO COLLEGE, AND MEMBERS OF HIS INTRODUCTORY COURSE ON ARCHAEOLOGY. PURPOSE WAS TO ASSESS IMPACT AND SUGGEST MITIGATION FOR AN EIR REPORT SINCE CONDOMINIUMS ARE PLANED FOR THE SITE.

SURFACE COLLECTION:

ON ALL AREAS OF THE PARCEL EXCEPT FOR THE RESIDENCE LOT, ABOUT FIVE STUDENTS SPENT ABOUT 4 HOURS LOOKING FOR KNAPPED LITHIC ON THE SURFACE. EACH FIND WAS PLACED ON THE SITE MAP WITH A NUMBER, AND THEN THE PIECE OF LITHIC WAS PLACED IN A PLASTIC BAG WITH A NUMBER ON A PIECE OF PAPER. MOST MATERIAL WAS FOUND ON THE CENTRAL AREA OF THE PARCEL. THE MOST NORTHERN PARTS WERE PROBABLY NOT AS INTENSIVELY SURVEYED; AREAS WITH PATHS AND ROADS, OR MORE GOPHER ACTIVITY, WERE SEARCHED MORE THOROUGHLY THAN AREAS WHERE THICK LOW GRASS OBSCURRED THE SURFACE. ONLY PARTS OF THE CREEK AND DRAINAGE AREAS WERE SURVEYED SINCE MUCH OF THE AREA WAS IMPASSABLE BECAUSE OF WILLOWS AND OTHER UNDERGROWTH.

DR. HEIKSON AND MYSELF WENT UP AND COLLECTED FROM THE SURFACE AROUND THE RESIDENCE. ONLY ONE OR TWO PIECES OF CHERT WERE FOUND; MUCH OF THE AREA IS COVERED BY THE HOME, PONY BARN AND CORRAL, AND SANDY DRIVE AND FRONT YARD. SPENT ABOUT 1/2 HOUR ON THAT LOT.

TEST PITS:

PIT #1. 2X2 METERS. ALL MATERIAL WAS BAGGED FOR ONE LEVEL; THE EASTERN AND WESTERN 1/2 OF THE PIT BAGGED SEPARATELY. THIS PIT YIELDED MORE MATERIAL THAN ANY OTHER. IT WAS LOCATED WHERE A FRAGMENT OF PROJECTILE POINT HAD BEEN FOUND ON THE SURFACE ALONG WITH SEVERAL OTHER CHERT FLAKES. THE WESTERN HALF WAS EXCAVATED TO SLIGHTLY GREATER DEPTH THAN THE EASTERN HALF--BOTH SIDES EXCAVATED TO ABOUT ONE SHOVEL LENGTH IN DEPTH (30-40 CM). SOIL WAS LOOSE, BLACK FRIABLE SANDY WITH CONSIDERABLE HUMUS. SCREEN USED WAS 1/4" AND ARTIFACTS WERE PICKED OUT OF SCREEN . UPPERMOST LEVELS HAD CONSIDERABLE ABOUNTS OF FINE ROOTS--DISCARDED FROM SCREEN.

PIT #2. 2X2 METERS. ALL MATERIAL WAS BAGGED FOR ONE LEVEL; NOT EXCAVATED QUITE AS DEEP AS UNIT #1. ON NORTH PROFILE, LAYER OF LIGHTER COLORED (MORE YELLOW) SAND WAS VISIBLE ABOUT 8" FROM SURFACE, THOUGH CONTRAST WITH OVERLYING LAYER WAS SLIGHT. TOPSOIL WAS AS FOR UNIT (PIT) 1. TWO SCREENS WERE USED; ONE WAS 1/2" AND MIGHT HAVE ALLOWED SOME MATERIAL TO PASS THROUGH; THE OTHER SCREEN WAS 1/4".

PIT #3. JUST NORTH OF THE DIRT ROAD, AND PROBABLY HAD AN OVERBURDEN OF ROAD MATERIAL. SOIL WAS NOT AS DARK. EXCAVATED LEVEL ONE, ALL BAGGED TOGETHER, TO ABOUT 10-20 "CM.; THEN ONE CORNER WAS EXCAVATED DEEPER (LEVEL 2) TO GET A SOIL PROFILE. 1/4" SCREEN. 2X2 METERS. SOIL MORE COMPACT THAN PITS 1 & 2.

PIT #4. SOUTH OF DIRT ROAD, ADJACENT TO LOCKEWOOD LANE. 1X1 METER. 1/4" SCREEN.

ALL UNITS WERE LAID OUT WITH BRUNTON COMPASS IN N/S DIRECTION. MOST OF LITHIC FROM ALL PITS CAME FROM THE SURFACE OR UPPERMOST PART OF THE PIT, BECAME PROGRESSIVELY SPARCER THE DEEPER THE UNIT. PITS WERE ABANDONNED WHEN NO LITHIC WAS FOUND IN THE LOWER DEPTHS. NO SHELL OR [illegible] WAS FOUND; SOME SMALL FRAGMENTS OF CHARCOAL, AS IF FROM A FIRE [illegible] ALL OF THE SITE APPEARED--BUT DID NOT SEEM TO BE DECOMPOSING

a

3/16/74

REMNANTS FROM HEARTHS.
CREW WORKED FROM 9:30 A.M. TO ABOUT 3:00 P.M. TODAY.

3/18/74 MONDAY

AT 1:00 P.M., DR. HEIKSON, MARY EASTMAN, TRACEY BUCKMAN, AND KEVIN MONAHAN AND MYSELF MET ON THE SITE TO EXCAVATE ADDITIONAL TEST PITS.

LOCATION OF THE FIRST TWO PITS TODAY-- # 5 AND #6, WERE LOCATED TO DETERMINE IF ANY ARCHAEOLOGICAL EVIDENCE COULD BE FOUND CLOSER TO THE LAKE AND FURTHER TO THE SOUTH OF THE MAIN CONCENTRATION; AND PARTLY ON THE BASIS OF WHERE THE WILLOWS ALLOWED AN AREA OPEN AND CLEAR ENOUGH TO WORK. A CHERT FLAKE WAS FOUND 4.4 METERS TO THE NORTHEAST FROM THE NORTHEAST CORNER OF UNIT #5, WHICH INDICATED SOME EVIDENCE MIGHT BE FOUND IN THIS AREA.

PIT #5. EXCAVATED BY MARY EASTMAN, JEAN STAFFORD. 1/4" SCREEN. 1X1 METER, ALIGNED N/S. WILLOW AND OTHER ROOTS CUT THROUGH UNIT IN EVERY DIRECTION; DR. HEIKSON GOT AN AXE AND CUT THEM OUT SO THE PIT COULD BE SHOVELED MORE EASILY. TOP FIVE CMS. WERE BLACK HEAVY, SOGGY SOIL WHICH WOULD NOT PASS THROUGH SCREEN; NUMEROUS SMALL ROOTLETS WERE DISCARDED FROM SCREEN; MUD WAS SOMETIMES SQUEEZED FOR STONE PIECES, THEN THROWN OUT OF SCREEN. AFTER FIRST 5 CM, SOIL BECAME YELLOW/LIGHT BROWN SANDY STREAM DEPOSITS WITH MUCH MORE RIVER-ROLLED ROCKS AND PATCHES OF SOLID CLAY. GOOSEBERRY AND POISON OAK AS WELL AS WILLOW SURROUNDED THE UNIT. ABOUT THE TOP 10 CMS. WERE SCREENED; THEN THE PIT WAS SHOVELED OVER FOR ANOTHER 10 CMS TO ASCERTAIN NO OTHER CHANGE IN SOIL, THEN IT WAS ABANDONED. NOT ONE ARTIFACT OR PIECE OF CHERT WAS FOUND.

PIT #6. MOST SOUTHERLY PIT EXCAVATED, AGAIN IN THE DRAINAGE AREA OF CREEK, NOT FAR FROM A SMALL RUNNING SANDY STREAM. ENTIRELY DIFFERENT FROM PIT #5, AND THIS CONSISTED ALMOST ENTIRELY OF PEAT. SCREENED THROUGH 1/4" MESH; WENT THROUGH SCREEN EASILY. VERY FEW ROCKS OF ANY KIND IN THIS MATERIAL. EXCAVATED DEEPER THAN UNIT 5, BY TRACEY BUCKMAN AND KEVIN MONAHAN. NO ARTIFACTS WERE FOUND. 1 X 1 METER UNIT.

PIT #7. 1X1 METER, LOCATED BETWEEN PIT #1 AND #2, ON A SLIGHT RISE. JEAN STAFFORD AND MARY EASTMAN ON TOP PART; DR. HEIKSON AND TRACEY BUCKMAN ON LOWER PART. MATERIAL ALL BAGGED IN ONE LEVEL. DEEPEST UNIT EXCAVATED. FIRST 20 CMS. HAD A FEW PIECES OF LITHIC, THEN IT SEEMED TO BE SPARCED. BUT AT ABOUT 50CMS. A FEW MORE FLAKES WERE AGAIN FOUND. AT THIS DEPTH, ALSO, CONSIDERABLE DISTURBANCE WAS EVIDENT. A BARBED WIRE PIECE; POST; METAL BARS WITH BOLTS; AND U-SHAPED NAIL WERE FOUND, NOT SAVED. 1/4" SCREEN. SOIL THROUGHOUT WAS FRIABLE (SCREENED EASILY) BLACK SANDY WITH CONSIDERABLE HUMUS. UPPERMOST PARTS CONTAINED CONSIDERABLE FINE ROOTLETS.

PIT #8. LOCATED BETWEEN #7 AND #2, BUT CLOSER TO LOCKEWOOD LANE. 1 X 1 METER, 1/4" SCREEN, TRACEY BUCKMAN AND KEVIN MONAHAN. ~~ALL MATERIAL BAGGED SEPARATELY~~ EXCAVATED TO ABOUT 30 CMS. ONLY TWO CHERT WASTE FLAKES FOUND. LEVEL ONE, FROM 0 TO ABOUT 10 CMS, WAS BLACK, FRIABLE LOAM AND NO ARTIFACTS WERE FOUND. LEVEL 2 WAS FROM (ALSO MOIST AND SANDY) ABOUT 10 TO 30 CMS, WITH SANDY MOTTLED SOIL OF LIGHTER COLOR AND MORE STONE THAN LEVEL 1. MATERIAL FROM THE TWO LEVELS WAS BAGGED SEPARATELY. LEVEL 2 CONTAINED TWO WASTE CHERT FLAKES. NO OTHER ARTIFACTS FOUND.

CREW LEFT ABOUT 5:00 P.M. MR. ALLAN BROWN CAME TO SEE THE SITE AS WE WERE WORKING.

JMS

a

*Recorded by: **Marc Greenberg and Hannah Ballard** *Date: 11/30/2022 ☑ **Continuation** ☑ **Update**

This site record update documents the results of exploratory trenching at the former Valley Gardens Golf Course. A total of 11 trenches were excavated for the Extended Phase I (XPI) trenching project. Of these, five (Trenches 1-6) were excavated north and adjacent to the mapped boundary of P-44-000493/CA-SCR-000343. Trenches 2-6 were negative for cultural materials. Only Trench 1 was positive for cultural materials. Trench 1 which is located north east of the mapped boundary of P-44-000092/CA-SCR-00088/H. UTM Zone 10 (NAD83) coordinates for Trench 1 are 585820 meters east, 4100381 meters north.

The results of the initial testing (Trenches 1-6), as well as conflicting locational information in the P-44-000493/CA-SCR-000343 site record (Cartier 2002) indicated the need for additional XPI testing. Section P2.e. of the site record describes the site as extending west to east on either side of the driveway leading to the residence at 447 Lockewood Lane. In the same sentence, the resource is described as "south of the Valley Gardens Golf Course." Additionally, the "A7. Site Condition" section notes that the golf course is "nearby". The sketch map shows the site on either side of a "dirt driveway" which starts at Arrowhead Lane then heads south and then southeast paralleling the southern boundary of the Valley Gardens Golf Course and north but parallel to Estrella Drive. As mapped the driveway is in the approximate location of present-day Dunn Lane, the elevation noted on the site record corresponds to the elevation of Dunn Lane. While the site boundary is drawn to overlap the golf course, most of the text indicates that the site is south of the golf course.

Five additional trenches (Trenches 7, 8, 9, 15 and 16) were excavated north, east, and southeast of Trench 1, along the driveway to 447 Lockewood Lane. None of the five trenches encountered buried or surface prehistoric indicating a limited lateral extent of the prehistoric deposit to the vicinity Trench 1 and demonstrating that P-44-000493/CA-SCR-000343 is not present along the dirt driveway to 447 Lockewood Lane. Aside from modern refuse including abundant golf balls, only one isolated historic period artifact, a Jim Beam bourbon bottle was found in the trenches.

The isolated historic period colorless liquor bottle was recovered from Trench 15 and was missing its neck. The bottle was embossed with "BEAM" on one shoulder indicating it contained Jim Beam bourbon. The makers mark on the base was and "F" in a hexagon, which was used by the Fairmount Glass Company from 1933-1971 (Lockhart et al. 2015). This end of the bottle's manufacturing date range corresponds with the beginning of the use of the golf course. A small pond was visible in this area on aerial imagery from 1968 and 1974, but not in 1982 and more recent images (Geo-Logic 2019:6). Given the presence of this pond and correspondence with the later end of the manufacturing date of the bottle, it is likely associated with use of the pond during the early years of the golf course operation. The Valley Gardens Golf Course was evaluated and found not eligible for listing on the CRHR (Reese et al. 2022). Thus, this isolated artifact does not indicate the presence of a significant historical resource and is not associated with P-44-000092/CA-SCR-88/H.

The deposits identified in Trench 1 may be associated with P-44-000092/CA-SCR-88/H, which was mapped approximately 60 m (194 ft.) to the west. The cultural materials identified in Trench 1 may be an extension or remnant pocket of P-44-000092/CA-SCR-88 or may be an isolated deposit of sparse, non-diagnostic cultural materials. The negative results in Trenches 7, 8, 9, 15, 16 indicate that site P-44-000493/CA-SCR-343 is not present along the driveway to 447 Lockewood Lane. Although, the sections of the site record for P-44-000493/CA-SCR-343 indicated it may be along 447 Lockewood Lane, the trenching did not identify the presence of midden or archaeological materials. Thus, site P-44-000493/CA-SCR-343, if the site is still extant, it is more likely at, adjacent or south of the southern boundary of the golf course.

**References:**

Cartier, R.
2002 Site P-44-000493 Site record. On file at the Northwest Information Center at Sonoma State University, Rohnert Park, California.

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2019 *Geotechnical Investigation Residential Development 263 Mount Hermon Road, Scotts Valley, California.* Report prepared by Geo-Logic Associates, DBA Pacific Geotechnical Engineering, for Robson Homes, San Jose, California.

Lockhart, Bill, Beau Schriever, Bill Lindsey, and Carol Serr
2015 Fairmount Glass Works. Historic Glass Bottle Identification & Information Website, E-published July 2015. Article on the history, products and markings for several related companies operating from the late-19th to the mid-20th centuries. Electronic document http://www.sha.org/bottle/pdffiles/FairmountGlass.pdf, accessed January 2023.

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2022 *Cultural Resources Report for the Valley Gardens Golf Course Redevelopment Project, Santa Cruz County, California*. Report prepared by Pacific Legacy, Bay Area Office, Berkeley, California, for Robson Homes.

***Recorded By:** Marc Greenberg and Hannah Ballard ***Date:** 11/30/2022




Trench 8 overview, view to south. The gravel fill is from a buried PVC line traversing the project area.




Trench 8 east wall profile showing highly disturbed sediments.

***Recorded By:** Marc Greenberg and Hannah Ballard ***Date:** 11/30/22




Trench 9 overview to the southwest, showing modern disturbance and range of sediments.




Trench 9 east wall profile showing imported fill overlaying sterile sediments.


T7
T1
T16
44-000092
T15
T8
T2
T9
T3
Dirt Driveway to 447 Lockewood Lane
T6
T4
44-000493
T5
Excavated Negative Trench (T#)
Excavated Positive Trench (T#)
Project Area
Cultural Resources
N
0 50 100 150 200
Meters
0 150 300 450 600
Feet
1:4000

State of California- The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
# PRIMARY RECORD

Primary # P-44-000493
HRI #
Trinomial CA-SCR-343
NRHP Status Code
Other Listings
Review Code _____ Reviewer _____ Date _____

Page 1 of 4 *Resource Name or #: Lockewood Lane Site

P1. Other Identifier:
P2. Location: x Not for Publication ____ Unrestricted *a. County Santa Cruz
and (p2b and P2c or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad: Felton, CA Date: 1991 T ; R ; 1/4 of 1/4 of Sec ; B.M.
c. Address: **(Map #4084)** City: Scotts Valley Zip: 95066
d. UTM: 5 85 820mE/40 99 840mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate)
South of the Valley Gardens Golf Course, along both sides of the driveway for 447 Lockewood Lane, elev. 565 feet MSL

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
Light lithic scatter on midden soil. Noted FCR, one large quartzite core, possible flakes and smaller cores.

*P3b. Resource Attributes: (Lists attributes and codes) AP2 – Lithic scatter

*P4. Resources Present: ___ Building ___ Structure ___ Object ___ District ___ Element of District x Site ___ Other(Isolates, etc..)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)

P5b. Description of Photo: (View, date, accession #)

*P6. Date Constructed/Age and Sources: ☐ Historic
☒ Prehistoric ☐ Both
Visual examination

*P7. Owner and Address:
Valley Gardens Golf Course, private property owners

*P8. Recorded by: (Name, affiliation, and address)
Robert R. Cartier
Archaeological Resource Management
496 North Fifth Street
San Jose, CA 95112

*P9. Date Recorded: 10/29/02

*P10. Survey Type: (Describe)
Discovered during monitoring of nearby project area

*P11. Report Citation: (Cite Survey Report and other sources, or enter "none")
None

*Attachments: ___ NONE x Location Map x Sketch Map ___ Continuation Sheet ___ Building, Structure and Object Record
x Archaeological Record ___ District Record ___ Linear Feature Record ___ Milling Station Record ___ Rock Art Record ___ Artifact Record ___ Photographic Record ___ Other (List):

NOV – 8 (illegible)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary # P-44-000493
Trinomial CA-SCR-343

# ARCHAEOLOGICAL SITE RECORD

 *Resource Name or #: Lockewood Lane Site

*A1. Dimensions: a. Length: ( 800 ) b. Width: ( 600 ) feet

Method of Measurement: ___ paced ___ taped _x_ Visual estimate ___ Other:

Method of Determination (Check any that apply): x Artifact ___ Features x Soil ___ Vegetation ___ Topography
___ Cut bank ___ Animal burrow ___ Excavation ___ Property boundary ___ Other (Explain):

Reliability of Determination: ___ High _x_ Medium ___ Low Explain:

Limitations (Check any that apply): ___ Restricted access _x_ Paved/built over _x_ Site limits incompletely defined
_x_ Disturbances ___ Vegetation ___ Other (Explain):

A2. Depth: ___ None ___ Unknown _x_ Method of Determination: ___

*A3. Human Remains: ___ Present ___ Absent ___ Possible _x_ Unknown (Explain): Not investigated, but unlikely in this area due to acidic soils.

*A4. Features (Number, briefly describe, indicate size, list associated cultural constituents, and show location of each feature on sketch map.):

*A5. Cultural Constituents (Describe and quantify artifacts, ecofacts, cultural residues, etc., not associated with features.):
Several pieces of FCR, one large quartzite core, several possible flakes and smaller cores.

*A6. Were specimens Collected? _x_ No ___ Yes (if yes, attach Artifact Record or catalog and identify where specimens are curated.)

*A7. Site Condition: ___ Good _x_ Fair ___ Poor (Describe disturbances): Nearby golf course, residential development.

*A8. Nearest Water (Type, distance, and direction.): Small lake, appr. 580 feet to the east

*A9. Elevation: 564 feet MSL

A10. Enviromental Setting (Describe culturally relevant variables such as vegetation, fauna, soils, geology, landform, slope, aspect, exposure, etc.):
Site is located next to a former Pleistocene lake with a peat bog. The lake has since been drained and now lies under the golf course.

A11. Historical Information
The peat associated with the early lake was excavated and sold in the 1800s.

*A12. Age: _x_ Prehistoric ___ Protohistoric ___ 1542-1769 ___ 1769-1848 ___ 1848-1880 ___ 1880-1914 ___ 1914-1945
___ Post 1945 ___ Undetermined Describe position in regional prehistoric chronology or factual historic dates if known:
This location was perhaps an early site, coeval with CA-SCR-177, the Scotts Valley Site.

A13. Interpretations (Discuss data potential, function(s), ethnic affiliation, and other interpretations):

A14. Remarks:

A15. References (Documents, informants, maps, and other references):

A16. Photographs (List subjects, direction of view, and accession numbers or attach a Photograph Record.):
Original Media/Negatives Kept at:

*A17. Form Prepared by: Julie Jones
Affiliation and Address:
Archaeological Resource Management
496 North Fifth Street
San Jose, CA 95112

Date: 10/29/02

NOV

State of California- The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

# LOCATION MAP

Primary # P-44-000493
HRI #
Trinomial CA-SCR-343

Page 3 of 4 *Resource Name or #: Lockewood Lane Site

*Map Name: USGS Felton, CA Quad *Scale: 7.5 minute *Date of Map: 1991




DPR 523J (1/95) *Required Information

NOV - 9 2001

State of California- The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

# SKETCH MAP

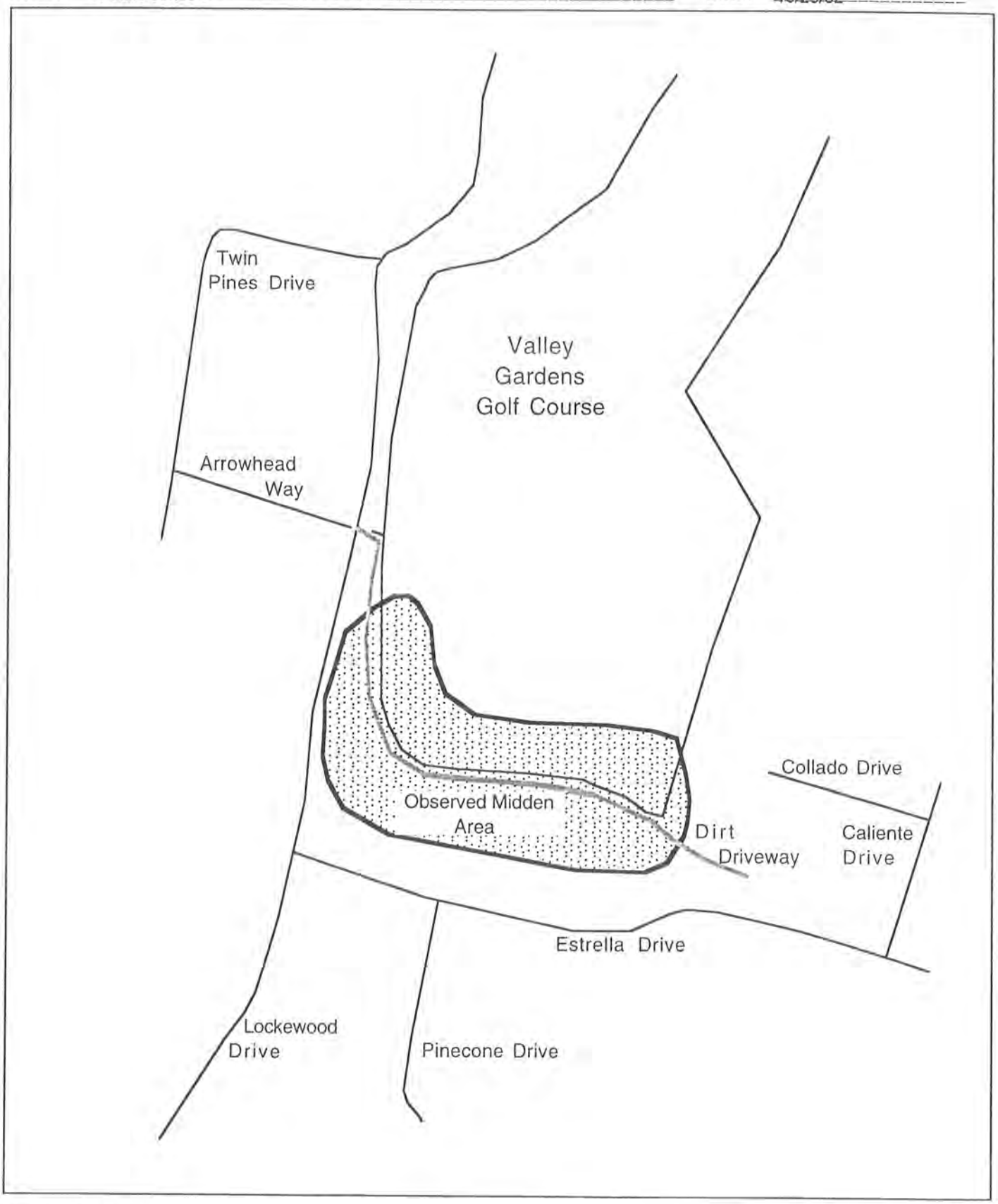
Primary # P-44-000493
HRI #
Trinomial CA-SCR-343

Page 4 of 4

*Resource Name or #: Lockewood Lane Site

*Drawn By: Julie Jones

*Date: 10/29/02




DPR 523J (1/95)

*Required Information

NOV

# PHASE I ENVIRONMENTAL SITE ASSESSMENT, POND SEDIMENT SAMPLING, AND SUBSURFACE INVESTIGATION

## REVISION 2

## FORMER VALLEY GARDENS GOLF COURSE

## 263 MOUNT HERMON ROAD AND 475 LOCKEWOOD LANE

## SCOTTS VALLEY, CALIFORNIA

Prepared for:
**Robson Homes, LLC**
**San Jose, CA**

Prepared By:
**Ramboll US Consulting, Inc.**
**Emeryville, CA**

Date
**May 18, 2022**

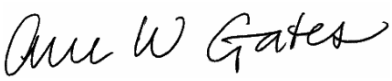
Project Number
**1690021780**

RAMBOLL

## SIGNATURE AND ENVIRONMENTAL PROFESSIONAL STATEMENT

We declare that, to the best of our professional knowledge and beliefs, we meet the definition of Environmental Professionals as defined in §312.10 of 40 CFR 312.

We have the specific qualifications based on education, training, and experience to assess a property of the nature, history and setting of the subject property. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



_____

Anne Gates, P.E.
Senior Managing Consultant



_____

Jason Kane, P.E.
Senior Managing Consultant

Ramboll US Consulting, Inc.
2200 Powell Street, Suite 700
Emeryville, CA

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Figure 1: Site Location Map

Figure 2: Site Layout

Figure 3: Off-site Tetrachloroethene (PCE) Concentrations in Soil Vapor and Groundwater

Figure 4: Pond Sediment Sample Location Map

Figure 5a: Sample Location Map

Figure 5b: Sample Location Map with Proposed Redevelopment

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Appendix A: Site Photographs

Appendix B: Environmental Database Report

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Appendix D: Previous Environmental Reports

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Appendix G: Qualifications of Environmental Professionals

# 1. SUMMARY OF CONCLUSIONS

Ramboll US Consulting, Inc. ("Ramboll"; formerly Ramboll Environ US Corporation) was retained by Robson Homes, LLC ("Robson Homes") to perform a Phase I Environmental Site Assessment (ESA), pond sediment sampling, and subsurface investigation at the former Valley Gardens Golf Course located at 263 Mount Herman Road and 475 Lockewood Lane (herein referred to as the "site"; see Figure 1). Ramboll's assessment was conducted in connection with the due diligence and potential purchase of the property. The objective of the Phase I ESA, which was conducted in conformance with the scope and limitations of ASTM International's *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* E1527-13 (the "ASTM Standard"), was to identify Recognized Environmental Conditions (RECs), as defined in the ASTM Standard (see Section 2.1).

## 1.1 Site Summary

The approximately 30-acre site is located at 263 Mount Herman Road and 475 Lockewood Lane in Scotts Valley, California (Figure 2). The site was formerly the Valley Gardens Golf Course and is owned by Sandy Woodruff. The site is comprised of six adjoining parcels: assessor parcel numbers (APNs) 021-011-34, 021-221-02, 021-231-04, 021-231-07, and 021-231-08 are associated with 263 Mount Herman Road and APN 021-231-02 is associated with 475 Lockewood Lane.

The site was historically naturally vegetated with the northern portion of the site likely used as grazing land for cattle as early as the 1940s. Roads were located across the site as early as the 1940s but development doesn't appear to start on the site until the 1960s when two structures, including the current residence at 475 Lockewood Lane (the "Caretaker's House"), were constructed on the southern portion of the site. Steve Barath purchased the site in 1971 and developed the site into a golf course. Site ownership later transferred to Steve Barath's daughter, Sandy Woodruff, the current owner. The golf course closed in 2018.

## 1.2 Recognized Environmental Conditions

Ramboll performed a Phase I ESA of the site in conformance with the scope and limitations of the ASTM Standard as well as pond sediment sampling and a subsurface investigation at the site. Any exceptions to, or deletions from, this practice are described in Section 7.2 of this report. This assessment did not reveal any REC(s) in connection with unrestricted residential use of the site. No further investigation is recommended at this time.

## 1.3 Other Findings

Although not a considered REC based on currently available information, Ramboll identified the following other findings. The term "other finding" is not defined by ASTM; rather, Ramboll uses the term to connote areas of contingent risk that are not clearly defined by the ASTM Standard.

- **Tetrachloroethene (PCE) in Soil Vapor on the Northern Portion of the Site.** Scotts Valley Dry Cleaners, a dry cleaner located approximately 200 feet north of the site is currently the responsible party for groundwater and soil contamination from PCE in the vicinity of the site. Central Coast Regional Water Quality Control Board (CCRWQCB) is currently providing regulatory oversight of the investigation and cleanup of the property. Soil gas samples collected in 2018 by

Terraphase Engineering[1] from dual-depth soil vapor well SG-2 approximately 150 north-northeast of the site reported PCE concentrations of 53.9 micrograms per cubic meter (µg/$m^3$) and 3,070 µg/$m^3$ in samples collected from 5 and 10 feet below ground surface (bgs), respectively. In June 2021, Terraphase Engineering[2] collected groundwater samples from monitoring wells MW-09 and MW-13A, located approximately 100 feet north and east, respectively, of the northern portion of the site reported concentrations of PCE of 659 micrograms per liter (µg/L) in MW-09 and 8.23 µg/L in MW-13A. The locations and PCE concentrations in soil gas probe SG-2 and monitoring wells MW-09 and MW-13A relative to the site are shown on Figure 5a. Historical groundwater flow direction at Scotts Valley Dry Cleaners has been variable, with the groundwater flow directions to the east and south-southeast in the most recent groundwater monitoring event in June 2021. Assuming an approximate groundwater flow direction to the south-southeast, it is possible that PCE concentrations in groundwater from the Scotts Valley Dry Cleaners property may extend underneath the northern and/or northeastern boundaries of the subject site.

In August and November 2021, Ramboll performed soil vapor sampling on the northern portion of the site to assess potential on-site soil vapor impacts from the PCE in groundwater north of the site. PCE concentrations at on-site soil vapor sampling locations are presented in Figure 5a. PCE was detected in soil vapor locations SG01 and SG05 through SG07 above laboratory reporting limits. The only soil gas sampling location at the site where PCE was detected above the regulatory screening criterion for unrestricted residential land use was SG05 in an area that was historically a parking lot for the former golf course at the site. Based on a review of historical records from local agencies and regulatory databases, and interviews conducted with the site owner, Ramboll has found no indication that PCE was stored or used at the site. PCE concentrations in soil vapor at the site are likely related to the documented release at the Scotts Valley Dry Cleaners located approximately 200 feet north of the site. Furthermore, redevelopment plans for the subject site include a commercial parking lot and adjacent commercial building in the vicinity of SG05. The closest proposed residences are located to the south and southeast, where soil vapor locations SG01 through SG04 and SG09 did not detect any concentrations of PCE above the regulatory screening criterion for unrestricted residential land use. The proposed redevelopment layout is present in Figure 5b with PCE concentrations reported in on-site soil vapor sampling locations and off-site soil vapor and groundwater monitoring wells. Based on the concentrations of PCE detected in soil vapor at the site to date, no further investigation or remediation or mitigation is warranted at this time.

Benzene was detected above the regulatory screening criterion for unrestricted residential land use in all soil vapor samples except SG04. Detections of benzene in soil vapor are not uncommon in developed urban areas especially in roadways and parking lots since benzene is a component of vehicle fuel. Storm water runoff from roads and parking lots often contains low concentrations of benzene and other petroleum-related constituents. When this runoff infiltrates into the subsurface, benzene and other petroleum-related VOCs are detected in soil vapor. Based on the concentrations of benzene detected in soil vapor at the site to date, no further investigation, remediation or mitigation is warranted at this time.

Chloroform was detected at low concentrations just slightly above the regulatory screening criterion for unrestricted residential land use at SG07. Chloroform is a treatment byproduct of municipal water supply systems and as a result, is often found at low concentrations in soil vapor

[1] Terraphase Engineering. 2018. *Soil Gas Assessment Report, Scotts Valley Dry Cleaners.* August 21.

[2] Terraphase Engineering. 2021. *Semi-Annual Monitoring Report, January 1 to June 30, 2021, Scotts Valley Dry Cleaners.* August 30.

in areas where municipal supply water is used. The source of chloroform in soil vapor at the subject site is likely attributable to municipal water use in the general vicinity of the site. The lone chloroform exceedance is only slightly above the regulatory screening criterion for unrestricted residential land use and is not of concern. Based on the concentrations of chloroform detected in soil vapor at the site to date, no further investigation, remediation or mitigation is warranted at this time.

- **Imported Fill During Construction of the Former Golf Course.** During the 1970s, the site utilized imported fill to raise some of the tee boxes, greens, and other golf course features. According to the site owner, Ms. Sandy Woodruff, the soil brought on site was not tested prior to import. Shallow soil samples (0.5 feet bgs) were collected from tee boxes and fairways in 2006 and analyzed for metals and pesticides to assess the impacts of pesticide use at the site. Only one sample location detected the pesticide heptachlor epoxide slightly above current regulatory screening criteria for unrestricted residential land use. Ramboll also collected shallow soil samples from the former putting greens at the site in August 2021. Only one sample location detected the pesticide chlordane slightly above current regulatory screening criteria for unrestricted residential land use. Soil impacts from pesticides at the site appears to be localized and, where present, limited to the upper 2 feet of soil. No further investigation, remediation or mitigation is recommended at this time.

  **Possible Septic Tanks at the Site.** The Caretaker's House was originally connected to a septic system, but the site owner stated that after the house burned down and was rebuilt at an unknown time, the house was connected to the City of Scotts Valley Sewer system. The site owner was unaware if the septic system had been removed. No information or permits pertaining to the septic system at the Caretaker's House was available in records provided by Santa Cruz County Environmental Health Service (SCCEHS).

  Information provided by SCCEHS indicates a 1,500-gallon concrete septic tank serviced 263 Mount Hermon Road. A hand-drawn map included with the septic tank inspection report (see Appendix D) shows a building located south of a parking lot with the septic tank located west of the building. It is unknown what site building is shown in the hand-drawn map or whether the septic tank has been removed from the site. SCCEHS did not provide any information or permits pertaining to the removal of the septic system at 263 Mount Hermon Road. The site owner was unaware of any additional septic tanks at the site other than the aforementioned septic tank near the Caretaker's House.

*De minimis* conditions identified during this review are discussed in Section 7.1.

# 2. INTRODUCTION

## 2.1 Purpose

Ramboll was retained by Robson Homes to conduct a Phase I ESA, pond sediment sampling, and subsurface investigation at the approximately 30-acre site at 263 Mount Hermon Road and 475 Lockewood Lane, Scotts Valley, California (APNs 021-011-34, 021-221-02, 021-231-04, 021-231-07, 021-231-08, 021-231-02, respectively). Ramboll's assessment was conducted in connection with the due diligence and potential purchase of the property. The purpose of the assessment was to identify RECs, which are defined in the ASTM Standard as:

> "The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. *De minimis* conditions are not recognized environmental conditions."

## 2.2 Scope of the Assessment

Ramboll completed the following tasks, consistent with the ASTM Standard, during its Phase I ESA of the property:

- Visits to the site by Jason Kane of Ramboll on November 4, 2016 and Michael Gaffney of Ramboll on April 26, 2021 to observe the exterior and interior features of the site and to identify the uses and conditions specified in the ASTM Standard. In addition, Ramboll observed the adjoining properties from the site or adjacent public thoroughfares (i.e., streets and sidewalks). Photographs taken during the site visits are included in Appendix A.
- An interview was conducted during both site visits with Ms. Sandy Woodruff, the site owner. Ms. Woodruff's father purchased the site in 1971 and developed the site into a golf course shortly after taking ownership. Ownership of the site was later transferred to Ms. Woodruff. The aforementioned individual is referred to herein as "site owner". The site owner interviewed by Ramboll was identified as having good knowledge of the uses and physical characteristics of the site
- A visit to the site by Ramboll on November 16, 2016 to collect pond sediment samples. Visits to the site by Ramboll on August 9 and 10, 2021 to collect soil and soil vapor samples. A visit to the site by Ramboll on November 18, 2021 to conduct step-out soil vapor sampling.
- A review of information contained in federal and state environmental databases, as obtained from the sources noted below:
  - A radius report prepared by EDR, Inc. (EDR, see Appendix B) in April 2021 presents the results of searches of federal and state databases for the subject site, as well as properties near the subject site. The radius searched for each database, as well as the databases themselves, were selected in accordance with the ASTM Standard.
  - The United States Environmental Protection Agency's (USEPA's) Envirofacts database, which provides site information contained in multiple USEPA regulatory databases.
  - The USEPA's Enforcement and Compliance History Online (ECHO) database, which provides information on sites' enforcement and compliance history.

  - The State of California's RWQCB GeoTracker online database and the California Environmental Protection Agency (Cal/EPA) Department of Toxic Substances Control (DTSC) Envirostor online database.
  - The California Department of Conservation, Geologic Energy Management Division's (CalGEM) Well Finder, which contains information regarding the geographic distribution of oil and gas wells.

- A review of standard historical sources (included as Appendix C) and local agency inquiries, as defined in the ASTM Standard. The following resources were reviewed:
  - Readily available historical sources, including (where available) historical topographic maps and aerial photographs, city directories, and Sanborn Maps, to develop a history of the previous uses of the site and surrounding area.
  - Historical and site-specific information obtained from the following local agencies: Santa Cruz County Assessor (Assessor), SCCEHS, Scotts Valley Fire Protection District (SVFPD), Scotts Valley City Clerk, and the Scotts Valley Water District (SVWD). Ramboll requested records from the Santa Cruz County Planning Department and the San Lorenzo Valley Water District (SLVWD) but the agencies did not have records related to the site. A review of physical setting sources, as defined in the ASTM Standard, including:
  - The current United States Geological Survey (USGS) 7.5-minute topographic map that shows the area on which the site is located.
  - Geologic, hydrogeologic, or hydrologic sources as provided in the EDR report.
- Robson Homes provided Ramboll with the following reports and documents pertaining to the site:
  - *Geotechnical Investigation, 263 Mount Hermon Road, Scotts Valley, California,* prepared by Geo-Logic Associates, dated February 11, 2019 (herein referred to as the "2019 Geotechnical report").
  - *ALTA/NSPS Land Title Survey of the Lands of Valley Gardens Golf Course, A Corporation, Scotts Valley, California*, prepared by Ruggeri-Jensen-Azar, dated December 7, 2018.
- Robson Homes provided Ramboll with correspondence from the United States Army Corp of Engineers and Central Coast Regional Water Quality Control Board (CCRWQCB), as well as the below documents, pertaining to the wetland designation of on-site water features:
  - *Jurisdictional status of golf course irrigation storage ponds on the Valley Gardens Golf Course in the City of Scotts Valley, Santa Cruz County, California (PN 2036-01),* prepared by Live Oak Associates, Inc., dated November 6, 2019.
  - *Investigation of Potential Waters of the United States Valley Gardens Golf Course, City of Scotts Valley, Santa Cruz County, California,* prepared by Live Oak Associates, Inc., dated January 17, 2018 (herein referred to as the "2018 Potential Waters of the United States report").
- Ramboll was provided with the following previous environmental assessment reports, which are included as Appendix D:
  - *Phase I and Phase II Environmental Site Assessments, Valley Gardens Golf Course, Scotts Valley, California,* prepared by TRC Lowney, dated March 15, 2006 (herein referred to as the "2006 Phase I/II report").

- *CERCLA Site Inspection, Valley Gardens Golf Course, Scotts Valley, California,* prepared by Ecology and Environment, Inc., dated September 17, 1985 (herein referred to as the "1985 CERCLA Inspection report").

- A search for environmental liens or other activity and use limitations (AULs) for the site, provided by EDR (as shown in Appendix E). Ramboll ordered the lien search using parcel numbers APNs 021-011-34, 021-221-02, 021-231-04, 021-231-07, 021-231-08, and 021-231-02, as obtained from the local tax assessor's office and other online resources.
- A review of any information provided by the user of this assessment, including information consistent with Appendix X3 of the ASTM Standard. Pertinent information, if any, is discussed in the appropriate sections of this report.

This assessment was conducted in accordance with the methodology specified in ASTM Standard E1527-13, as agreed upon by Ramboll and Robson Homes in April 2021.

## 2.3 Significant Assumptions

In conducting this review, no significant assumptions were made, except for the following:

- Site-specific field measurements or other detailed hydrogeological information was not publicly available or reasonably ascertainable. However, information was available for the Scotts Valley Dry Cleaners, a dry cleaner located approximately 200 feet north of the site, Ramboll has assumed that the flow direction of shallow groundwater beneath the site and in the local vicinity is consistent with the findings from investigations at the Scotts Valley Dry Cleaner. Therefore, in evaluating potential on-site impacts from off-site sources, those off-site facilities not located adjacent to or within one-quarter mile upgradient of the subject site are not considered to represent a significant concern to the subject site. This interpretation is based on the assumption that a hazardous material released to the subsurface generally does not migrate laterally within the unsaturated soil for a significant distance, while a hazardous material may migrate in groundwater in a generally downgradient direction.

## 2.4 Reliance and General Limitations

This report has been prepared for the exclusive use of Robson Homes, LLC and affiliated entities including Santa Clara Development Company, Sun Lakes Construction Company of California, and Vesta Real Estate Company Inc., and such other persons or entities whose reliance is explicitly authorized in writing by Ramboll.

Under the ASTM Standard, this report is considered current only until May 17, 2022 (a period of 180 days from the date of the most recent site visit on November 18, 2021). The conclusions presented in this report represent Ramboll's best professional judgment based upon the information available and conditions existing as of the date of this report. In performing its assignment, Ramboll must rely upon publicly available information, information provided by the client, and information provided by third parties. Accordingly, the conclusions in this report are valid only to the extent that the information provided to Ramboll was accurate and complete. This review is not intended as legal advice, nor is it an exhaustive review of site conditions or facility compliance.

The scope of work for this assessment did not include an asbestos survey or inspection of existing buildings. Other issues considered outside the scope of the ASTM Standard and this review include radon, lead in drinking water, wetlands, cultural and historic resources, ecological resources, endangered species, and high voltage power lines.

# 3. SITE DESCRIPTION

## 3.1 Site Setting

Sandy Woodruff owns the site and operated the Valley Gardens Golf Course at the site between 1971 and 2018. The site is located at 263 Mount Hermon Road and 475 Lockewood Lane in Scotts Valley, Santa Cruz County, California. The approximately 30-acre site is located approximately 5 miles north of downtown Santa Cruz (Figure 1). According to the Assessor's Office, the APNs for the site are 021-011-34, 021-221-02, 021-231-04, 021-231-07, and 021-231-08 (263 Mount Hermon Road) and 021-231-02 (475 Lockewood Lane).

The majority of the site is developed with the former Valley Gardens Golf Course including a parking lot and portable trailer that housed the former clubhouse on the northern portion of the site, multiple sheds on the southwestern portion of the site (the "Corporation Yard") which store remnant course maintenance equipment, and a pump shed in the central portion of the site. The Caretaker's House, a single-family house, is located adjacent to the Corporation Yard on the southwestern portion of the site. The former Valley Gardens Golf Course was a nine-hole golf course that has been generally unmaintained since closing in 2018. Other small structures on the site include a small driving range hitting cage in the northeast portion of the site, a pad-mounted Pacific Gas & Electric (PG&E) transformer and shed that houses an electrical panel to the west of the former clubhouse, and multiple small sheds storing miscellaneous furniture and debris adjacent to the west and south of the former clubhouse.

The primary site access is from Mount Hermon Road at the northern site boundary that leads to an asphalt-paved parking lot. The Corporation Yard and Caretaker's House are accessed via a dirt driveway off Lockewood Lane at the southwest corner of the site. A dirt road trends northwest-southeast in the center of the site from Lockwood Lane to an off-site private residence adjacent to the east of the site (447 Lockewood Lane). Two dry ponds are located on the north portion of the site. From 1967 to 1983, effluent from the Scotts Valley Treatment Plant (SVTP) was discharged to the site and used for irrigation. Once the golf course and on-site ponds were constructed in 1971, the effluent was stored in the former site ponds and used for irrigation of the golf course. From 1983 to 2018, the ponds were filled with water from an on-site groundwater production well and stormwater runoff collected in the parking lot. There are no other on-site surface water bodies.

Table A provides an overview of physical setting and utility information for the site.

**Table A: Physical Setting and Utility Information**

| Conditions | Source | Description |
|---|---|---|
| **Topography** | | |
| Elevation (above mean sea level) | USGS topographic map; Google Earth | Ranges from approximately 513 feet on the northeastern portion of the site to 568 feet on the southwestern portion of the site. |
| Topographic Gradient | USGS topographic map; visual observations | Generally flat on the majority of the site, with areas sloping downward to the northeast. Regional topography slopes gently downward to the south. |

**Table A: Physical Setting and Utility Information**

| Conditions | Source | Description |
|---|---|---|
| **Hydrology** | | |
| Surface Water Runoff | Visual observations | Surface water in the parking lot drains to a sump pump that transfers the stormwater to on-site ponds. According to the site owner, the sump pump is operational. Stormwater also percolates into the ground surface at unpaved areas throughout the site. |
| Nearest Surface Water Body to the Site | USGS topographic map; Google Earth; site owner | A pond is located adjacent to the northwest corner of the site. The pond does not appear to have an inlet or outlet and is associated with an adjacent office building. Multiple ponds are located in the residential community adjacent to the east of the site. Water from the ponds discharge to an unnamed creek, which flows to the east toward Carbonera Creek, which ultimately discharges into Monterey Bay.<br>Two dry ponds are located on the site and formerly supplied with water from the on-site groundwater production well. The on-site production well has not been in operation since 2018 and the ponds are currently dry. |
| Flood Plain | FEMA*; site owner | Site owner reported no known occurrences of flooding at the site. The site is not located within a 500-year flood zone. |
| Wetlands | National Wetlands Inventory (NWI)* database; 2018 Potential Waters of the United States report; correspondence with the CCRWQCB and the U.S. Army Corps of Engineers; Visual observations | A small portion of the site in the vicinity of the dry ponds is identified on the NWI database as a federally designated wetland area classified as a Palustrine, Unconsolidated Bottom, permanently Flooded, Excavated System (PUBHx). Ramboll notes that NWI is subject to the jurisdiction of federal, state, and local regulatory agencies. The 2018 Potential Waters of the United States report and correspondence with the CCRWQCB and U.S. Army Corps of Engineers, determined that the wetland-designated area at and in the vicinity of the dry ponds does not fall under the jurisdiction of the U.S. Army Corps of Engineers or CCRWQCB. As such, the area in the vicinity of the dry ponds is specifically not classified as a national or state wetland area. |
| **Geology and Hydrogeology** | | |
| Presumed Direction of Shallow Groundwater Flow | USGS topographic map; Groundwater monitoring reports for nearby property (approximately 200 feet north from the site) reviewed on the GeoTracker database | Groundwater monitoring reports for the Scotts Valley Dry Cleaner facility approximately 200 feet north of the site (272 Mount Hermon Road) indicate a highly variable groundwater flow direction, traveling to both the south-southeast and east. The local topographic gradient is to the northeast although the regional topographic gradient is generally to the south. |

**Table A: Physical Setting and Utility Information**

| Conditions | Source | Description |
|---|---|---|
| Depth to Groundwater | 2019 Geotechnical report; Groundwater monitoring reports for nearby properties reviewed on the GeoTracker database; site visit | Two on-site piezometer wells (GW-1 and GW-2) located on the central portion of the site reported depth to groundwater levels ranging between 9 and 11 feet bgs in 2019. During the August 2021 sampling event, GW-1 was located and observed to be dry at a total depth of 20 feet bgs and GW-2 could not be located. Groundwater monitoring reports for nearby properties indicate that depth to shallow groundwater is variable, ranging from 19 feet bgs to 46 feet bgs. |
| On-site Wells | Site owner; 2019 Geotechnical report; visual observations | Three irrigation wells are located at the site: one well (inactive; unknown depth) is located in the vicinity of the Corporation Yard in the southwest portion of the site; one well (inactive; reportedly 82 feet deep) is located west of the dry ponds; and one well (installed in 2004 and last used in 2018; 453 feet deep) is located north of the dry ponds. The wells near the dry ponds were observed during the April 2021 site walk and formerly pumped water to an approximately 1,000-gallon aboveground storage tank (AST) for storage as golf course irrigation water.<br>Two piezometer wells are located in the central portion of the site: one well was installed adjacent to the pump house and one well was installed approximately 550 feet south-southwest of the pump house. The piezometer wells were installed in November 2018. During the August 2021 sampling event, GW-1 was located and observed to be dry at a total depth of 20 feet bgs and GW-2 could not be located. Additional detail is provided in Table D. The approximate locations of all five on-site wells are shown on Figure 2. |
| Nearest Groundwater Supply Wells | EDR database report | Three federally-registered wells between one-quarter of a mile and one-half mile north of the site, none of which are public water supply wells. Ninety-six state-registered wells are present within one-half mile of the site. |
| Geologic Conditions | Soil boring logs for off-site monitoring wells located approximately 100 feet north and east of the northern portion of the site. | Boring logs from nearby off-site monitoring wells indicate sand and silty sand to approximately 50 feet bgs and silty clay from 50 to 56 feet bgs (deepest borehole termination). |
| **Site Utility Information** | | |
| Electricity Supplier | Site owner | Pacific Gas and Electric (PG&E) |
| Natural Gas Supplier | Site owner | Pacific Gas and Electric (PG&E) |

**Table A: Physical Setting and Utility Information**

| Conditions | Source | Description |
|---|---|---|
| Use of Fuel Oil for Building Heat | Site owner | No current or former use of fuel oil reported. |
| Water Supplier | Site owner | SVWD supplies the former clubhouse with water.<br>SLVWD supplies the Caretaker's House with water. |
| Sanitary Sewer | Site owner | City of Scotts Valley |
| Septic Systems | Site owner; SCCEHS septic tank inspection report | The Caretaker's House was originally serviced by a septic system. According to the site owner, at an unknown time the original Caretaker's House was damaged by a fire and rebuilt. Upon reconstruction, the Caretaker's House was connected to the City of Scotts Valley sanitary sewer system. The site owner was unaware if the former septic system has been removed or if there were any other septic tanks at the site. No information or permits pertaining to the septic system at the Caretaker's House was available in records provided by SCCEHS.<br>Information provided by SCCEHS indicates a 1,500-gallon concrete septic tank serviced 263 Mount Hermon Road. A hand-drawn map included with the septic tank inspection report (see Appendix D) shows a building located south of a parking lot with the septic tank located west of the building. It is unknown what site building is shown in the hand-drawn map or whether the septic tank has been removed. SCCEHS did not provide any information or permits pertaining to the removal of the septic system at 263 Mount Hermon Road. |

Notes:
FEMA = Federal Emergency Management Agency; NWI = National Wetlands Inventory
* - Source was provided in the EDR database report.

## 3.2 Current Use of the Site

The site is currently owned by Sandy Woodruff. The Caretaker's House is rented to tenants and is only utilized for residential purposes. The former clubhouse is occasionally utilized by Sandy Woodruff and family as office space and as a temporary residence. The remainder of the site is primarily unmaintained portions of the former golf course including the Corporation Yard in the southwest corner of the site, the pump house located adjacent to the dry ponds that houses a 1,000-gallon irrigation water AST and irrigation pumps, the former driving range cage in the northern portion of the site, and storage sheds adjacent to the former clubhouse that house miscellaneous debris and furniture.

Remnant landscaping and course maintenance equipment are stored in the Corporation Yard and along the southwest site boundary. According to the site owner, the only current chemical storage and usage is related to small quantities of generic household cleaners at the Caretaker's House and the former clubhouse. In the Corporation Yard, Ramboll observed the storage of grass seed within a 55-gallon drum, eight approximately 50-pound bags of Super Turf (fertilizer), a 5-gallon bottle of

window cleaner, an approximately 50-pound bag of calcium sulfate, an approximately 80-pound bag of jointing sand, and a small tub of pre-mixed grout.

## 3.3 Current Uses of Adjoining Properties

The property is located in a mixed residential and commercial land use area. Residential areas are located adjacent to the west, south, and east of the site. Based on discussions with site owner, Ramboll's visual observations from the property boundary and public rights-of-way, and a limited review of publicly available information, a general determination of the current use of adjacent properties is described in Table B.

**Table B: Current Use of Adjacent Properties**

| Direction | Property/Land Use | Ramboll's Observations |
|---|---|---|
| North | Commercial shopping centers and office building adjacent to the north. | No apparent exterior manufacturing or chemical storage operations were observed. No concerns were noted. |
| East | Residential. | |
| South | Residential. | |
| West | Residential. | |

Notes:

During the site visit, Ramboll walked or drove by the borders of these properties that are adjacent to the subject site. Ramboll did not enter the neighboring properties to the west, south, or east.

# 4. REVIEW OF PUBLIC RECORDS AND OTHER INFORMATION SOURCES

## 4.1 Environmental Regulatory Database Review

Ramboll contracted with EDR in April 2021 to prepare a summary of listings in federal and state agency databases for the site and facilities within applicable radii of the property, as specified by the ASTM standard.[3] A copy of the EDR report is presented in Appendix B.

### 4.1.1 Database Review for Site

Ramboll reviewed the results of the state and federal environmental database searches performed by EDR (see Appendix B) and also searched the GeoTracker and Envirostor online databases. The site is listed on the following environmental databases:

- **Valley Gardens Golf Course (263 Mount Herman Road).** The site is listed on the Superfund Enterprise Management System (SEMS-ARCHIVE) database in 1985, 1989, and 1991. The site is not listed on the National Priorities List (NPL). No other information is listed in the database. The SEMS-ARCHIVE database tracks sites that are no longer under consideration for the Federal Superfund Program following a USEPA on-site assessment. Ramboll notes that this listing likely corresponds to an inquiry by the USEPA into possible sources of contamination to the Santa Margarita Aquifer, which is addressed in the 1985 CERCLA Inspection report. According to the 1985 CERCLA Inspection report, the Santa Margarita Aquifer is an unconsolidated sandstone aquifer that underlies the greater Scotts Valley area with depth to water measurements generally between 20 to 140 feet bgs. Effluent from the SVTP was discharged to the site from 1967 to 1983 and used for irrigation. Once the golf course and on-site ponds were constructed in 1971, the effluent was stored in the (currently dry) on-site ponds and used for irrigation at the former on-site golf course. The site owner was not aware of any formal discharge agreement between the site and SVTP. The SVTP was identified by the USEPA as a possible contamination source to the Santa Margarita aquifer due to influent wastewater composed of wastewater form various industrial and residential sources. The 1985 CERCLA Inspection report concludes that, due to the uncertainty of determining the chemical nature of effluent discharged to the site and the difficulty in assessing potential contamination contribution to the Santa Margarita Aquifer from the discharged effluent, the site should be given “special consideration” in future sampling and remediation investigations developed as part of the Santa Margarita/Scotts Valley Contamination Study (TDD #R-09-8505-11). No additional information was available. Based on the information available, the SEMS-ARCHIVE listing is not a concern for the site and no additional follow-up inspections or investigations were conducted on behalf of USEPA. Furthermore, pond sediment sampling conducted at the site by Ramboll in 2016 did not identify any concerns with respect to the historical effluent discharge to the former ponds at the site (see Section 6.3).

The site (263 Mount Herman Road and 475 Lockewood Lane) is also listed on the following databases related to regulatory compliance: Certified Unified Program Agency (CUPA) Listings, California Environmental Reporting System (CERS), Facility and Manifest Data (HAZNET) related to shipments of hazardous waste in 2002 (including a 0.198 ton shipment of unspecified solvent mixture and a 0.231 ton shipment of unspecified aqueous solution to oil recycling facilities)[4], Hazardous Waste Tracking

[3] EDR uses the term “radii” to refer to the ASTM terminology “approximate minimum search distance” in the environmental database report.

[4] Ms. Woodruff was unaware of these shipments of hazardous waste.

System (HWTS), Facility Index System (FINDS), Enforcement and Compliance History Online (ECHO), and the Resource Conservation and Recovery Act Non-Generator (RCRA NonGen/NLR) database in July 2020 as a verified non-generator of hazardous waste. Listings on these databases, by themselves, are not necessarily indicative of contamination.

### 4.1.2 Database Review for Adjoining Properties

Ramboll has identified a number of adjoining facilities that represent a potential contamination concern to the subject site, as detailed below.

- **Skypark Airport (400 Mount Hermon Road).** Skypark Airport, a former airport adjacent to the site to the north, is listed on the Envirostor online database. The property is listed as a potential contributor of contamination to the federally-designated Santa Margarita aquifer. The state recommended continued site screening although the USEPA's reassessment of site screening recommends no further action. Based on the information reviewed, this property does not represent a contamination concern for the subject site.

### 4.1.3 Database Review for Other Surrounding Properties

Ramboll has identified a number of surrounding facilities that represent a potential contamination concern to the subject site, as detailed below.

- **Scotts Valley Cleaners (272 "A" Mount Hermon Road).** Scotts Valley Dry Cleaners, a dry cleaner located approximately 200 feet north of the site (see Figure 2), is listed on the Historical Hazardous Waste & Substance Site List (HIST CORTESE), Envirostor database, Cleanup Program Sites – Spills, Leaks, Investigations and Cleanups (CPS-SLIC) database, and the California Environmental Reporting System (CERS) database, all relating to groundwater and soil contamination of PCE resulting from dry cleaning operations. Documents reviewed on the environmental database listings and the GeoTracker and Envirostor online databases indicate that the facility has an open remediation status as of September 2020. CCRWQCB is currently providing regulatory oversight of the investigation and cleanup of the property. From July 2005 to August 2015, a groundwater extraction and treatment system that operated at the property removed 3.66 pounds of PCE from groundwater. In September 2009, approximately 10,500 gallons of sodium permanganate solution was injected into the shallow groundwater aquifer to the west, north, and east of the Scotts Valley Dry Cleaners building. The injection of sodium permanganate resulted in decreased PCE concentrations in monitoring wells. However, further remediation was required for PCE-impacted soil gas. Since August 2013, a soil vapor extraction (SVE) and air sparging system has operated at the site. The SVE and air sparging system was expanded in August 2017. A soil gas sampling investigation was conducted in May 2018 by Terraphase Engineering at and in the vicinity of the Scotts Valley Dry Cleaners property.[5] Dual-depth soil gas well SG-2 was installed approximately 150 north-northeast of the site (see Figure 3). Soil gas samples collected at 5 and 10 feet bgs at SG-2 reported PCE concentrations of 53.9 and 3,070 µg/m$^3$, respectively. In June 2021, groundwater samples were collected from monitoring wells MW-09 and MW-13A, located approximately 100 feet north and east, respectively, of the northern portion of the site (see Figure 3).[6] Concentrations of PCE in MW-09 and MW-13A were 659 and 8.23 µg/L) respectively. The locations and PCE concentrations in soil gas probe SG-2 and monitoring wells MW-09 and MW-13A are shown on Figure 3. Historical

[5] Terraphase Engineering. 2018. *Soil Gas Assessment Report, Scotts Valley Dry Cleaners.* August 21.

[6] Terraphase Engineering. 2021. *Semi-Annual Monitoring Report, January 1 to June 30, 2021, Scotts Valley Dry Cleaners.* August 30.

groundwater flow direction at Scotts Valley Dry Cleaners has been variable, with the groundwater flow directions to the east and south-southeast in the most recent groundwater monitoring event in June 2021. Based on the calculated groundwater flow direction to the south-southeast, PCE contamination in groundwater from the Scotts Valley Dry Cleaners property may extend underneath the northern and/or northeastern portions of the subject site.

- **Kaiser Pit Quarry Evaluation (Mount Hermon Road).** Kaiser Pit Quarry, located approximately 1,500 feet northwest of the site, is listed on the GeoTracker database as a DTSC Cleanup Site that requires no further action. A 1985 CERCLA Site Inspection was performed as part of an investigation to identify possible contamination sources of volatile organic compounds (VOCs) to the Santa Margarita aquifer. A reassessment was done in 1989 which concluded that there had been no observed releases of hazardous substances from the property, and that the property is over a mile away from known groundwater contamination plumes. Based upon these conclusions, the DTSC recommended no further action. Based on the fact that this matter was given case closure by a regulatory agency, this property does not represent a contamination concern for the subject site.
- **Former Frank's Auto Dismantler (700 Mount Hermon Road).** Former Frank's Auto Dismantler, located approximately 650 feet north of the site, is listed on the GeoTracker database as Open - Site Assessment as of October 2009. In September 1993, SVFPD performed a site inspection and observed drums and numerous containers containing used motor oil and possibly paint and/or paint wastes. Signs of leakage were noted from some of the containers. Later in 1993, two abandoned underground storage tanks (USTs) were removed from the property. One soil sample was collected from beneath each UST and analyzed for oil and grease, gasoline, diesel, and benzene, toluene, ethylbenzene, and xylenes (BTEX). There were no detections in either sample of any of the analytes of concern. SVFPD oversaw the removal of the USTs and approved case closure of the USTs. Shallow soil sampling performed by the DTSC in 2003 detected elevated concentrations of arsenic, cadmium, lead, vanadium, and benzene but did not deem the concentrations to be of concern. However, in 2008 SCCEHS recommended additional subsurface investigation, which has not yet been performed by the responsible party. Based on the distance from the property and the fact that this matter was given case closure by a regulatory agency, this property does not represent a contamination concern for the subject site.

Ramboll notes that the Watkins Johnson Superfund Site (440 Kings Village Road), approximately 0.4 miles northeast of the site, is listed on the National Priorities List (NPL). A review of documents on the GeoTracker online database indicates that a groundwater plume containing PCE and trichloroethylene (TCE) extends south of the property but cross-gradient of the site. The Watkins Johnson Superfund site is not considered a concern with regards to the site.

## 4.2 Historical Uses of the Site and Adjacent Sites

### 4.2.1 Past Uses of the Site

Aerial photographs dating back to 1940 indicate the site (263 Mount Herman Road and 475 Lockewood Lane) remained undeveloped grassland until 1948, with the exception of a topographic map from 1902 that shows a small structure in the northeastern portion of the site. Between 1948 and 1968, the site remained largely undeveloped with a number of small dirt roads traveling though the southern portion of the site and a number of small structures, likely used for residential or agricultural purposes. Construction of the former Valley Gardens Golf Course and associated structures began in 1971 and was completed by 1974. According to the 1985 CERCLA Site Inspection report, the site accepted treated wastewater effluent from SVTP between 1967 and 1983 and used it for irrigation. Once the golf course and on-site ponds were constructed in 1971, the effluent was

stored into the former ponds and used for irrigation of the golf course. The site use is unknown prior to the construction of the golf course in 1971. Valley Gardens Golf Course closed in 2018.

### 4.2.2 Interview with Site owner

Interviews were conducted during the site visits on November 4, 2016 and April 26, 2021 with Ms. Sandy Woodruff, the site owner. Ms. Woodruff's father purchased the site in 1971 and constructed the golf course shortly thereafter. Site ownership later transferred to Sandy Woodruff.

According to Ms. Woodruff, the site was vacant prior to the golf course. To construct the mounds on the golf course, the facility reportedly imported fill from a construction project off the east side of Highway 17 near Santa's Village Road. The course maintained approximately the same layout throughout its existence with the putting greens always in the same location. The dry ponds are reportedly lined with bentonite.

Between the 1970s and the mid-1980s, the site was partially irrigated by recycled wastewater from the SVTP. The wastewater was reportedly discharged from a pipeline at the SVTP to the water hazard ponds at the golf course for irrigation of the golf course. Ms. Woodruff did not know the location or orientation of the effluent discharge pipeline. Once the use of recycled wastewater ended in the mid-1980s, the golf course was irrigated exclusively by an on-site irrigation well. During the 2016 site visit, Ramboll was shown three groundwater wells: one well (inactive; unknown depth) located in the vicinity of the Corporation Yard in the southwest portion of the site; one well (inactive; reportedly 82 feet deep) located west of the dry ponds; and one well (installed in 2004 and last used in 2018; 453 feet deep) located north of the dry ponds (see Figure 2). During the 2021 site visit, Ramboll could not locate the well in the vicinity of the Corporation Yard but was able to locate the other two wells. The site owner was not aware of any other wells at the site.

A 350-gallon AST that stored gasoline and three 55-gallon drums that stored diesel were formerly located at the Corporation Yard. The tank and drums were emptied via on-site use by power landscaping equipment and subsequently taken to Boulder Creek Golf Course as empty vessels. Additionally, various fertilizers, liquid pesticides, fungicides, and algaecides, and various maintenance chemicals including 15 gallons of hydraulic oil, were formerly stored at the site, primarily in the Corporation Yard. Historically, fertilizers were applied to the fairways once per year and to the greens up to six times per year, fairways were sprayed with pesticides for weeds up to twice per year, fungicides were sprayed on the greens up to eight times per year, and the reservoirs were treated with algicides twice per year. The materials that were not utilized by the golf course were taken offsite by a hazardous materials waste disposal company in approximately 2019. Finally, a minor grass fire burned only exterior portions of the southern portion of the golf course in 2019. The cause of the fire is unknown.

According to the site owner, the Caretaker's House was originally serviced by a septic system. At an unknown time, the original Caretaker's House was damaged by a fire and rebuilt. Upon reconstruction, the Caretaker's House was connected to the City of Scotts Valley sanitary sewer system. The site owner was unaware if the former septic system has been removed and was not aware of any other septic tanks at the site.

A summary of Ramboll's key observations from the available historical sources is presented in Table C.

**Table C: Summary of Key Observations from Historical Sources for the Subject Site**

| Historical Source | Key Observations Regarding Site History |
|---|---|
| Sanborn Maps | There are no Sanborn Maps associated with the site. |
| Aerial Photographs and Satellite Imagery[1] (1940, 1948, 1956, 1968, 1974, 1982, 1991, 2005, 2009, 2010, 2012) | The 1940 aerial photograph depicts the site as undeveloped grassland. The 1948 and 1956 aerial photographs show the site to consist primarily of undeveloped grassland, with what appears to be a dirt road entering the site from the south and traveling through a number of small clearings in the middle of the site. Several small structures appear to be present within the clearings. The 1968 aerial photograph show the majority of the site to be undeveloped grassland with a few dirt roads traveling through the southern portion of the site, no small structures are present. The 1974 through 2012 aerial photographs show a golf course present on site, with the ponds, Corporation Yard, and Caretaker's House present. No concerns are noted. |
| Topographic Maps (1902, 1955, 1968, 1980, 1995, 1998, 2012) | The 1902 topographic map depicts one small structure on the northern portion of the site. The 1955 through 2012 topographic maps do not depict any structures on the site and identify the site as a golf course. No concerns are noted. |
| City Directory (1975, 1980, 1985, 1992, 1995, 1999, 2003, 2008, 2013) | The occupants of 263 Mount Herman Road are listed as Valley Garden Golf Course and/or Scotts Valley Golf Course (1980 through 2003 and 2013). The occupants of 263 Mount Herman Road are not listed in 2008. |

[1] In addition to aerial photographs provided by EDR, Ramboll viewed historical satellite imagery provided via Google Earth. Printed copies were not obtained, and imagery dates were not independently verified.

### 4.2.3 Past Uses of Adjacent Sites

From at least the early 1940's, properties adjacent to the west of the site remained undeveloped woodland, and by the 1960's the properties were developed for residential use. Properties adjacent to the south of the site also remained undeveloped woodland until the 1960's, when a residential complex was developed. Properties adjacent to the east of the site were used for agricultural land use purposes until the 1960's when a large residential complex was developed. Properties adjacent to the north of the site were primarily used for residential and agricultural land uses until the 1980's, apart from a private airport, Sky Park Airport, built in 1947 and closed in 1983. By 1991, properties adjacent to the north of the site were primarily being used for commercial operations including dry cleaning services, pharmacy, grocery store, and an auto body shop.

## 4.3 Review of Local and State Agency Information

Ramboll visited or otherwise contacted local governmental agencies and regulatory bodies for information relating to the site. An overview of the findings of this review is presented in Table D.

**Table D: Local Agency Information for the Site**

| Agency Contacted / Document Reviewed | Information Obtained |
|---|---|
| Santa Cruz County Assessor | Ramboll downloaded assessor maps from the Santa Cruz County Assessor. The maps depict 263 Mount Herman Road, including the clubhouse and former golf course, to be associated with APNs 021-011-34, 021-221-02, 021-231-04, 021-231-07, 021-231-08. The maps depict 475 Lockewood Lane, including the Caretaker's House and Corporation Yard, to be associated with APN 021-231-02. |
| Santa Cruz County Environmental Health Service (SCCEHS) | Ramboll submitted file review requests to SCCEHS in November 2016 and May 2021. Ramboll reviewed available records on the SCCEHS online database and conducted an in-person file review in 2016. Facility closure was issued by SCCEHS in February 2021 following an inspection that identified no contamination inside or outside the facility.<br>A 1990 Septic Tank Pumping and Inspection Report (1990 Septic Report) indicates a 1,500-gallon concrete septic tank serviced 263 Mount Hermon Road. The 1990 Septic Report lists the parcel as APN 21-011-32, which no longer exists on the current Assessor's Map. However, a previous Assessor's map attached to the 1990 Septic Report shows APN 21-011-32 corresponding to the eastern side of the site. A hand-drawn map included with the 1990 Inspection Report shows a building located south of a parking lot with the septic tank located west of the building. It is unknown what site building is shown in the hand-drawn map or whether the septic tank has been removed. The 1990 Septic Report is included in Appendix D.<br>Well Completion Reports indicate two, two-inch diameter piezometer wells were installed on the central portion of the site in November 2018. One well was installed adjacent to the pump house and one well was installed approximately 550 feet south-southwest of the pump house (see Figure 2). The piezometer wells were installed by Geo-Logic Associates.<br>Other relevant records include a multiple hazardous materials and hazardous waste inspections dating back to 2001. Occasional minor violations related to lack of secondary containment or proper signage with no report of spills or leaks. |
| Santa Cruz County Planning Department | Ramboll contacted the Santa Cruz County Planning Department for file review. The Santa Cruz County Planning Department did not have any records on file for the property addresses. |
| Scotts Valley Fire Protection District (SVFPD) | Ramboll requested any available records from the SVFPD. The SVFPD did not have any hazardous materials documentation records on file for the property addresses. |
| Scotts Valley City Clerk | Ramboll submitted a records request to the Scotts Valley City Clerk. The Scotts Valley City Clerk did not have any records on file for the property addresses. |
| Scotts Valley Building Department | Ramboll conducted an in-person file review in 2016 and requested available files in 2021. Files at the Scotts Valley Building Department include permits for a sign and construction of auxiliary structures at Valley Gardens Golf Course and a gas line installation, grading permit, and an expired well permit at the Caretaker's House. |

| Table D: Local Agency Information for the Site | |
|---|---|
| **Agency Contacted / Document Reviewed** | **Information Obtained** |
| Scotts Valley Water District (SVWD) | Ramboll contacted the SVWD, which serves the former clubhouse on the site. The SVWD did not have any records on file regarding wells at the property. |
| San Lorenzo Valley Water District (SLVWD) | Ramboll contacted the SLVWD, which serves the Caretaker's House on the site. The SLVWD did not have any records on file regarding wells at the property although they did have record of a backflow device at the Caretaker's House. |

## 4.4 Previous Environmental Assessments and Activities

- **1985 CERCLA Inspection report.** A preliminary assessment was conducted at the site on July 8, 1985 by Ecology and Environment, Inc. (E&E), a subcontractor of the USEPA, regarding the sources of toxic contamination entering the federally designated "sole source" Santa Margarita aquifer. According to the 1985 CERCLA Inspection report, the Santa Margarita Aquifer is an unconsolidated sandstone aquifer that underlies the greater Scotts Valley area with depth to water measurements generally between 20 to 140 feet bgs. The preliminary assessment concluded that a site inspection was necessary to evaluate potential environmental hazards associated with effluent discharge to Valley Gardens Golf Course. The effluent originated from the SVTP, whose influent was composed of wastewater from various industrial and residential sources. From 1967 to 1983, treated wastewater was sold by SVTP to the site for irrigation purposes. Once the golf course and on-site ponds were constructed in 1971, the effluent was discharge into on-site ponds and subsequently used for irrigation of the golf course. At the time, treated wastewater from SVTP was not monitored for organic constituents or cyanide and treated wastewater has not been used at Valley Gardens Golf course since 1983. In 1985, several organic chemicals and cyanide were detected in trace amounts within the SVTP effluent. E&E could not discount nor confirm the likelihood of on-site contamination due to the uncertain chemical nature of SVTP effluent discharge to Valley Gardens Golf Course. Therefore, E&E recommended that the site be given "special consideration" in future groundwater sampling plans and remedial investigations developed as part of the Santa Margarita/Scotts Valley Contamination Study. No additional information was available regarding whether these recommendations were ever implemented, or whether any additional follow-up inspections or investigations were conducted on behalf of USEPA.
- **2006 Phase I/II report.** A Phase I and Phase II Environmental Site Assessment was performed by TRC Lowney at the site for Ponderosa Homes in 2006. Site inspectors observed adequate housekeeping practices and observations were generally consistent with Ramboll's observations during the 2016 site visit. The Corporation Yard was identified as having a 350-gallon diesel AST, two 55-gallon drums of diesel, fifteen 5-gallon containers of assorted vehicle maintenance chemicals, and several smaller containers of gasoline and diesel. In addition, gopher poison, algaecide, fungicide, herbicides, bags of fertilizer, auto repair chemicals and paints were also stored in the corporation yard. Shallow soil samples were collected at depths of up to 0.5 feet bgs at four of the nine golf course fairways and tee boxes, and around the perimeters of the Caretaker's House and Corporation Yard structures. The soil samples were analyzed for organochlorine pesticides with select samples also analyzed for lead, arsenic, and mercury. The only detection to exceed current DTSC screening criteria for unrestricted residential land use was

heptachlor epoxide (0.074 parts per million [ppm]) in a sample collected west of the ponds, and a sample near hole #1 detected elevated chlordane (up to 1.3 ppm). In addition, a composite sample collected from 0.5 feet bgs in an area of stained soil in the Corporation Yard had a total petroleum hydrocarbons as oil (TPH as oil) concentration of 17,700 ppm, which exceeds the current USEPA screening criteria unrestricted residential land use. Ramboll observed stained concrete and asphalt at and in the vicinity of the Corporation Yard during the 2016 and 2021 site visits but did not observe any stained soil. These areas were recommended to be remediated by soil removal and disposal, but no records indicate that soil excavation was performed. In addition, the 2006 Phase I ESA reported that an underground water pipeline runs from a water AST on a property adjacent to the west of the site, across the golf course, and serves the mobile home park adjacent to the east of the site. Ramboll confirmed the presence of the underground water pipeline in August 2021 (see Section 6.2).

## 4.5 Environmental Lien Record Search

A review of EDR Environmental Lien Search Report dated May 7, 2021 was conducted to identify environmental liens or AULs imposed by judicial authorities with respect to APNs 021-011-34, 021-221-02, 021-231-04, 021-231-07, 021-231-08, and 021-231-02. No environmental liens or AULs were found. The EDR Environmental Lien Search Report is attached as Appendix E.

## 4.6 User-Provided Information

Ramboll provided Robson Homes with a User Questionnaire (consistent with Appendix X3 of the ASTM Standard) that requested information relating to environmental liens, AULs, specialized knowledge of the property, property value diminution, chain-of-title, or any other commonly known or obvious indications of site contamination, that was not otherwise provided to Ramboll.

# 5. SITE RECONNAISSANCE

## 5.1 Methodology and Limiting Conditions

Ramboll conducted site visits on November 4, 2016 and April 26, 2021, as well as site visits in August 2021 and November 2021 for subsurface sampling. During the site visits, observations of the site were made to evaluate if any RECs, as defined in Chapter 2, are present. Ramboll did not observe the roof of the buildings. During the 2021 site visits, the interior of the Caretaker's House was not observed due to precautions related to the COVID pandemic.

## 5.2 General Site Setting and Observations

Ramboll made observations concerning all issues specified in Sections 9.4.2 through 9.4.4 of the ASTM E1527-13 Standard. The presence or absence of each issue of environmental interest or concern is noted in Table E. Additional information regarding observed and historical items is provided in the sections following the table.

**Table E: Summary of Site Reconnaissance Observations**

| Issue | ASTM Section | Observation |
|---|---|---|
| **Interior and Exterior Issues** | | |
| Current use(s) of the property | 9.4.2.1 | See Section 3.2 |
| Past use(s) of the property | 9.4.2.2 | See Section 4.2 |
| Hazardous substances and petroleum products used, treated, stored, disposed of, or generated on the property in connection with identified present or past uses | 9.4.2.3 | **Present** (see Section 5.2.1) |
| Storage tanks:<br>Underground storage tanks (fill ports, vent pipes, manholes)<br>Aboveground storage tanks | 9.4.2.4 | <br>Absent<br>**Historically Present** (see Section 5.2.2) |
| Odors (strong, pungent or noxious) | 9.4.2.5 | Absent |
| Pools of liquid, standing surface water or sumps | 9.4.2.6 | **Present** (see Section 5.2.3) |
| Drums of hazardous substances or petroleum products (five-gallon, 55-gallon or totes) | 9.4.2.7 | **Historically Present** (see Section 5.2.1) |
| Hazardous substance and petroleum product containers (not necessarily in connection with identified uses) | 9.4.2.8 | Absent |
| Unidentified substance containers suspected of containing hazardous substances or petroleum products | 9.4.2.9 | Absent |

**Table E: Summary of Site Reconnaissance Observations**

| Issue | ASTM Section | Observation |
|---|---|---|
| Polychlorinated biphenyls (PCBs)<br>Electrical equipment on-site (e.g., transformers, capacitors)<br>Electrical equipment known or likely to contain PCBs<br>Hydraulic equipment on-site (e.g., elevators, truck dock lifts)<br>Hydraulic equipment known or likely to contain PCBs | 9.4.2.10 | (see Section 5.2.4)<br>**Present**<br>**Potentially Present**<br>**Present**<br>**Potentially Present** |
| **Interior Issues** | | |
| Heating/cooling systems | 9.4.3.1 | **Present** |
| Stains or corrosion on interior floors, walls or ceilings (except for staining from water) | 9.4.3.2 | **Present** (see Section 5.2.5) |
| Floor drains and interior sumps | 9.4.3.3 | Absent |
| **Exterior Issues** | | |
| Pits, ponds or lagoons on property or adjacent sites | 9.4.4.1 | **Present** (see Section 5.2.6) |
| Stained soil or pavement | 9.4.4.2 | **Present** (see Section 5.2.5) |
| Stressed vegetation (from other than insufficient water) | 9.4.4.3 | Absent |
| On-site solid waste disposal; areas apparently filled or graded by non-natural causes; or mounds or depressions suggesting solid waste disposal | 9.4.4.4 | **Present** (see Section 5.2.7) |
| Wastewater or other liquid (including storm water) or any discharge into a drain, ditch, underground injection system or stream on or adjacent to the property | 9.4.4.5 | **Present** (see Section 5.2.3) |
| Wells (including dry wells, irrigation wells, injection wells, abandoned wells, or other wells) | 9.4.4.6 | **Present** (see Table 1) |
| Septic systems or cesspools | 9.4.4.7 | **Potentially Present** (see Section 5.2.8) |

Notes:

Observations noted in this table and discussed further below are based on information obtained during the site visit and from a review of the sources summarized in Section 4.

See the ASTM Standard for a detailed description of the issues included in each referenced ASTM section.

Per the ASTM Standard, fluorescent light ballasts likely to contain PCBs do not need to be noted.

N/A – Not applicable

### 5.2.1 Hazardous Material Use and Storage

Chemical storage at the site is limited to small quantities of general household cleaners and remnant landscaping materials from 2018 when the Valley Gardens Golf Course was in operation. The Caretaker's House and clubhouse reportedly store small quantities of general household cleaners and common maintenance related products. The Corporation Yard stores limited quantities of remnant materials from the previous active golf course operations, including a 1-gallon container of window cleaner, a 55-gallon drum that stores grass seed, eight approximately 75-pound bags of Super Turf, a 5-gallon bottle of window cleaner, an approximately 75-pound bag of calcium sulfate, an approximately 80-pound bag of jointing sand, and a small tub of pre-mixed grout.

Petroleum products that were formerly stored at the site when the golf course was in operation include one 350-gallon diesel AST, two 55-gallon drums of diesel, one five-gallon container of gasoline, three 5-gallon containers of oil, approximately fifteen 5-gallon containers of assorted vehicle maintenance chemicals, and storage of used oil filters. Course maintenance chemicals formerly stored at the site include up to thirty 75-pound bags of solid fertilizer, calcium sulfate, turf food, and grass seed, tens of gallons of gopher poison, algaecide for the ponds, fungicides, herbicides, and liquid fertilizer. Miscellaneous reported chemical storage includes small quantities of degreasers, spray paints, paints, paint thinners, and up to 20-gallons of "Over-Kote" asphalt crack repair. Chemical usage ended at the same time as golf course closure in 2018. The majority of chemicals were reportedly removed by a hazardous waste disposal company in 2020. The diesel drums and AST were emptied from on-site vehicle fueling, and the empty vessels were delivered to Boulder Creek Golf Course. Facility Personnel did not report any spills related to present or historical chemical storage. Staining was observed at the time of the site visit in the Corporation Yard, as described in Section 5.2.5.

### 5.2.2 Aboveground Storage Tanks

One 1,000-gallon water storage AST is located in the Pump House adjacent to the dry ponds. Facility personnel reported that the irrigation well that supplies the AST has not been in operation since 2018.

One 350-gallon diesel AST was formerly located on-site at the Corporation Yard. The diesel AST was stored in secondary containment on top of the concrete slab. The diesel AST was reportedly empty from on-site vehicle fueling, and the empty AST was delivered to Boulder Creek Golf Course. During the site visit, Ramboll observed minor staining in the vicinity of the former fuel UST. Facility personnel did not report any spills related to the AST.

### 5.2.3 Pools of Liquid, Standing Surface Water, or Sumps

One sump is located in the parking lot. The sump collects storm water runoff that collects in the asphalt-paved parking lot and pipes it to the on-site ponds. Stormwater drains into unpaved areas of the site or into the parking lot, which drains to the sump or the municipal storm drain system in the street. Wastewater is not generated on the site. However, from 1967 to 1983, treated wastewater effluent from the SVTP was used for irrigation at the site. Once the golf course and on-site ponds were constructed in 1971, the effluent was stored in the on-site ponds and used to irrigate the golf course, as discussed in Section 4.4.

### 5.2.4 Polychlorinated Biphenyls (PCBs)

Facility personnel knew of no on-site equipment that is known to contain PCBs. One pad-mounted transformer owned by PG&E is present on the northwest corner of the site. The unit is not labeled as

to its PCB content. Ramboll saw no indication of leaks or releases from electrical equipment observed during the site visit. The installation date of the unit is unknown.

### 5.2.5 Interior and Exterior Staining

Ramboll observed staining in interior and exterior portions of the Corporation Yard in the vicinity of former hazardous materials storage. Staining was observed on concrete floors withing the Corporation Yard sheds related to vehicle and landscaping equipment storage and maintenance. Additionally, staining was observed on shelving, which formerly stored paints and miscellaneous vehicle maintenance chemicals. Ramboll observed minor exterior staining at the Corporation Yard. The staining was limited to concrete under the lean-to structure. The staining was likely related to both the former diesel storage and landscaping equipment parking. Concrete pads were in relatively good condition with minor cracks across the concrete pads. Facility personnel did not report any spills of materials at the site.

### 5.2.6 Pits, Ponds, and Lagoons

Two ponds are located on the northern portion of the site. The ponds were most recently filled with water from the irrigation production well and stormwater runoff. The ponds have reportedly been dry since 2018. Additionally, an off-site pond is located adjacent to the northeast corner of the site near an office building. Ramboll could not determine inlets and outlets for the adjacent pond as it appears to be for landscaping purposes.

### 5.2.7 Solid Waste Disposal Areas or Areas Filled by Non-Natural Causes

During the 1970s, the site utilized imported fill to raise some of the tee boxes, greens, and other golf course features. The soil brought on site was reportedly not tested prior to import. As described in Section 4.4, shallow soil samples (0.5 feet bgs) were collected from tee boxes and fairways in 2006 and analyzed for metals and pesticides to assess the impacts of pesticides use at the site. Only one sample location detected heptachlor epoxide slightly above current DTSC screening criteria for unrestricted residential land use. Shallow soil sampling performed by Ramboll across the site in August 2021 is discussed in Section 6.4.

### 5.2.8 Septic Systems

The Caretaker's House was originally on a septic system, but the site owner stated that after the house burned down and was rebuilt at an unknown time, the house was connected to the City of Scotts Valley Sewer system. The site owner was unaware if the septic system had been removed. No information or permits pertaining to the septic system at the Caretaker's House was available in records provided by SCCEHS.

Information provided by SCCEHS indicates a 1,500-gallon concrete septic tank serviced 263 Mount Hermon Road. A hand-drawn map included with the septic tank inspection report (see Appendix D) shows a building located south of a parking lot with the septic tank located west of the building. It is unknown what site building is shown in the hand-drawn map or whether the septic tank has been removed from the site. SCCEHS did not provide any information or permits pertaining to the removal of the septic system at 263 Mount Hermon Road. The site owner was unaware of any additional septic tanks at the site other than the aforementioned septic tank near the Caretaker's House.

# 6. POND SEDIMENT SAMPLING AND SUBSURFACE INVESTIGATIONS

In November 2016, Ramboll conducted pond sediment sampling activities at the site. Figure 4 shows the sample locations. Table 1 summarizes the results of pond sediment sample analyses. The laboratory analytical report is provided in Appendix F.

In August 2021, Ramboll conducted a shallow soil and soil vapor investigation at the site which included sampling of an existing groundwater well at the site. In November 2021, a step-out soil vapor sampling investigation was conducted. Figure 5a shows the shallow soil and soil vapor sample locations and groundwater well locations. Tables 2 through 6 summarize the results of the shallow soil sampling, soil vapor sampling, and groundwater well sampling. The laboratory analytical reports are provided in Appendix F.

The soil sampling analytical results were compared to applicable Cal/EPA DTSC-modified RSLs for unrestricted residential land use or USEPA Regional Screening Levels (RSLs) for unrestricted residential land use.[7,8] In the case of arsenic, concentrations were compared to naturally-occurring background levels.[9] The groundwater and soil vapor sampling analytical results were compared to San Francisco RWQCB (SFRWQCB) Environmental Screening Levels (ESLs) for residential land use.[10] For simplicity, RSLs, DTSC-modified RSLs, and ESLs for unrestricted residential land use will herein be referred to as “regulatory screening criteria”.

## 6.1 Pre-Field Activities

Ramboll prepared a site-specific health and safety plan (HASP) and notified Underground Service Alert (USA) of the sampling activities at least two working days prior to the start of intrusive sampling, as required by law. Ramboll contracted with Subdynamic Locating Services (Subdynamic) to perform utility locating, Penecore Drilling to perform hand augering and drilling activities for soil sample collection and vapor probe installation, Confluence Environmental to perform groundwater well sampling, McCampbell Analytical, Inc. (MAI) to perform soil and groundwater sample analyses, and Eurofins Calscience to perform soil vapor sample analyses.

## 6.2 Confirmation of Underground Water Pipeline

In August 2021, the presence of the underground water pipeline that runs through the central portion of the site was confirmed by Subdynamic using ground penetrating radar. The approximate location of the pipeline is indicated on Figure 2.

## 6.3 Pond Sediment Sampling

Pond sediment sampling activities were performed on November 16, 2016. A total of 18 individual sediment samples were collected from the two on-site ponds (see Figure 4). The eighteen samples were composited by MAI at the laboratory into five three- or four-point composite samples (PS01 through PS05; see Table 1). Pond sediment samples were advanced to approximately 1.0 feet below

[7] USEPA. 2021. Regional Screening Levels (RSLs) for Chemical Contaminants at Superfund Sites. May.

[8] Cal/EPA. 2020. Human Health Risk Assessment (HHRA) Note Number 3, Issue: DTSC recommended methodology for use of U.S. EPA Regional Screening Levels (RSLs) in the Human Health Risk Assessment process at hazardous waste sites and permitted facilities. June.

[9] Duvergé, Dylan Jacques. 2011. Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region.

[10] SFRWQCB. 2019. ESLs. July. Rev 2

bottom of the pond using a 3.25-inch diameter stainless steel hand auger and sediment samples were collected between approximately 0.5 and 1.0 feet below the bottom of the pond. During shallow pond sediment sampling, the retained sediment was observed for visual or olfactory indications of releases. The hand auger was decontaminated by Ramboll after each individual sample.

The samples were placed in laboratory-supplied glass sample jars, placed on ice in a cooler, and delivered to MAI for analysis under chain-of-custody documentation. The five pond sediment composite samples were analyzed for California Assessment Manual (CAM) 17 metals by USEPA Method 6020, organochlorine pesticides (OCPs) by USEPA Method 8081A, and polychlorinated biphenyls (PCBs) by USEPA Method 8082.

### 6.3.1 Pond Sediment Sampling Results

Laboratory analytical results are summarized in Table 1. All detected metals concentrations were well below regulatory screening criteria for unrestricted residential land use. No OCPs or PCBs were detected above laboratory reporting limits in the five composite samples.

## 6.4 Shallow Soil Sampling

Shallow soil sampling activities were performed on August 9, 2021. A total of 11 locations were sampled across the site (SB01 through SB11; see Figure 5a). SB01 was located in the former Corporation Yard within a concrete pad that historically had above ground gasoline and diesel storage tanks in the area and evidence of staining on the concrete pad. Samples were collected from 1.0 and 3.0 feet bgs at SB01. The remaining boreholes (SB02 through SB11) were located within the former putting greens and the practice putting green throughout the former golf course. At boreholes SB02 through SB11, samples were collected from 0.5 and 2.0 feet bgs. All borings were advanced by Penecore to approximately 2 to 3 feet bgs using a 3.25-inch diameter stainless steel hand auger. During sampling, soil was observed for visual or olfactory indications of releases and screened for VOCs in the field using a photoionization detector (PID). The hand auger was decontaminated by Penecore after each individual borehole.

All samples were placed in laboratory-supplied glass sample jars, placed on ice in a cooler, and delivered to MAI for analysis under chain-of-custody documentation. The shallow sample from the Corporation Yard location (SB01) was analyzed for VOCs by USEPA Method 8260 and TPH as gasoline, diesel, and motor oil ranges by USEPA method 8015. The shallow samples from the putting green locations (SB02 through SB11) were analyzed for CAM 17 metals by USEPA Method 6020, OCPs by USEPA Method 8081A, and PCBs by USEPA Method 8082. The deeper soil samples were placed on hold at MAI pending results of the shallow samples. As discussed below, the only deeper soil sample to be analyzed was from SB04. All other deeper soil samples were disposed of by MAI.

### 6.4.1 Shallow Soil Sampling Analytical Results

Laboratory analytical results of shallow soil sampling are summarized in Tables 2 through 4. All metals concentrations were less than regulatory screening criteria for unrestricted residential land use or, in the case of arsenic, below typical naturally-occurring background levels.

TPH were detected in the motor oil range in the 1 foot bgs soil sample at SB01. This detected concentration was well below the regulatory screening criteria for unrestricted residential land use. No other TPH and no VOCs were detected above laboratory reporting limits.

No PCBs were detected above laboratory reporting limits in any of the samples. All OCP concentrations were less than regulatory screening criteria for unrestricted residential land use with the exception of chlordane at SB04 in the shallow sample (0.5 feet bgs). The chlordane concentration in the sample was detected at 2.2 milligrams per kilogram (mg/kg), which exceeds the residential screening criteria of 1.7 mg/kg. The 2 feet bgs samples at SB04 was analyzed for chlordane and reported a concentration of 0.13 mg/kg. Soil impacts from pesticides at the site appears to be localized and, where present, limited to the upper 2 feet of soil. No further investigation is warranted at this time.

## 6.5 Assessment and Sampling of Existing Onsite Groundwater Wells

Ramboll contracted with Confluence on August 10, 2021 to investigate the conditions of three existing onsite irrigation wells (IW-1, IW-2, and IW-3; see Figure 5a) and two existing onsite piezometer wells (GW-1 and GW-2; see Figure 5a). Confluence attempted to measure the total depth and depth to water for each well (see Table 7). Measurement of total depth could not be recorded at IW-2 due to a steel plate which obstructed the well. Measurement of total depth could not be recorded at IW-3 because the well head could not be opened. Well GW-1 was dry at a total depth of approximately 20 feet deep and well GW-2 could not be located.

A grab groundwater sample was collected from IW-1 using a bailer. The sample was collected in laboratory-supplied glass sample containers, placed on ice in a cooler, and delivered to MAI for analysis under chain-of-custody documentation. The sample was analyzed for VOCs by USEPA Method 8260 and for TPH by USEPA method 8015.

### 6.5.1 Groundwater Sampling Analytical Results

Laboratory analytical results for the groundwater sample collected from IW-1 are summarized in Table 5. TPH was not detected and the only VOC detected was acetone at a concentration many orders of magnitude below the vapor intrusion regulatory screening criterion for unrestricted residential land use.

## 6.6 Soil Vapor Sampling

On August 9, 2021, six temporary soil vapor probes (SG01 through SG06) were installed along the northern property boundary (see Figure 5a). All soil vapor probes were installed and sampled in accordance with the 2015 Cal/EPA *Advisory – Active Soil Gas Investigations* (herein referred to as the "Advisory"). Boreholes were advanced to depths of approximately 4 to 5 feet using direct push technology (DPT) drilling equipment. The continuous soil cores withdrawn from the subsurface were collected for logging and screened for VOCs using a PID. At each borehole, approximately 6 inches of sand was placed in the bottom of the borehole, except for SG06, which was backfilled with 6 inches of hydrated bentonite before the sand was placed in the borehole. A stainless-steel sampling probe connected to Teflon tubing was placed on top of the sand layer at depths of 3.0 feet bgs (SG06), 3.5 feet bgs (SG01, SG02 and SG04), and to 4.5 feet bgs (SG03 and SG05). At each borehole the probe depth was determined based on Ramboll's observations of subsurface lithology. An additional 6 inches of sand was placed on top of the sampling probe followed by 1 foot of dry granular bentonite on top of the sand layer. The remainder of the borehole was then backfilled with hydrated bentonite to ground surface. An air-tight valve was placed on the end of each length of Teflon tubing for sample collection. Prior to sampling, the probe was allowed to equilibrate with subsurface conditions for a minimum period of two hours in accordance with the Advisory.

The soil vapor samples were collected on August 9 and 10, 2021 using a 1-liter Summa canister fitted with a flow controller regulating the flow to 200 cubic centimetres per minute (cc/min). All Summa

canisters and flow controllers were certified individually clean by the analytical laboratory for the sample analytes. Prior to purging, a shut-in test was conducted to check for leaks in the above-ground sampling system. A helium leak check shroud was applied to the sampling equipment train during purging and throughout sampling at each location. Prior to sample collection and after purging the vapor well, a downhole helium test was performed to evaluate the competency of the surface seal at each well. Samples were then collected, and the canister valve was closed when approximately -3 to -5 inches of mercury in vacuum remained inside the canister.

Soil vapor samples were analysed for VOCs in accordance with USEPA Method TO-15. Upon completion of sampling, tubing was removed within 24 hours of installation. The boreholes were patched with concrete to match the surrounding ground surface at all the paved locations and covered with surrounding soil at all unpaved locations.

On November 18, 2021, a second step-out soil vapor sampling event was conducted to the north, west, and south of SG05 as four additional temporary soil vapor probes (SG07 through SG10; see Figure 5a) were installed in the northwestern corner of the site. The soil vapor probes were installed using DPT and constructed using the same methodology as described above. Probe tips were installed at depths of 3.5 feet bgs (SG08), 4.5 feet bgs (SG07 and SG09), and 7 feet bgs (SG10). At each borehole the probe depth was determined based on Ramboll's observations of subsurface lithology. A sample was collected from each location on November 18, 2021, following the same sampling method as described above. Upon completion of sampling, tubing was removed within 24 hours of installation. The boreholes were patched with concrete to match the surrounding ground surface at all the paved locations and covered with surrounding soil at all unpaved locations.

### 6.6.1 Soil Vapor Sampling Analytical Results

Laboratory analytical results are summarized in Table 6. Results from August 2021 sampling event reported all VOCs were detected at concentrations below regulatory screening criteria for unrestricted residential land use except for benzene and PCE. Benzene was detected at locations SG01, SG02, SG03, SG05, and SG06 in concentrations ranging from 12 µg/m$^3$ to 43 µg/m$^3$, which exceeds the screening criteria of 3.2 µg/m$^3$ for unrestricted residential land use. PCE was detected at a concentration of 170 µg/m$^3$ at location SG05, which exceeds the screening criteria of 15 µg/m$^3$ for unrestricted residential land use. SG05 is located on the northern portion of the site downgradient of the Scotts Valley Dry Cleaners where extensive investigation and remediation activities have been performed under regulatory oversight due to the release of PCE to the subsurface (see Section 4.1.3). PCE was also detected at concentrations less than the unrestricted residential land use screening criterion at SG01 and SG06.

Results from the November 2021 step-out sampling event to the north, west, and south of SG05 reported all compounds were detected at concentrations below regulatory screening criteria except for benzene and chloroform. Benzene was detected at all four locations at concentrations ranging from 11 µg/m$^3$ to 42 µg/m$^3$, which exceeds the screening criteria for unrestricted residential land use. Chloroform was detected at a concentration of 6.8 µg/m$^3$ at location SG07, which exceeds the screening criteria of 4.1 µg/m$^3$ for unrestricted residential land use. PCE was detected at SG07 and SG08 at concentrations less than the unrestricted residential land use screening criterion. PCE was not detected above laboratory reporting limits at SG09 and SG10.

PCE concentrations reported in on-site soil vapor sampling locations and off-site soil vapor and groundwater monitoring wells are presented in Figure 5a.

# 7. FINDINGS, OPINION, AND CONCLUSIONS

Ramboll performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-13 and pond sediment sampling at the site. The objective of the ESA was to identify RECs, as defined in the ASTM Standard. A list of key definitions presented in the ASTM Standard is provided in Section 9 at the end of this report. Any exceptions to, or deletions from, this practice are described in Section 7.2.

## 7.1 Findings, Opinions, and Conclusions

### 7.1.1 Recognized Environmental Conditions

Ramboll performed a Phase I ESA of the site in conformance with the scope and limitations of the ASTM Standard as well as pond sediment sampling and a subsurface investigation of the site. Any exceptions to, or deletions from, this practice are described in Section 7.2 of this report. This assessment did not reveal any REC(s) in connection with unrestricted residential use of the site. No further investigation is recommended at this time.

### 7.1.2 Other Findings

Although not a considered REC based on currently available information, Ramboll identified the following other findings. The term “other finding” is not defined by ASTM; rather, Ramboll uses the term to connote areas of contingent risk that are not clearly defined by the ASTM Standard.

- **PCE in Soil Vapor on the Northern Portion of the Site.** Scotts Valley Dry Cleaners, a dry cleaner located approximately 200 feet north of the site is currently the responsible party for groundwater and soil contamination from PCE in the vicinity of the site. CCRWQCB is currently providing regulatory oversight of the investigation and cleanup of the property. Soil gas samples collected in 2018 by Terraphase Engineering from dual-depth soil vapor well SG-2 approximately 150 north-northeast of the site reported PCE concentrations of 53.9 µg/m$^3$ and 3,070 µg/m$^3$ in samples collected from 5 and 10 feet bgs, respectively. In June 2021, Terraphase Engineering collected groundwater samples from monitoring wells MW-09 and MW-13A, located approximately 100 feet north and east, respectively, of the northern portion of the site reported concentrations of PCE of 659 µg/L in MW-09 and 8.23 µg/L in MW-13A. The locations and PCE concentrations in soil gas probe SG-2 and monitoring wells MW-09 and MW-13A relative to the site are shown on Figure 5a. Historical groundwater flow direction at Scotts Valley Dry Cleaners has been variable, with the groundwater flow directions to the east and south-southeast in the most recent groundwater monitoring event in June 2021. Assuming an approximate groundwater flow direction to the south-southeast, it is possible that PCE concentrations in groundwater from the Scotts Valley Dry Cleaners property may extend underneath the northern and/or northeastern boundaries of the subject site.

  In August and November 2021, Ramboll performed soil vapor sampling on the northern portion of the site to assess potential on-site soil vapor impacts from the PCE in groundwater north of the site. PCE concentrations at on-site soil vapor sampling locations are presented in Figure 5a. PCE was detected in soil vapor locations SG01 and SG05 through SG07 above laboratory reporting limits. The only soil gas sampling location at the site where PCE was detected above the regulatory screening criterion for unrestricted residential land use was SG05 in an area that was historically a parking lot for the former golf course at the site. Based on a review of historical records from local agencies and regulatory databases, and interviews conducted with the site owner, Ramboll has found no indication that PCE was stored or used at the site. PCE

concentrations in soil vapor at the site are likely related to the documented release at the Scotts Valley Dry Cleaners located approximately 200 feet north of the site. Furthermore, redevelopment plans for the subject site include a commercial parking lot and adjacent commercial building in the vicinity of SG05. The closest proposed residences are located to the south and southeast, where soil vapor locations SG01 through SG04 and SG09 did not detect any concentrations of PCE above the regulatory screening criterion for unrestricted residential land use. The proposed redevelopment layout is present in Figure 5b with PCE concentrations reported in on-site soil vapor sampling locations and off-site soil vapor and groundwater monitoring wells. Based on the concentrations of PCE detected in soil vapor at the site to date, no further investigation or remediation or mitigation is warranted at this time.

Benzene was detected above the regulatory screening criterion for unrestricted residential land use in all soil vapor samples except SG04. Detections of benzene in soil vapor are not uncommon in developed urban areas especially in roadways and parking lots since benzene is a component of vehicle fuel. Storm water runoff from roads and parking lots often contains low concentrations of benzene and other petroleum-related constituents. When this runoff infiltrates into the subsurface, benzene and other petroleum-related VOCs are detected in soil vapor. Based on the concentrations of benzene detected in soil vapor at the site to date, no further investigation, remediation or mitigation is warranted at this time.

Chloroform was detected at low concentrations just slightly above the regulatory screening criterion for unrestricted residential land use at SG07. Chloroform is a treatment byproduct of municipal water supply systems and as a result, is often found at low concentrations in soil vapor in areas where municipal supply water is used. The source of chloroform in soil vapor at the subject site is likely attributable to municipal water use in the general vicinity of the site. The lone chloroform exceedance is only slightly above the regulatory screening criterion for unrestricted residential land use and is not of concern. Based on the concentrations of chloroform detected in soil vapor at the site to date, no further investigation, remediation or mitigation is warranted at this time.

- **Imported Fill During Construction of the Former Golf Course.** During the 1970s, the site utilized imported fill to raise some of the tee boxes, greens, and other golf course features. According to the site owner, Ms. Sandy Woodruff, the soil brought on site was not tested prior to import. Shallow soil samples (0.5 feet bgs) were collected from tee boxes and fairways in 2006 and analyzed for metals and pesticides to assess the impacts of pesticide use at the site. Only one sample location detected the pesticide heptachlor epoxide slightly above current regulatory screening criteria for unrestricted residential land use. Ramboll also collected shallow soil samples from the former putting greens at the site in August 2021. Only one sample location detected the pesticide chlordane slightly above current regulatory screening criteria for unrestricted residential land use. Soil impacts from pesticides at the site appears to be localized and, where present, limited to the upper 2 feet of soil. No further investigation, remediation or mitigation is recommended at this time.

**Possible Septic Tanks at the Site.** The Caretaker's House was originally connected to a septic system, but the site owner stated that after the house burned down and was rebuilt at an unknown time, the house was connected to the City of Scotts Valley Sewer system. The site owner was unaware if the septic system had been removed. No information or permits pertaining to the septic system at the Caretaker's House was available in records provided by SCCEHS.

Information provided by SCCEHS indicates a 1,500-gallon concrete septic tank serviced 263 Mount Hermon Road. A hand-drawn map included with the septic tank inspection report (see Appendix

D) shows a building located south of a parking lot with the septic tank located west of the building. It is unknown what site building is shown in the hand-drawn map or whether the septic tank has been removed from the site. SCCEHS did not provide any information or permits pertaining to the removal of the septic system at 263 Mount Hermon Road. The site owner was unaware of any additional septic tanks at the site other than the aforementioned septic tank near the Caretaker's House.

### 7.1.3 *De Minimis* Conditions

*De minimis* conditions are those that do not represent a material risk of harm to public health or the environment and that generally would not be the subject of enforcement action if brought to the attention of appropriate governmental agencies. Ramboll identified the following *de minimis* condition related to the site:

- **Floor Staining in the Corporation Yard.** Ramboll observed staining in interior and exterior portions of the Corporation Yard in the vicinity of former hazardous materials storage. Staining was observed on concrete floors withing the Corporation Yard sheds related to vehicle and landscaping equipment storage and maintenance. Additionally, staining was observed on shelving, which formerly stored paints and miscellaneous vehicle maintenance chemicals. Ramboll observed minor exterior staining at the Corporation Yard. The staining was limited to concrete under the lean-to structure. The staining was likely related to both the former diesel storage and landscaping equipment parking. Concrete pads were in relatively good condition with minor cracks across the concrete pads. Shallow soil sampling conducted by Ramboll in August 2021 in the area of the concrete staining did not identify any evidence of impacted soil underneath the concrete. No further action or investigation is recommended.

## 7.2 Analysis of Data Gaps

The ASTM Standard defines a data gap as "a lack of or inability to obtain information required by the practice despite good faith efforts by the environmental professional to gather such information." A data gap is only significant if other information obtained during the ESA, or professional experience, raises reasonable concerns and affects the ability of the environmental professional to identify whether a given issue is a REC. The ASTM Standard requires that the ESA report identify and comment on significant data gaps.

Limiting conditions and deviations to the ASTM Standard for the assessment are discussed below.

- The earliest readily available aerial image that indicates specific site uses is dated 1939 and shows that at least a portion of the property was used for grazing of livestock. Due to extended age of the site, it was not possible to interview representatives dating back to the site's first developed use.
- During the 2021 site visits, the interior of the Caretaker's House was not observed due to precautions related to the COVID pandemic. The interior was observed during the November 2016 site visit and the Caretaker's House has only been used for residential purposes since that time.

None of the exceptions, deletions, deviations, or site reconnaissance limitations noted above are considered to represent significant data gaps.

# 8. ASTM DEFINITIONS

The following definitions are presented in the ASTM Standard:

**REC - Recognized Environmental Condition:**

The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: 1) due to release to the environment; 2) under conditions indicative of a release to the environment; or 3) under conditions that pose a material threat of a future release to the environment.

**CREC - Controlled Recognized Environmental Condition:**

A recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

**HREC - Historical Recognized Environmental Condition:**

A past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls.

***De minimis* Condition:**

A condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

**Data Gap / Significant Data Gap:**

A lack of or inability to obtain information required by the practice despite good faith efforts by the environmental professional to gather such information. A data gap is significant if other information and/or professional experience raises concerns involving the data gap.

*Please note that the term "other finding" is not defined by ASTM; rather, Ramboll uses the term to connote areas of contingent risk that are not clearly defined by the ASTM Standard.*

# TABLES

**Table 1: Metals, OCPs, and PCBs in Soil Samples**
**Former Valley Gardens Golf Course, Scotts Valley, California**

| Sample ID | Depth Below Pond Bottom (feet) | Sample Date | Metals | | | | | | | | | Organochlorine Pesticides (OCPs) | Polychlorinated Biphenyls (PCBs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Arsenic | Barium | Chromium | Copper | Lead | Molybdenum | Nickel | Vanadium | Zinc | | |
| *Composite sediment samples collected from the bottom of the Valley Gardens Golf Course ponds.* | | | | | | | | | | | | | |
| PS-01 | 1.0 | 11/16/2016 | ND<0.50 | **11** | **2.1** | **4.1** | **1.4** | ND<0.50 | **0.69** | **1.3** | **5.0** | All ND* | All ND* |
| PS-02 | 1.0 | 11/16/2016 | **1.9** | **15** | **7.2** | **13** | **1.8** | **0.62** | **1.2** | **1.9** | **9.5** | All ND* | All ND* |
| PS-03 | 1.0 | 11/16/2016 | **0.50** | **12** | **2.7** | **21** | **2.0** | **0.95** | **1.5** | **1.8** | **19** | All ND* | All ND* |
| PS-04 | 1.0 | 11/16/2016 | ND<0.50 | **8.7** | **1.4** | **12** | **1.0** | **0.61** | **0.79** | **1.0** | **6.2** | All ND* | All ND* |
| PS-05 | 1.0 | 11/16/2016 | **0.78** | **18** | **3.2** | **13** | **2.2** | **1.0** | **1.9** | **2.2** | **11** | All ND* | All ND* |
| ***Residential Screening Criteria*** | | | 11 | 15,000 | 120,000[a] | 3,100 | 80 | 390 | 490 | 390 | 23,000 | -- | -- |
| ***Screening Criteria Source*** | | | Duvergé | USEPA | USEPA | USEPA | Cal/EPA | USEPA | Cal/EPA | USEPA | USEPA | -- | -- |
| ***Hazardous Waste Screening Criteria*** | | ***TTLC*** | 500 | 10,000 | 2,500 | 2,500 | 1,000 | 3,500 | 2,000 | 2,400 | 5,000 | -- | -- |
| | | ***10x STLC*** | 50 | 1,000 | 50 | 250 | 50 | 3,500 | 200 | 240 | 2,500 | -- | -- |
| | | ***20x TCLP*** | 100 | 2,000 | 100 | -- | 100 | -- | -- | -- | -- | -- | -- |

***Notes:***
Sample PS-01 is a three-point composite from locations PS-01A, PS-01B, and PS-01C.
Sample PS-02 is a three-point composite from locations PS-02A, PS-02B, and PS-02C.
Sample PS-03 is a four-point composite from locations PS-03A, PS-03B, PS-03C, and PS-03D.
Sample PS-04 is a four-point composite from locations PS-04A, PS-04B, PS-04C, and PS-04D.
Sample PS-05 is a four-point composite from locations PS-05A, PS-05B, PS-05C, and PS-05D.

Only compounds detected above the laboratory reporting limit are included in the table.
Detected compounds are shown in bold.
Data are reported in milligrams per kilogram (mg/kg), unless noted otherwise.
California Assessment Manual 17 (CAM17) metals analyzed by USEPA Method 6020
Organochlorine pesticides (OCPs) analyzed by USEPA Method 8081A
Polychlorinated biphenyls (PCBs) analyzed by USEPA Method 8082

-- = not available
bgs = below ground surface
ND = not detected at or above the laboratory reporting limit shown
ND* = Reporting limit varies for each analyte
STLC = Soluble Threshold Limit Concentration; Source: California Code of Regulations, Title 22, Chapter 11, Article 3.
TCLP = Toxicity Characteristic Leaching Procedure; Source: 40 CFR 261, appendix II, 1993 ed., as amended by 58 FR 46040, Aug 31, 1993.
TTLC = Total Threshold Limit Concentration; Source: California Code of Regulations, Title 22, Chapter 11, Article 3.
USEPA = United States Environmental Protection Agency

**Sources:**

California Environmental Protection Agency (Cal/EPA). 2020. Human Health Risk Assessment (HHRA) Note Number 3, Issue: DTSC recommended methodology for use of U.S. EPA Regional Screening Levels (RSLs) in the Human Health Risk Assessment process at hazardous waste sites and permitted facilities. June.
Duvergé, Dylan Jacques. 2011. Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region.
United States Evironmental Protection Agency (USEPA). 2021. Regional Screening Levels for Chemical Contaminants at Superfund Sites. May.

**Table 2: Metals in Soil Samples**
**Former Valley Gardens Golf Course, Scotts Valley, California**

| Sample Location | Sample Depth (feet bgs) | Sample Date | Arsenic | Barium | Chromium | Cobalt | Copper | Lead | Mercury | Molybdenum | Nickel | Selenium | Vanadium | Zinc |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SB02 | 0.5 | 8/9/2021 | **1.4** | **44** | **8.4** | **1.7** | **3.9** | **3.7** | **0.23** | **0.51** | **7.0** | **0.52** | **7.6** | **59** |
| SB03 | 0.5 | 8/9/2021 | **1.3** | **22** | **8.4** | **0.77** | **3.0** | **2.2** | **0.37** | ND<0.50 | **3.9** | **0.52** | **7.4** | **14** |
| SB04 | 0.5 | 8/9/2021 | **1.4** | **29** | **8.6** | **0.89** | **4.1** | **3.1** | **0.95** | ND<0.50 | **4.9** | **0.54** | **7.4** | **18** |
| SB05 | 0.5 | 8/9/2021 | **0.90** | **23** | **6.0** | ND<0.50 | **2.8** | **2.5** | **0.19** | ND<0.50 | **3.0** | **0.61** | **4.9** | **14** |
| SB06 | 0.5 | 8/9/2021 | **1.4** | **19** | **7.9** | **0.65** | **3.2** | **2.0** | **0.24** | ND<0.50 | **3.8** | **0.56** | **6.9** | **16** |
| SB07 | 0.5 | 8/9/2021 | **1.1** | **20** | **8.7** | **0.52** | **4.0** | **2.6** | 0.57 | **0.54** | **2.8** | ND<0.50 | **5.3** | **21** |
| SB08 | 0.5 | 8/9/2021 | **0.75** | **17** | **6.8** | **0.51** | **2.9** | **2.6** | **0.089** | ND<0.50 | **2.4** | ND<0.50 | **5.1** | **14** |
| SB09 | 0.5 | 8/9/2021 | **0.80** | **25** | **5.3** | ND<0.50 | **1.2** | **2.3** | ND<0.050 | ND<0.50 | **1.6** | ND<0.50 | **4.1** | **5.0** |
| SB10 | 0.5 | 8/9/2021 | **0.91** | **37** | **6.4** | ND<0.50 | **3.1** | **4.4** | **0.30** | ND<0.50 | **3.3** | ND<0.50 | **4.4** | **20** |
| SB11 | 0.5 | 8/9/2021 | **1.5** | **41** | **9.1** | **0.74** | **3.1** | **3.9** | **0.068** | ND<0.50 | **3.9** | **0.51** | **7.8** | **14** |
| ***Residential Screening Criteria*** | | | 11 | 15,000 | 120,000[a] | 23 | 3,100 | 80 | 1[b] | 390 | 490 | 390 | 390 | 23,000 |
| ***Screening Criteria Source*** | | | Duvergé | USEPA | USEPA | USEPA | USEPA | Cal/EPA | Cal/EPA | USEPA | Cal/EPA | USEPA | USEPA | USEPA |
| ***Hazardous Waste Screening Criteria*** | | ***TTLC*** | 500 | 10,000 | 2,500 | 8,000 | 2,500 | 1,000 | 20 | 3,500 | 2,000 | 100 | 2,400 | 5,000 |
| | | ***10x STLC*** | 50 | 1,000 | 50 | 800 | 250 | 50 | 2.0 | 3,500 | 200 | 10 | 240 | 2,500 |
| | | ***20x TCLP*** | 100 | 2,000 | 100 | -- | -- | 100 | 4.0 | -- | -- | 20 | -- | -- |

***Notes:***
Only compounds detected above the laboratory reporting limit are included in the table and are shown in **bold**.
All data are reported in milligrams per kilogram (mg/kg).
[a] = screening value is for Chromium III
[b] = screening value is for Elemental Mercury
California Assessment Manual 17 (CAM17) metals analyzed by EPA Method 6020.

-- = not available
bgs = below ground surface
Cal/EPA = California Envrionmental Protection Agency
ND = not detected at or above the laboratory reporting limit shown
STLC = Soluble Threshold Limit Concentration; Source: California Code of Regulations, Title 22, Chapter 11, Article 3.
TCLP = Toxicity Characteristic Leaching Procedure; Source: 40 CFR 261, appendix II, 1993 ed., as amended by 58 FR 46040, Aug 31, 1993.
TTLC = Total Threshold Limit Concentration; Source: California Code of Regulations, Title 22, Chapter 11, Article 3.
USEPA = United States Environmental Protection Agency

***Sources:***
California Environmental Protection Agency (Cal/EPA). 2020. Human Health Risk Assessment (HHRA) Note Number 3, Issue: DTSC recommended methodology for use of U.S. EPA Regional Screening Levels (RSLs) in the Human Health Risk Assessment process at hazardous waste sites and permitted facilities. June.
Duvergé, Dylan Jacques. 2011. Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region.
United States Evironmental Protection Agency (USEPA). 2021. Regional Screening Levels for Chemical Contaminants at Superfund Sites. May.

**Table 3: Organochlorine Pesticides and PCBs in Soil Samples**
**Former Valley Gardens Golf Course, Scotts Valley, California**

| Sample Location | Sample Depth (feet bgs) | Sample Date | Organochlorine Pesticides (OCPs) | | | | | | Polychlorinated biphenyls (PCBs) |
|---|---|---|---|---|---|---|---|---|---|
| | | | Chlordane (Technical) | a-Chlordane | g-Chlordane | p,p-DDT | Endosulfan I | Heptachlor epoxide | |
| SB02 | 0.5 | 8/9/2021 | **0.91 P** | **0.12** | **0.079 P** | ND<0.0050 | **0.032 P** | **0.022** | All ND* |
| SB03 | 0.5 | 8/9/2021 | **0.74** | **0.12** | **0.083 P** | ND<0.0050 | ND<0.0050 | **0.015** | All ND* |
| SB04 | 0.5 | 8/9/2021 | **2.2 P** | **0.36** | **0.25 P** | ND<0.010 | ND<0.010 | **0.045** | All ND* |
| | 2.0 | 8/9/2021 | **0.13** | -- | -- | -- | -- | -- | -- |
| SB05 | 0.5 | 8/9/2021 | **0.92 P** | **0.13** | **0.096 P** | ND<0.0050 | ND<0.0050 | **0.0076** | All ND* |
| SB06 | 0.5 | 8/9/2021 | **0.85** | **0.10 P** | **0.075 P** | ND<0.0050 | ND<0.0050 | **0.0091** | All ND* |
| SB07 | 0.5 | 8/9/2021 | **1.2 P** | **0.18** | **0.15** | ND<0.010 | ND<0.010 | **0.011** | All ND* |
| SB08 | 0.5 | 8/9/2021 | **0.34** | **0.042** | **0.030 P** | **0.0051** | ND<0.0050 | **0.0055** | All ND* |
| SB09 | 0.5 | 8/9/2021 | ND<0.12 | **0.019** | **0.014 P** | ND<0.0050 | ND<0.0050 | ND<0.0050 | All ND* |
| SB10 | 0.5 | 8/9/2021 | **0.90 P** | **0.13** | **0.076 P** | ND<0.010 | **0.018 P** | **0.024** | All ND* |
| SB11 | 0.5 | 8/9/2021 | **0.28 P** | **0.036** | **0.018 P** | **0.0059 P** | ND<0.0050 | **0.012** | All ND* |
| ***Residential Screening Criteria*** | | | 1.7 | 36 | 36 | 1.9 | 450 | 0.070 | -- |
| ***Screening Criteria Source*** | | | USEPA | USEPA | USEPA | USEPA | Cal/EPA | USEPA | -- |

***Notes:***

Only compounds detected above the laboratory reporting limit are included in the table and are shown in **bold**.

All data are reported in milligrams per kilogram (mg/kg).

Blue shading denotes detected concentrations in excess of residential screening level.

Organochlorine pesticides (OCPs) analyzed by EPA Method 8081A.

Polychlorinated biphenyls (PCBs) analyzed by EPA Method 8082.

-- = not analyzed or not available

bgs = below ground surface

Cal/EPA = California Envrionmental Protection Agency

DDT = dichlorodiphenyltrichloroethane

ND = not detected at or above the laboratory reporting limit shown

ND* = laboratory reporting limit varies for each analyte

OCP = organochlorine pesticidees

PCB = polychlorinated biphenyls

P= analytical qualifier indicating that the agreement between quantitative confirmation results exeed method recommended limits recommended limits.

USEPA = United States Environmental Protection Agency

***Sources:***

California Environmental Protection Agency (Cal/EPA). 2020. Human Health Risk Assessment (HHRA) Note Number 3, Issue: DTSC recommended methodology for use of U.S. EPA Regional Screening Levels (RSLs) in the Human Health Risk Assessment process at hazardous waste sites and permitted facilities. June.

United States Evironmental Protection Agency (USEPA). 2021. Regional Screening Levels for Chemical Contaminants at Superfund Sites. May.

**Table 4: VOCs and TPH in Soil Samples**
**Former Valley Gardens Golf Course, Scotts Valley, California**

| Sample Location | Sample Depth (feet bgs) | Sample Date | Total Petroleum Hydrocarbons | | | Volatile Organic Compounds |
|---|---|---|---|---|---|---|
| | | | TPH-g | TPH-d | TPH-mo | |
| SB01 | 1.0 | 8/9/2021 | ND<1.0 | ND<1.0 | **14** | All ND* |
| | | ***Residential RSL*** | 520 | 96 | 2,400 | -- |
| | | ***Source*** | USEPA | USEPA | USEPA | -- |

***Notes:***
Only compounds detected above the laboratory reporting limit are included in the table and are shown in **bold**.
All data are reported in milligrams per kilogram (mg/kg).

Volatile organic compounds (VOCs) analyzed by EPA Method 8260B.
Total Petroleum Hydrocarbons analyzed by EPA Method 8015B

-- = not available
bgs= below ground surface
Cal/EPA = California Envrionmental Protection Agency
DTSC = Department of Toxic Substances Control
mg/kg = milligrams per kilogram
ND = not detected at or above the laboratory reporting limit shown
ND*= laboratory reporting limit varies for each analyte
RSL = Regional Screening Level
TPH-g = Total Petroleum Hydrocarbons as Gasoline (C4-C12); screening criteria used are for low range aliphatic compounds (C5-C8)
TPH-d = total petroleum hydrocarbons diesel range (C10-C23); screening criteria used are for medium range aliphatic compounds (C9-C18)
TPH-mo = total petroleum hydrocarbons motor oil range (C18-C36); screening criteria used are for high range aromatic compounds (C17-C23)
VOCs= volatile organic compounds
USEPA = United States Environmental Protection Agency

***Sources:***
California Environmental Protection Agency (Cal/EPA). 2020. Human Health Risk Assessment (HHRA) Note Number 3, Issue: DTSC recommended methodology for use of U.S. EPA Regional Screening Levels (RSLs) in the Human Health Risk Assessment process at hazardous waste sites and permitted facilities. June.
United States Evironmental Protection Agency (USEPA). 2021. Regional Screening Levels for Chemical Contaminants at Superfund Sites. May.

**Table 5: VOCs and TPH in Groundwater Samples**
**Former Valley Gardens Golf Course, Scotts Valley, California**

| Sample ID | Sample Date | Total Petroleum Hydrocarbons | | | Volatile Organic Compounds |
|---|---|---|---|---|---|
| | | TPH-g | TPH-d | TPH-mo | Acetone |
| IW-01-20210810 | 8/10/2021 | ND<50 | ND<50 | ND<250 | **450** |
| ***Residential ESL*** | | 760 | 200 | -- | 23,000,000 |
| ***Basis*** | | MCL | MCL | -- | Vapor Intrusion |
| ***Source*** | | SFRWQCB | SFRWQCB | -- | SFRWQCB |

**Notes:**

All data reported in micrograms per liter (µl/L) unless noted otherwise

Only compounds detected above the laboratory reporting limit are included in the table; positive results are shown and are in **bold**

Total Petroleum Hydrocarbons (TPH) analyzed by EPA Methods 8015/8260

Volatile Organic Compounds (VOCs) analyzed by EPA Method 8260

-- = not available (not analyzed or screening level not listed)

ND = not detected above laboratory reporting limit shown

ID = identification

mg/l = milligrams per liter

MCL= maximum contaminant level

NA = not available

SFRWQCB = San Francisco Regional Water Quality Control Board

TPH-d= TPH in the diesel range (C10-C23)

TPH-g = TPH in the gasoline range (C6-C12)

TPH-mo = TPH in the motor oil range (C18-C36)

USEPA = United States Environmental Protection Agency

***Sources:***

San Francisco Bay Regional Water Quality Control Board (RWQCB). 2019. Environmental Screening Levels.Rev 2.

**Table 6: VOCs in Soil Vapor Samples**
**Former Valley Gardens Golf Course, Scotts Valley, California**

| Sample Location | SG01 | SG02 | SG03 | SG04 | SG05 | SG06 | SG07 | SG08 | SG09 | SG10 | *Residential Screening Criteria for Soil Gas Vapor Intrusion* | *Commercial Screening Criteria for Soil Gas Vapor Intrusion* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Probe Depth (feet bgs)** | 3.5 | 3.5 | 4.5 | 3.5 | 4.5 | 3 | 4.5 | 3.5 | 4.5 | 7 | | |
| **Sample Date** | 8/10/2021 | 8/10/2021 | 8/10/2021 | 8/10/2021 | 8/10/2021 | 8/9/2021 | 11/18/2021 | 11/18/2021 | 11/18/2021 | 11/18/2021 | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND<11 | ND<11 | ND<11 | ND<11 | **580** | **22** | ND<2.3 | ND<2.3 | ND<11 | ND<11 | -- | -- |
| 1,1-Dichloroethene | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.9 | **0.88 J** | ND<0.69 | ND<3.5 | ND<3.5 | 2,400 | 10,000 |
| 2-Butanone | **11** | **6.0** | ND<4.4 | **4.5** | **29** | **34** | **36** | **4.1 J** | **16 J** | **9.1 J** | 170,000 | 730,000 |
| Acetone | **85** | **45** | **110** | **87** | **120** | **230** | **170** | **17** | **69** | **59** | 1,100,000 | 4,500,000 |
| Benzene | **6.4** | **13** | **39** | ND<1.6 | **43** | **12** | **37** | **11** | **16** | **42** | 3.2 | 14 |
| Carbon disulfide | **8.1** | **18** | **12** | **11** | **98** | **12** | **77** | **4.0 J** | **69** | **220** | -- | -- |
| Chloroethane | ND<1.3 | ND<1.3 | **10** | ND<1.3 | ND<1.3 | ND<1.9 | ND<0.45 | ND<0.45 | ND<2.3 | ND<2.3 | 350,000 | 1,500,000 |
| Chloroform | ND<2.4 | ND<2.4 | ND<2.4 | **2.5** | ND<2.4 | ND<3.5 | **6.8** | **3.2** | ND<3.9 | ND<3.9 | 4.1 | 18 |
| Chloromethane | **2.3** | **3.2** | **15** | **33** | ND<1.0 | **8.4** | **1.2** | ND<0.33 | ND<1.7 | ND<1.7 | 3,100 | 13,000 |
| Dichlorodifluoromethane | **3.3** | **3.5** | **3.3** | **3.0** | **3.6** | **4.0** | **1.5 J** | **2.4 J** | ND<4.9 | ND<4.9 | -- | -- |
| Ethylbenzene | ND<2.2 | **2.9** | ND<2.2 | ND<2.2 | **5.0** | ND<3.1 | **3.7** | **2.2** | ND<5.4 | ND<5.4 | 37 | 160 |
| Isopropanol | **21** | ND<12 | ND<12 | **39** | ND<12 | ND<18 | **14** | **1.4 J** | ND<4.8 | **7.0 J** | -- | -- |
| m,p-Xylene | ND<8.7 | ND<8.7 | ND<8.7 | ND<8.7 | **9.8** | ND<13 | **7.9 J** | **6.9 J** | ND<14 | **15 J** | 3,500[a] | 15,000[a] |
| Methylene Chloride | ND<17 | ND<17 | ND<17 | ND<17 | ND<17 | ND<25 | **23** | ND<6.9 | ND<35 | ND<35 | 34 | 410 |
| o-Xylene | ND<2.2 | **2.5** | ND<2.2 | ND<2.2 | **2.8** | ND<3.1 | **3.3** | **2.2** | ND<4.3 | **5.6 J** | 3,500[a] | 15,000[a] |
| PCE | **3.6** | ND<3.4 | ND<3.4 | ND<3.4 | **170** | **5.0** | **1.5 J** | **1.5 J** | ND<5.7 | ND<5.7 | 15 | 67 |
| Toluene | **6.0** | **19** | ND<1.9 | ND<1.9 | **41** | **17** | **29** | **16** | **12** | **35** | 10,000 | 44,000 |
| TCE | **2.7** | ND<2.7 | ND<2.7 | ND<2.7 | ND<2.7 | **5.8** | **1.5 J** | ND<0.96 | ND<4.8 | ND<4.8 | 16 | 100 |
| Vinyl acetate | ND<7.0 | ND<7.0 | ND<7.0 | ND<7.0 | **9.1** | **35** | ND<1.2 | ND<1.2 | ND<6.2 | ND<6.2 | -- | -- |

***Notes:***

All data are reported in micrograms per cubic meter ($\mu g/m^3$).

Only compounds detected above the laboratory reporting limit are included in the table; positive results are shown in **bold**.

Blue shading denotes detected concentrations in excess of residential screening criteria.

All samples analyzed for volatile organic compounds (VOCs) by EPA Method TO-15.

-- = not available/applicable

bgs = below ground surface

J = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

ND = not detected at or above the laboratory reporting limit shown

PCE = Tetrachloroethene

TCE = Trichloroethene

VOCs= volatile organic compounds

***Source:***

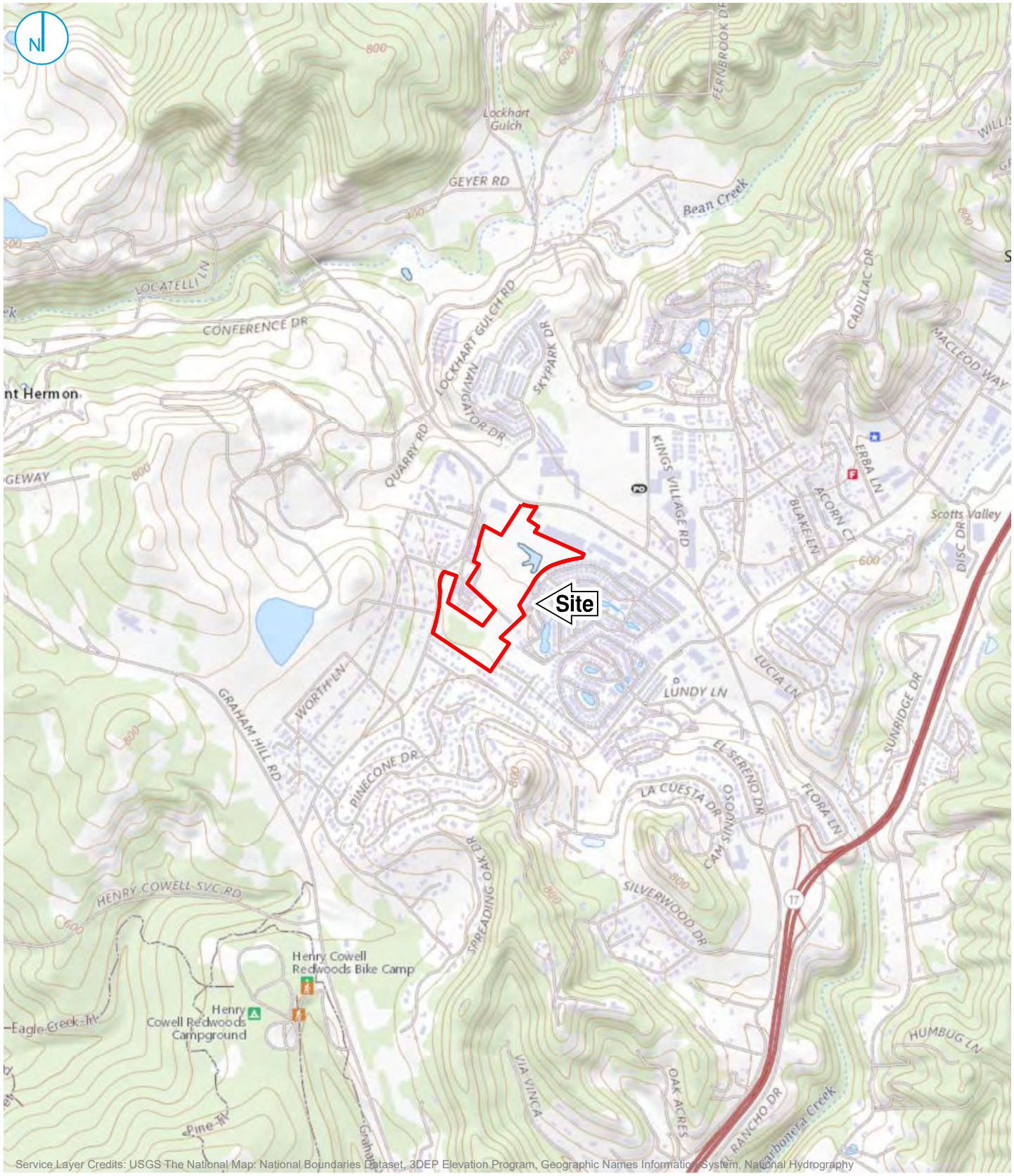
San Francisco Bay Regional Water Quality Control Board (SFRWQCB). 2019. Summary of Soil Vapor ESLs: Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels (Table SG-1). July. Rev 2.

**Table 7: Groundwater Well Specifications**
**Former Valley Gardens Golf Course, Scotts Valley, California**

| Well ID | Depth to groundwater (feet bgs) | Depth to bottom (feet bTOC) | Diameter of well casing (inches) | Condition of Well |
|---|---|---|---|---|
| IW-1 | 155.5 | 185 | 6 | Not operating. Pump and discharge pipe installed in well. |
| IW-2 | NA (obstructed by pump) | >200 | 8 | Not operating. Pump and discharge pipe installed in well. |
| IW-3 | NA (obstructed by pump) | NA | 6 | Not operating. Pump and discharge pipe installed in well. |

**Notes:**
bgs = below ground surface
NA = not available
bTOC = below top of casing

# FIGURES




C:\Users\rmso\OneDrive - Ramboll\Desktop\drawing\1\1690021780\1690021780-scotts-valley-locmap.mxd

PROJECT: 1690021780 | DATED: 12/6/2021 | DESIGNER: RMSO



KEY MAP

Map Scale: 1:1:24,000;
Map Center: 122°2'2"W 37°2'41"N

**LEGEND**

Approximate Site Boundary

0 1,000 2,000 Feet

## SITE LOCATION MAP

**Former Valley Gardens Golf Course**
263 Mount Hermon Road and 475 Lockewood Lane
Scotts Valley, California

## FIGURE 1

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY

RAMBOLL




C:\Users\rmso\OneDrive - Ramboll\Desktop\drawing1\1169002178O\1690021780-scotts-valley-detail_Fig2.mxd

PROJECT: 169000XXXX | DATED: 12/6/2021 | DESIGNER: RMSO

**LEGEND**

- Approximate Site Boundary
- Approximate Location of Well

0 150 300 Feet

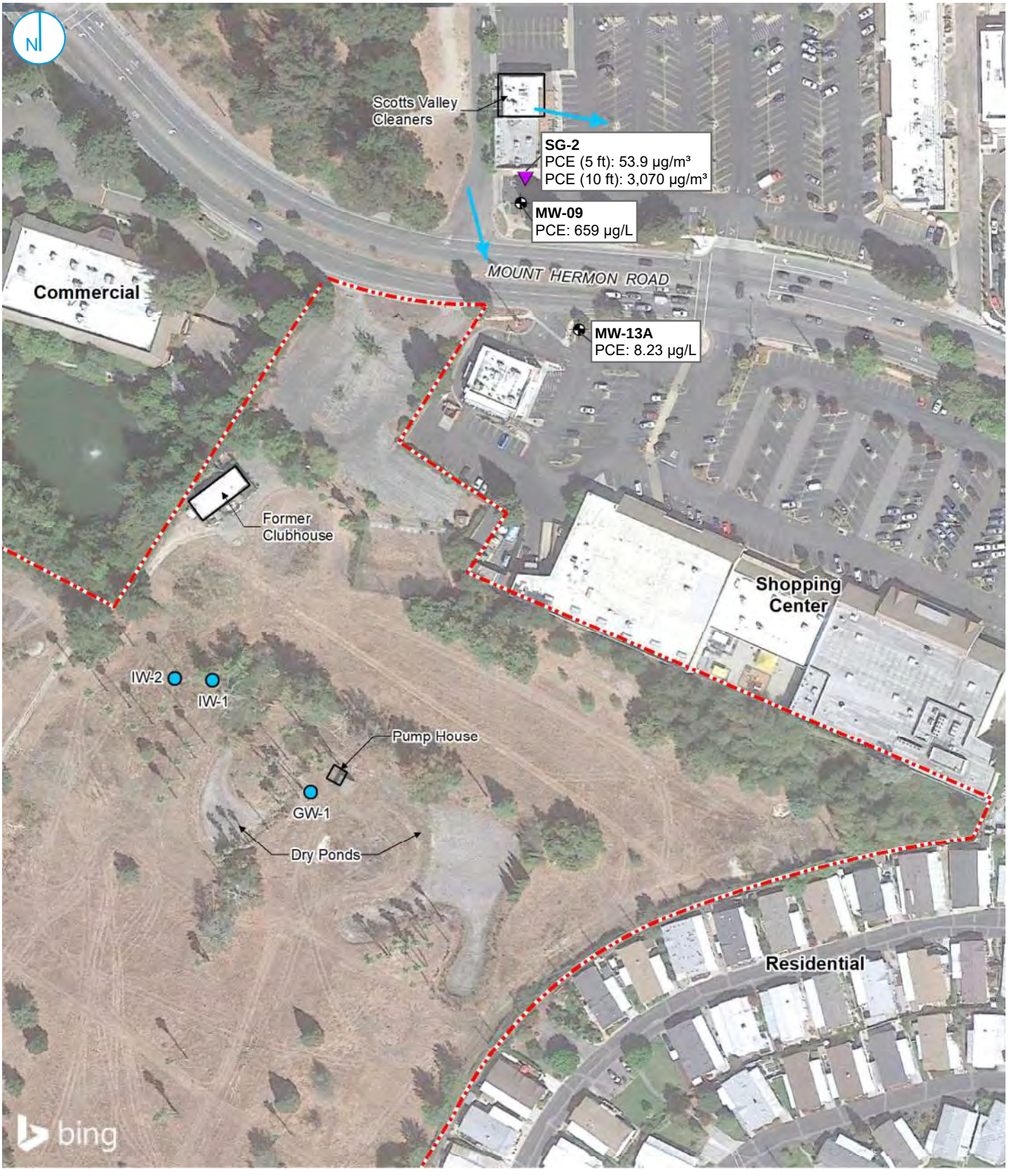
## SITE LAYOUT

**Former Valley Gardens Golf Course**
263 Mount Hermon Road and 475 Lockewood Lane
Scotts Valley, California

## FIGURE 2

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY

RAMBOLL




C:\Users\rmso\OneDrive - Ramboll\Desktop\drawing1\1169002178O\1690021780-scotts-valley-detail_Fig3.mxd

PROJECT: 169000XXXX | DATED: 12/3/2021 | DESIGNER: RMSO

**LEGEND**

- Approximate Site Boundary
- Off-site Monitoring Well Location (Terraphase, December 2020)
- Off-site Dual-Depth Soil Gas Sample Location (Terraphase, May 2018)
- Approximate Location of Well
- Approximate direction of groundwater flow (December 2020)

µg/m³ = micrograms per cubic meter

µg/L = micrograms per liter

0 75 150 Feet

# OFF-SITE TETRACHLOROETHENE (PCE) CONCENTRATIONS IN SOIL VAPOR AND GROUNDWATER

**Former Valley Gardens Golf Course**
263 Mount Hermon Road and 475 Lockewood Lane
Scotts Valley, California

**FIGURE 3**

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY




# POND SEDIMENT SAMPLE LOCATION MAP

## FIGURE 4

**LEGEND**

- Pond Sediment Sample Location (2016)
- Approximate Site Boundary

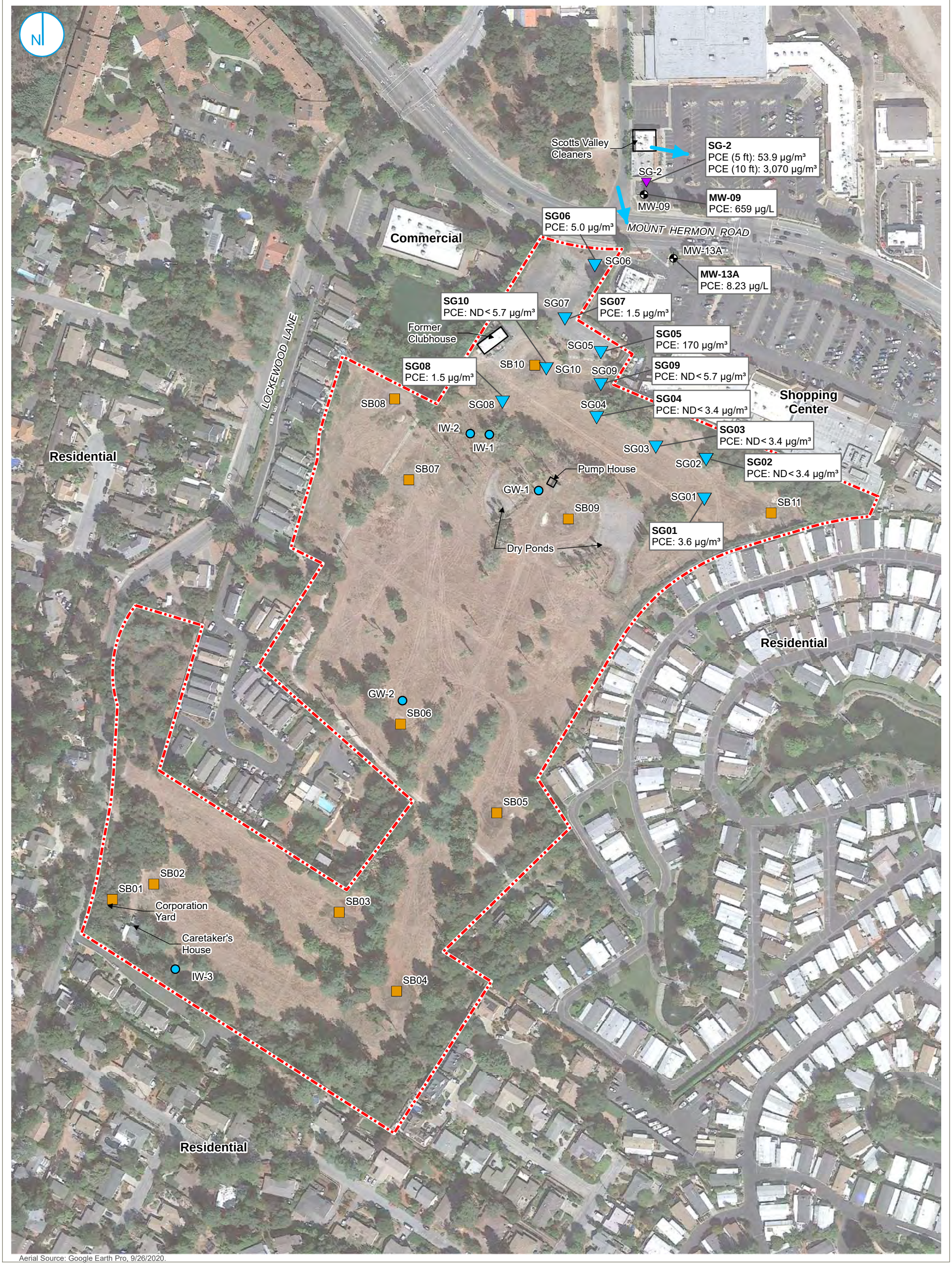
0 40 80 Feet

**NOTE:**
Aerial image from April 2016, which is representative of site conditions when samples were collected.

**Former Valley Gardens Golf Course**
263 Mount Hermon Road and 475 Lockewood Lane
Scotts Valley, California

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY

RAMBOLL




Aerial Source: Google Earth Pro, 9/26/2020.

**LEGEND**

- Soil Vapor Sample Location
- Soil Sample Location
- Approximate Location of Well
- Off-site Monitoring Well Location (Terraphase, December 2020)
- Off-site Dual-Depth Soil Gas Sample Location (Terraphase, May 2018)
- Approximate direction of groundwater flow (December 2020)
- Approximate Site Boundary

µg/m³ = micrograms per cubic meter

µg/L = micrograms per liter

PCE = tetrachloroethene

0 100 200 Feet

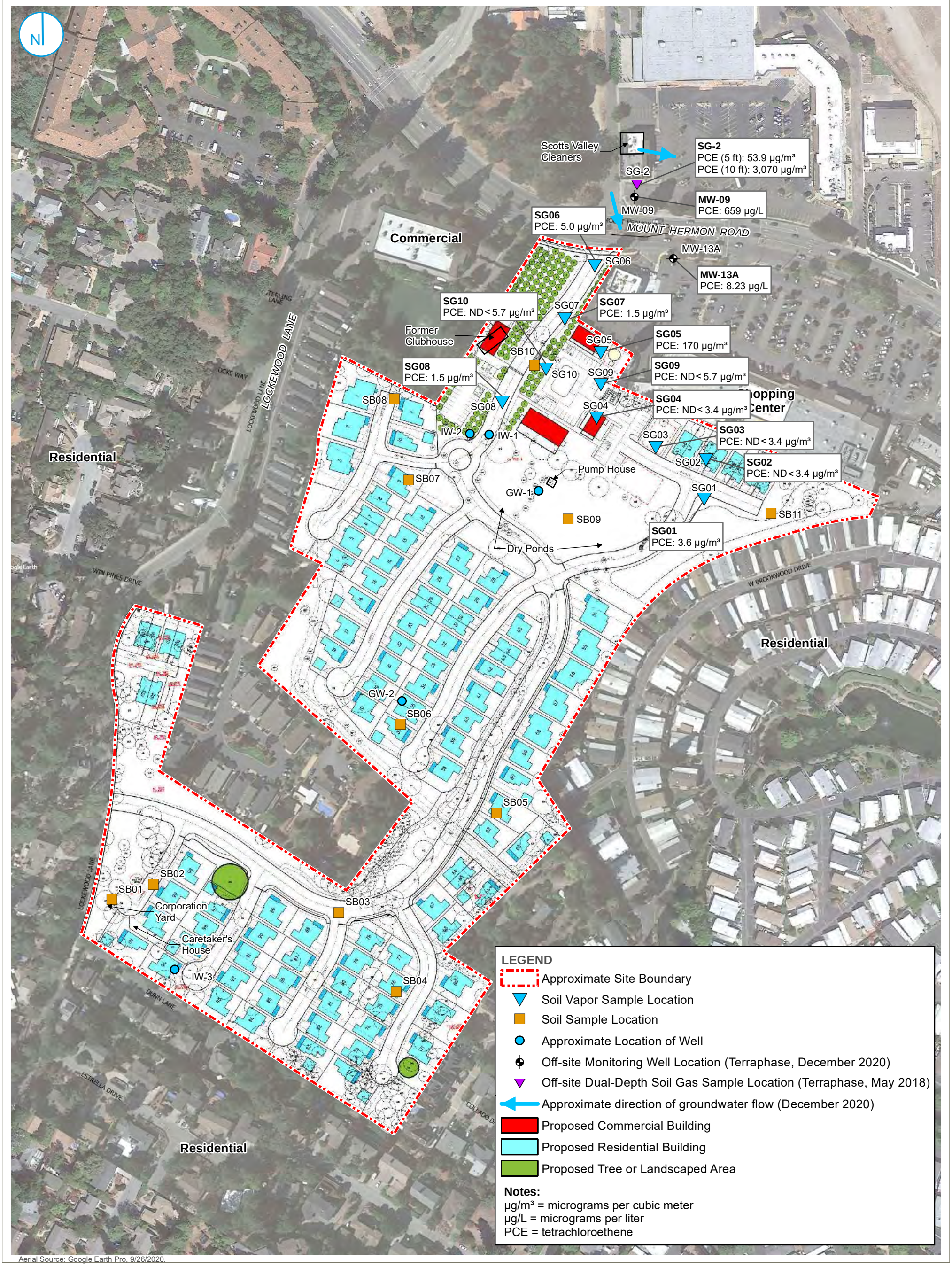
# SAMPLE LOCATION MAP

**Former Valley Gardens Golf Course**
263 Mount Hermon Road and 475 Lockewood Lane
Scotts Valley, California

**FIGURE 5a**

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY

RAMBOLL




Aerial Source: Google Earth Pro, 9/26/2020.

0 100 200 Feet

## SAMPLE LOCATION MAP WITH PROPOSED REDEVELOPMENT

**Former Valley Gardens Golf Course**
263 Mount Hermon Road and 475 Lockewood Lane
Scotts Valley, California

FIGURE 5b

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY

# APPENDIX A
# SITE PHOTOGRAPHS




Photo 1: Looking south at the entrance to Valley Gardens Golf Course.



Photo 2: Looking south at a portion of Valley Garden's asphalt paved parking lot.



Photo 3: Looking south at the former driving range.



Photo 4: View looking northwest at the exterior of the former Valley gardens Clubhouse. The building is currently intermittently occupied as a residence for the owners.



Photo 5: Interior of the former clubhouse.




Photo 6: View of the interior of the office area within the former clubhouse.



Photo 7: View of the main point of entry for the site's electrical room. Located northwest of the former clubhouse.



Photo 8: View of miscellaneous storage within a shed located to the northwest of the former clubhouse.



Photo 9: Looking south at the former golf course.



Photo 10: View looking southwest at sand storage area located on the western portion of the site.



Photo 11: View of the exterior of the residence ("caretaker's house") located on 475 Lockewood Lane at the southwest corner of the site.



Photo 12: View of the former "corporation yard" where course maintenance equipment was stored. The corporation yard is located on the southwest corner of the site.



Photo 13: View of remnant mowers and miscellaneous course maintenance equipment located in exterior portions of the corporation yard. Note staining on concrete floor in equipment parking area.



Photo 14: View of remnant miscellaneous course maintenance equipment located in exterior portions of the corporation yard. Note staining of plywood adjacent to unpaved ground.



Photo 15: View of remnant miscellaneous course maintenance equipment located in the interior of the shed in the corporation yard.



Photo 16: View of remnant miscellaneous course maintenance equipment and office area located in the interior of the shed in the corporation yard.



Photo 17: View of floor staining and staining on cabinets in the interior of the corporation yard. Facility personnel did not know the exact former chemical storage in this area.

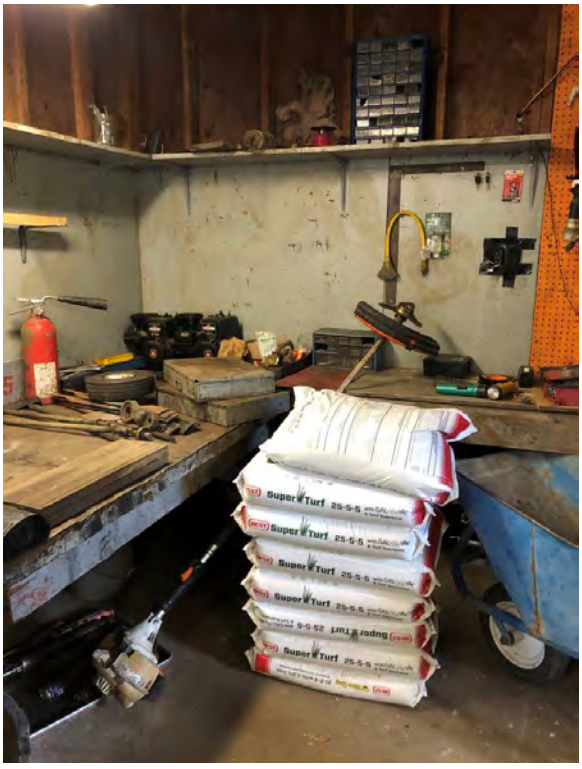



Photo 18: View of grass seed and miscellaneous equipment stored in the interior of the corporation yard.



Photo 19: View of the exterior of the water tank storage area. The interior of the structure was not accessible at the time of the site visit.



Photo 20: View of one on-site production well in the central portion of the site. The former clubhouse is located in the background of the photo.

# APPENDIX B
# ENVIRONMENTAL DATABASE REPORT

EDR conducted its searches for the standard environmental record sources and the minimum search distances, as specified by the ASTM Standard. The ASTM Standard uses the terminology “approximate minimum search distance” to refer to the radii searched in the environmental database report.

EDR conducted the search of environmental databases in December 2017. Because the environmental databases themselves are sometimes not updated by the specific regulatory agencies for periods of up to one year or more (depending on the database and the state), the database search conducted herein will not necessarily list any facility or site for which an environmental investigation/listing has been initiated subsequent to the last update.

**Valley Gardens Golf Course**
263 Mount Hermon Road
Scotts Valley, CA  95066

Inquiry Number: 06469411.2r
April 28, 2021

# The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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**GEOCHECK ADDENDUM**

| | |
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***Thank you for your business.***
Please contact EDR at 1-800-352-0050
with any questions or comments.


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# EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

## TARGET PROPERTY INFORMATION

### ADDRESS

263 MOUNT HERMON ROAD
SCOTTS VALLEY, CA 95066

### COORDINATES

| | |
|---|---|
| Latitude (North): | 37.0452190 - 37° 2' 42.78'' |
| Longitude (West): | 122.0339270 - 122° 2' 2.13'' |
| Universal Tranverse Mercator: | Zone 10 |
| UTM X (Meters): | 585909.7 |
| UTM Y (Meters): | 4100121.8 |
| Elevation: | 520 ft. above sea level |

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

| | |
|---|---|
| Target Property Map: | 5640612 FELTON, CA |
| Version Date: | 2012 |

### AERIAL PHOTOGRAPHY IN THIS REPORT

| | |
|---|---|
| Portions of Photo from: | 20140606 |
| Source: | USDA |

# MAPPED SITES SUMMARY

Target Property Address:
263 MOUNT HERMON ROAD
SCOTTS VALLEY, CA 95066

Click on Map ID to see full detail.

| MAP ID | SITE NAME | ADDRESS | DATABASE ACRONYMS | RELATIVE ELEVATION | DIST (ft. & mi.) DIRECTION |
|---|---|---|---|---|---|
| A1 | VALLEY GARDENS GOLF | 475 LOCKWOOD LN | HAZNET, HWTS | | TP |
| A2 | VALLEY GARDENS GOLF | 263 MT HERMON RD | CUPA Listings, CERS | | TP |
| A3 | SANDY WOODRUFF | 475 LOCKWOOD LANE | FINDS, ECHO | | TP |
| A4 | SANDY WOODRUFF | 475 LOCKWOOD LANE | RCRA NonGen / NLR | | TP |
| A5 | VALLEY GARDENS GOLF | 263 MT HERMAN RD | SEMS-ARCHIVE | | TP |
| A6 | VALLEY GARDENS GOLF | 263 MT HERMON RD | FINDS | | TP |
| Reg | WATKINS-JOHNSON CO. | 440 KINGS VILLAGE RD | NPL, SEMS, US ENG CONTROLS, ROD, PRP, CONSENT | Same | 1476, 0.280, NNE |
| 7 | RICHARD CORONA | 307 LOCKEWOOD LN | HAZNET, HWTS | Higher | 5, 0.001, |
| B8 | CVS PHARMACY # 9862 | 257 MOUNT HERMON RD | CERS HAZ WASTE, HAZNET, CERS, HWTS | Lower | 67, 0.013, NE |
| B9 | CVS PHARMACY #9862 | 257 MOUNT HERMON RD | RCRA-LQG, FINDS, ECHO | Lower | 67, 0.013, NE |
| B10 | CVS PHARMACY #9862 | 257 MOUNT HERMON RD | RCRA-LQG | Lower | 67, 0.013, NE |
| B11 | CVS PHARMACY #9862 | 257 MOUNT HERMON RD | CUPA Listings | Lower | 67, 0.013, NE |
| C12 | SKYPARK AIRPORT | 400 MT HERMAN ROAD | ENVIROSTOR | Lower | 82, 0.016, NNE |
| 13 | HOODS JAMIE SPEEDMAC | 163 ESTRELLA RD | SEMS-ARCHIVE | Higher | 167, 0.032, SSW |
| C14 | SCOTTS VALLEY CLEANE | 272 "A" MT HERMON RO | RCRA-SQG | Lower | 171, 0.032, NNE |
| D15 | SAFEWAY 300 | 253 MT HERMON RD | RCRA-VSQG, FINDS | Lower | 185, 0.035, ENE |
| D16 | SAFEWAY STORE #300 | 253 MOUNT HERMON RD | CERS HAZ WASTE, CUPA Listings, HAZNET, CERS, HWTS | Lower | 185, 0.035, ENE |
| C17 | 7-ELEVEN INC. STORE | 274 MOUNT HERMON RD | CUPA Listings | Lower | 210, 0.040, NNE |
| C18 | SCOTTS VALLEY DRY CL | 272 A MT HERMON | HIST CORTESE | Lower | 212, 0.040, NNE |
| C19 | SCOTTS VALLEY CLEANE | 272 A & B MT HERMON | EDR Hist Cleaner | Lower | 227, 0.043, NNE |
| C20 | SCOTTS VALLEY CLEANE | 272 MOUNT HERMON RD | RCRA NonGen / NLR | Lower | 228, 0.043, NNE |
| C21 | SCOTTS VALLEY SQUARE | 272-A MOUNT HERMAN R | ENVIROSTOR | Lower | 228, 0.043, NNE |
| C22 | SCOTTS VALLEY DRY CL | 272 MOUNT HERMON ROA | CPS-SLIC, CERS | Lower | 228, 0.043, NNE |
| C23 | SCOTTS VALLEY CLEANE | 272 MOUNT HERMON RD | DRYCLEANERS, HAZNET, CERS, HWTS | Lower | 228, 0.043, NNE |
| C24 | SCOTTS VALLEY CLEANE | 272 MT HERMON RD | CUPA Listings | Lower | 228, 0.043, NNE |
| C25 | SCOTTS VALLEY CLEANE | 272 MOUNT HERMON RD | EDR Hist Cleaner | Lower | 228, 0.043, NNE |
| C26 | 272A MOUNT HERMON RD | 272 MOUNT HERMON | Cortese, ENF, NPDES, CERS | Lower | 228, 0.043, NNE |
| C27 | KEYME INC | 270 MT HERMON RD | RCRA NonGen / NLR | Lower | 229, 0.043, NNE |
| C28 | KEYME INC | 270 MT HERMON RD | RCRA-VSQG, FINDS | Lower | 229, 0.043, NNE |
| C29 | KMART #9797 | 270 MOUNT HERMON RD | CUPA Listings | Lower | 229, 0.043, NNE |
| C30 | SCOTTS VALLEY CLEANE | 272 MT HERMON RD #A | CERS HAZ WASTE, CERS | Lower | 229, 0.043, NNE |
| C31 | DOLLAR TREE #03759 | 266 MOUNT HERMON RD | CERS HAZ WASTE, CUPA Listings, HAZNET, CERS | Lower | 231, 0.044, NNE |
| C32 | DOLLAR TREE #03759 | 266 MOUNT HERMON RD | RCRA NonGen / NLR | Lower | 231, 0.044, NNE |
| C33 | SCOTTS VALLEY SQUARE | 266 MOUNT HERMON ROA | SEMS-ARCHIVE | Lower | 231, 0.044, NNE |
| D34 | ART CLEANERS | 245 MOUNT HERMON RD | CERS HAZ WASTE, DRYCLEANERS, CERS | Lower | 379, 0.072, ENE |
| D35 | SUN KIM | 245 G MT HERMAN ROAD | EDR Hist Cleaner | Lower | 379, 0.072, ENE |
| D36 | ART DRY CLEANERS | 245-G MOUNT HERMON R | CPS-SLIC, CERS | Lower | 379, 0.072, ENE |
| D37 | O'REILLY AUTO PARTS | 245 MOUNT HERMON RD | CERS HAZ WASTE, CERS | Lower | 379, 0.072, ENE |
| D38 | DELIAS CLEANERS | 245 G MT HERMON | EDR Hist Cleaner | Lower | 379, 0.072, ENE |

## MAPPED SITES SUMMARY

Target Property Address:
263 MOUNT HERMON ROAD
SCOTTS VALLEY, CA 95066

Click on Map ID to see full detail.

| MAP ID | SITE NAME | ADDRESS | DATABASE ACRONYMS | RELATIVE ELEVATION | DIST (ft. & mi.) DIRECTION |
|---|---|---|---|---|---|
| D39 | O'REILLY AUTO PARTS | 245 MOUNT HERMON RD | CUPA Listings | Lower | 379, 0.072, ENE |
| D40 | O'REILLY AUTO PARTS | 245 MOUNT HERMON RD | RCRA NonGen / NLR | Lower | 379, 0.072, ENE |
| D41 | DELIAS CLEANERS | 245 MOUNT HERMON RD | EDR Hist Cleaner | Lower | 379, 0.072, ENE |
| 42 | ART CLEANERS | 245 MOUNT HERMON RD | CUPA Listings, CERS | Lower | 399, 0.076, ENE |
| 43 | SHAWS CLEANERS | 245 G MT HERMON RD | RCRA-SQG | Lower | 465, 0.088, NE |
| 44 | WESCOSA/T.H. RAMSEY | 662 MOUNT HERMON RD | SWEEPS UST | Lower | 507, 0.096, North |
| E45 | SPRING LAKES PARK | 225 MOUNT HERMON RD | HIST UST, CERS | Lower | 583, 0.110, ESE |
| E46 | SPRING LAKES PARK | 225 MT HERMON RD | HIST UST | Lower | 583, 0.110, ESE |
| E47 | SPRING LAKES PARK | 225 MOUNT HERMON RD | SWEEPS UST, CA FID UST, CUPA Listings | Lower | 583, 0.110, ESE |
| E48 | BOLLINGER CHEVRON | 225 MOUNT HERMON RD | EDR Hist Auto | Lower | 583, 0.110, ESE |
| F49 | BAY PHOTO INC SCOTTS | 235 MOUNT HERMON RD | RCRA-SQG, FINDS, ECHO | Lower | 585, 0.111, East |
| F50 | SKY PARK ARPT LEACHF | MT HERMAN RD&KINGS V | SEMS-ARCHIVE | Lower | 710, 0.134, East |
| G51 | FRANKS AUTO DISMANTL | 700 MOUNT HERMAN ROA | ENVIROSTOR | Lower | 787, 0.149, NNW |
| G52 | FORMER FRANK'S AUTO | 700 MT. HERMON RD | CPS-SLIC | Lower | 787, 0.149, NNW |
| G53 | FORMER FRANKS AUTO W | 700 MOUNT HERMON RD | SWEEPS UST | Lower | 787, 0.149, NNW |
| F54 | CINELUX CINEMA | 226 MOUNT HERMON ROA | RCRA NonGen / NLR | Lower | 791, 0.150, East |
| F55 | KINGS CLEANERS | 222 MT HERMAN RD | SEMS-ARCHIVE, RCRA-SQG | Lower | 844, 0.160, East |
| F56 | KING'S CLEANERS | 222 MOUNT HERMON ROA | CPS-SLIC, DRYCLEANERS | Lower | 844, 0.160, East |
| F57 | NOB HILL # 620 | 222 MOUNT HERMON RD | CERS HAZ WASTE, CERS | Lower | 844, 0.160, East |
| F58 | KINGS CLEANERS | 222 MT HERMAN RD | EDR Hist Cleaner | Lower | 844, 0.160, East |
| F59 | NOB HILL # 620 | 222 MT. HERMON RD | CUPA Listings | Lower | 844, 0.160, East |
| F60 | NOB HILL #620 | 222 MT HERMAN RD | RCRA NonGen / NLR | Lower | 844, 0.160, East |
| F61 | KINGS CLEANERS | 222 K MT HERMAN | EDR Hist Cleaner | Lower | 844, 0.160, East |
| H62 | SKYPARK AIRPORT LEAC | MOUNT HERMAN & KING' | RESPONSE, ENVIROSTOR | Lower | 879, 0.166, East |
| H63 | COAST TO COAST HARDW | 218 MOUNT HERMON RD | CA FID UST | Lower | 896, 0.170, East |
| H64 | COAST TO COAST HARDW | 218 MOUNT HERMON RD | LUST, SWEEPS UST, HIST UST, Cortese, CERS | Lower | 896, 0.170, East |
| H65 | SCARBOROUGH ACE HARD | 218 MT HERMON RD | RCRA NonGen / NLR | Lower | 896, 0.170, East |
| H66 | SKIPS TIRE SCOTTS VA | 231 MOUNT HERMON RD | RCRA NonGen / NLR | Lower | 913, 0.173, East |
| H67 | GOODYEAR SCOTTS VALL | 231 MT HERMON RD | SWEEPS UST, CUPA Listings | Lower | 913, 0.173, East |
| H68 | SCOTTS VALLEY GOODYE | 231 MT HERMON RD | RCRA-SQG, FINDS, ECHO | Lower | 913, 0.173, East |
| H69 | GOODYEAR SCOTTS VALL | 231 MT HERMAN RD | CA FID UST | Lower | 913, 0.173, East |
| H70 | TIRE CHOICE | 231 MOUNT HERMON RD | RCRA NonGen / NLR | Lower | 913, 0.173, East |
| H71 | MR TIRE INC | 231 MT HERMON RD | CERS HAZ WASTE, HAZNET, HWTS | Lower | 913, 0.173, East |
| H72 | WALGREENS #6214 | 210 MOUNT HERMON RD | RCRA-VSQG | Lower | 995, 0.188, East |
| H73 | WALGREENS #6214 | 210 MOUNT HERMON RD | CERS HAZ WASTE, CUPA Listings, HAZNET, CERS, HWTS | Lower | 995, 0.188, East |
| 74 | MIKE & FUZZY BARAJAS | 115 WHISPERING PINES | RCRA NonGen / NLR | Higher | 1003, 0.190, SSE |
| H75 | GENUINE PARTS CO DBA | 214 MOUNT HERMAN RD | RCRA NonGen / NLR | Lower | 1004, 0.190, East |
| H76 | SCOTTS VALLEY WATER | 229 MT HERMON RD | CUPA Listings, CERS | Lower | 1030, 0.195, East |
| H77 | C C COLOR LAB | 218 MT HERMON RD UNI | RCRA-SQG, HIST UST, FINDS, ECHO, HAZNET, HWTS | Lower | 1050, 0.199, East |

## MAPPED SITES SUMMARY

Target Property Address:
263 MOUNT HERMON ROAD
SCOTTS VALLEY, CA 95066

Click on Map ID to see full detail.

| MAP ID | SITE NAME | ADDRESS | DATABASE ACRONYMS | RELATIVE ELEVATION | DIST (ft. & mi.) DIRECTION |
|---|---|---|---|---|---|
| I78 | DIGNITY HEALTH MEDIC | 223A MT HERMAN ROAD | RCRA NonGen / NLR | Lower | 1105, 0.209, East |
| 79 | KAISER PIT | MOUNT HERMON ROAD | ENVIROSTOR | Higher | 1231, 0.233, NW |
| I80 | BONDS CAMP EVERS SER | 200 MT HERMAN RD | EDR Hist Auto | Higher | 1256, 0.238, East |
| I81 | SS#9-1337 | 200 MOUNT HERMON RD | LUST, Cortese, ENF, HIST CORTESE, CERS | Higher | 1256, 0.238, East |
| J82 | SKYPARK AIRPORT PROP | 400 KINGS VILLAGE RD | LUST, Cortese, CERS | Higher | 1505, 0.285, NE |
| J83 | FORMER CITY HALL/CIT | 370 KINGS VILLAGE RD | LUST, SWEEPS UST, HIST UST, HIST CORTESE | Higher | 1507, 0.285, NE |
| K84 | MOBIL STATION #10-KD | 201 MOUNT HERMON RD | LUST, Cortese, CERS | Higher | 1601, 0.303, ESE |
| K85 | BP OIL FACILITY NO 1 | 201 MOUNT HERMON RD | LUST | Higher | 1601, 0.303, ESE |
| K86 | MOBIL SERVICE STATIO | 201 MT HERMON RD | LUST, AST, CERS HAZ WASTE, HIST UST, CERS TANKS,... | Higher | 1601, 0.303, ESE |
| K87 | BP #11239 | 201 MOUNT HERMON RD | LUST, HIST UST, Cortese, CERS | Higher | 1601, 0.303, ESE |
| L88 | TOSCO - FACILITY #61 | 99 MOUNT HERMON RD | LUST, Cortese, HAZNET, CERS, HWTS | Lower | 1862, 0.353, ESE |
| L89 | TOSCO - FACILITY #61 | 99 MOUNT HERMON RD | LUST, HIST UST | Lower | 1862, 0.353, ESE |
| L90 | UNOCAL SERVICE STATI | 99 MT HERMON RD | SWEEPS UST, CUPA Listings, HIST CORTESE | Lower | 1862, 0.353, ESE |
| M91 | SCOTTS VALLEY MIDDLE | 8 BEAN CREEK | ENVIROSTOR, LUST, SCH, HIST CORTESE, Notify 65 | Higher | 1871, 0.354, East |
| M92 | SCOTTS VALLEY MIDDLE | 8 BEAN CREEK RD | SEMS-ARCHIVE, LUST, Cortese, HAZNET, NPDES, CERS,... | Higher | 1871, 0.354, East |
| N93 | 440 KINGS VILLAGE RO | 440 KINGS VILLAGE RO | CPS-SLIC, SWEEPS UST, CA FID UST, Cortese, CUPA... | Lower | 1897, 0.359, NNE |
| N94 | WATKINS JOHNSON CO ( | 440 KINGS VILLAGE RO | CPS-SLIC, HIST Cal-Sites, EMI | Lower | 1897, 0.359, NNE |
| N95 | 440 KINGS VILLAGE RO | 440 KINGS VILLAGE RO | ENVIROSTOR, ENF, HIST CORTESE, NPDES, CIWQS | Lower | 1897, 0.359, NNE |
| L96 | LARRYS SHELL | 90 MT HERMON RD | LUST, HIST UST, Cortese, CUPA Listings, HIST... | Higher | 2051, 0.388, ESE |
| L97 | KERAKACIN ENTERPRISE | 90 MOUNT HERMON ROAD | LUST, HIST UST, ENF, CERS | Higher | 2051, 0.388, ESE |
| L98 | SHELL OIL COMPANY | 90 MT. HERMON | Notify 65 | Higher | 2051, 0.388, ESE |
| 99 | SEAGATE TECHNOLOGY # | 920 DISC DRIVE | ENVIROSTOR, EMI | Higher | 4507, 0.854, East |

# EXECUTIVE SUMMARY

## TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

| Site | Database(s) | EPA ID |
|---|---|---|
| VALLEY GARDENS GOLF<br>475 LOCKWOOD LN<br>SCOTTS VALLEY, CA 95066 | HAZNET<br>GEPAID: CAC002311673<br>HWTS | N/A |
| VALLEY GARDENS GOLF<br>263 MT HERMON RD<br>SCOTTS VALLEY, CA 95066 | CUPA Listings<br>Database: CUPA SANTA CRUZ, Date of Government Version: 01/21/2017<br>Facility Id: FA0003477<br>CERS | N/A |
| SANDY WOODRUFF<br>475 LOCKWOOD LANE<br>SCOTTS VALLEY, CA 95066 | FINDS<br>ECHO<br>Registry ID: 110070860335 | N/A |
| SANDY WOODRUFF<br>475 LOCKWOOD LANE<br>SCOTTS VALLEY, CA 95066 | RCRA NonGen / NLR | CAC003073639 |
| VALLEY GARDENS GOLF<br>263 MT HERMAN RD<br>SCOTTS VALLEY, CA 95066 | SEMS-ARCHIVE<br>Site ID: 0901542<br>EPA Id: CAD069127470 | CAD069127470 |
| VALLEY GARDENS GOLF<br>263 MT HERMON RD<br>SCOTTS VALLEY, CA 95066 | FINDS<br>Registry ID:: 110066346485 | N/A |

## DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

## STANDARD ENVIRONMENTAL RECORDS

### *Federal NPL site list*

Proposed NPL---------- Proposed National Priority List Sites

NPL LIENS ---------- Federal Superfund Liens

***Federal Delisted NPL site list***

Delisted NPL ---------- National Priority List Deletions

***Federal CERCLIS list***

FEDERAL FACILITY ---------- Federal Facility Site Information listing

***Federal RCRA CORRACTS facilities list***

CORRACTS ---------- Corrective Action Report

***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

***Federal institutional controls / engineering controls registries***

LUCIS ---------- Land Use Control Information System
US INST CONTROLS ---------- Institutional Controls Sites List

***Federal ERNS list***

ERNS ---------- Emergency Response Notification System

***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF ---------- Solid Waste Information System

***State and tribal leaking storage tank lists***

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

***State and tribal registered storage tank lists***

FEMA UST ---------- Underground Storage Tank Listing
UST ---------- Active UST Facilities
AST ---------- Aboveground Petroleum Storage Tank Facilities
INDIAN UST ---------- Underground Storage Tanks on Indian Land

***State and tribal voluntary cleanup sites***

VCP ---------- Voluntary Cleanup Program Properties
INDIAN VCP ---------- Voluntary Cleanup Priority Listing

***State and tribal Brownfields sites***

BROWNFIELDS ---------- Considered Brownfieds Sites Listing

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Brownfield lists***

US BROWNFIELDS ---------- A Listing of Brownfields Sites

# EXECUTIVE SUMMARY

***Local Lists of Landfill / Solid Waste Disposal Sites***

| | |
|---|---|
| WMUDS/SWAT | Waste Management Unit Database |
| SWRCY | Recycler Database |
| HAULERS | Registered Waste Tire Haulers Listing |
| INDIAN ODI | Report on the Status of Open Dumps on Indian Lands |
| DEBRIS REGION 9 | Torres Martinez Reservation Illegal Dump Site Locations |
| ODI | Open Dump Inventory |
| IHS OPEN DUMPS | Open Dumps on Indian Land |

***Local Lists of Hazardous waste / Contaminated Sites***

| | |
|---|---|
| US HIST CDL | Delisted National Clandestine Laboratory Register |
| SCH | School Property Evaluation Program |
| CDL | Clandestine Drug Labs |
| Toxic Pits | Toxic Pits Cleanup Act Sites |
| US CDL | National Clandestine Laboratory Register |
| PFAS | PFAS Contamination Site Location Listing |

***Local Lists of Registered Storage Tanks***

| | |
|---|---|
| CERS TANKS | California Environmental Reporting System (CERS) Tanks |

***Local Land Records***

| | |
|---|---|
| LIENS | Environmental Liens Listing |
| LIENS 2 | CERCLA Lien Information |
| DEED | Deed Restriction Listing |

***Records of Emergency Release Reports***

| | |
|---|---|
| HMIRS | Hazardous Materials Information Reporting System |
| CHMIRS | California Hazardous Material Incident Report System |
| LDS | Land Disposal Sites Listing |
| MCS | Military Cleanup Sites Listing |
| SPILLS 90 | SPILLS 90 data from FirstSearch |

***Other Ascertainable Records***

| | |
|---|---|
| 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 |
| 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
INDIAN RESERV Indian Reservations
FUSRAP Formerly Utilized Sites Remedial Action Program
UMTRA Uranium Mill Tailings Sites
LEAD SMELTERS Lead Smelter Sites
US AIRS Aerometric Information Retrieval System Facility Subsystem
US MINES Mines Master Index File
ABANDONED MINES Abandoned Mines
DOCKET HWC Hazardous Waste Compliance Docket Listing
UXO Unexploded Ordnance Sites
FUELS PROGRAM EPA Fuels Program Registered Listing
CA BOND EXP. PLAN Bond Expenditure Plan
EMI Emissions Inventory Data
ENF Enforcement Action Listing
Financial Assurance Financial Assurance Information Listing
ICE ICE
HWP EnviroStor Permitted Facilities Listing
HWT Registered Hazardous Waste Transporter Database
MINES Mines Site Location Listing
MWMP Medical Waste Management Program Listing
NPDES NPDES Permits Listing
PEST LIC Pesticide Regulation Licenses Listing
PROC Certified Processors Database
UIC UIC Listing
UIC GEO UIC GEO (GEOTRACKER)
WASTEWATER PITS Oil Wastewater Pits Listing
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
NON-CASE INFO NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ Well Stimulation Project (GEOTRACKER)
MINES MRDS Mineral Resources Data System

**EDR HIGH RISK HISTORICAL RECORDS**

***EDR Exclusive Records***

EDR MGP EDR Proprietary Manufactured Gas Plants

**EDR RECOVERED GOVERNMENT ARCHIVES**

***Exclusive Recovered Govt. Archives***

RGA LF Recovered Government Archive Solid Waste Facilities List

# EXECUTIVE SUMMARY

RGA LUST---------- Recovered Government Archive Leaking Underground Storage Tank

**SURROUNDING SITES: SEARCH RESULTS**

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

**STANDARD ENVIRONMENTAL RECORDS**

***Federal NPL site list***

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 12/30/2020 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***WATKINS-JOHNSON CO.***<br>Cerclis ID:: 902226<br>EPA Id: CAD980893234 | ***440 KINGS VILLAGE RD*** | ***NNE 1/4 - 1/2 (0.280 mi.)*** | ***0*** | ***21*** |

***Federal CERCLIS list***

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 12/30/2020 has revealed that there is 1 SEMS site within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***WATKINS-JOHNSON CO.***<br>Site ID: 0902226<br>EPA Id: CAD980893234 | ***440 KINGS VILLAGE RD*** | ***NNE 1/4 - 1/2 (0.280 mi.)*** | ***0*** | ***21*** |

# EXECUTIVE SUMMARY

***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 12/30/2020 has revealed that there are 5 SEMS-ARCHIVE sites within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| HOODS JAMIE SPEEDMAC<br>Site ID: 0902235<br>EPA Id: CAD980893473 | 163 ESTRELLA RD | SSW 0 - 1/8 (0.032 mi.) | 13 | 79 |
| ***SCOTTS VALLEY MIDDLE***<br>Site ID: 0902231<br>EPA Id: CAD980893358 | ***8 BEAN CREEK RD*** | ***E 1/4 - 1/2 (0.354 mi.)*** | ***M92*** | ***433*** |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| SCOTTS VALLEY SQUARE<br>Site ID: 0905125<br>EPA Id: CA0000565762 | 266 MOUNT HERMON ROA | NNE 0 - 1/8 (0.044 mi.) | C33 | 176 |
| SKY PARK ARPT LEACHF<br>Site ID: 0902229<br>EPA Id: CAD980893291 | MT HERMAN RD&KINGS V | E 1/8 - 1/4 (0.134 mi.) | F50 | 213 |
| ***KINGS CLEANERS***<br>Site ID: 0901496<br>EPA Id: CAD063548135 | ***222 MT HERMAN RD*** | ***E 1/8 - 1/4 (0.160 mi.)*** | ***F55*** | ***220*** |

***Federal RCRA generators list***

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 12/14/2020 has revealed that there are 2 RCRA-LQG sites within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***CVS PHARMACY #9862*** | ***257 MOUNT HERMON RD*** | ***NE 0 - 1/8 (0.013 mi.)*** | ***B9*** | ***58*** |

| | | | | |
|---|---|---|---|---|
| EPA ID:: CAR000231803 | | | | |
| CVS PHARMACY #9862<br>EPA ID:: CAL000357695 | 257 MOUNT HERMON RD | NE 0 - 1/8 (0.013 mi.) | B10 | 72 |

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 12/14/2020 has revealed that there are 6 RCRA-SQG sites within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| SCOTTS VALLEY CLEANE<br>EPA ID:: CAD982472847 | 272 "A" MT HERMON RO | NNE 0 - 1/8 (0.032 mi.) | C14 | 80 |
| SHAWS CLEANERS<br>EPA ID:: CAD981642929 | 245 G MT HERMON RD | NE 0 - 1/8 (0.088 mi.) | 43 | 201 |
| ***BAY PHOTO INC SCOTTS***<br>EPA ID:: CAD983628934 | ***235 MOUNT HERMON RD*** | ***E 0 - 1/8 (0.111 mi.)*** | ***F49*** | ***210*** |
| ***KINGS CLEANERS***<br>EPA ID:: CAD981633050 | ***222 MT HERMAN RD*** | ***E 1/8 - 1/4 (0.160 mi.)*** | ***F55*** | ***220*** |
| ***SCOTTS VALLEY GOODYE***<br>EPA ID:: CAD982370421 | ***231 MT HERMON RD*** | ***E 1/8 - 1/4 (0.173 mi.)*** | ***H68*** | ***248*** |
| ***C C COLOR LAB***<br>EPA ID:: CAD983633538 | ***218 MT HERMON RD UNI*** | ***E 1/8 - 1/4 (0.199 mi.)*** | ***H77*** | ***337*** |

RCRA-VSQG: 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.

A review of the RCRA-VSQG list, as provided by EDR, and dated 12/14/2020 has revealed that there are 3 RCRA-VSQG sites within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***SAFEWAY 300***<br>EPA ID:: CAR000243576 | ***253 MT HERMON RD*** | ***ENE 0 - 1/8 (0.035 mi.)*** | ***D15*** | ***83*** |
| ***KEYME INC***<br>EPA ID:: CAL000018531 | ***270 MT HERMON RD*** | ***NNE 0 - 1/8 (0.043 mi.)*** | ***C28*** | ***133*** |
| WALGREENS #6214<br>EPA ID:: CAL000323939 | 210 MOUNT HERMON RD | E 1/8 - 1/4 (0.188 mi.) | H72 | 269 |

***Federal institutional controls / engineering controls registries***

US ENG CONTROLS: A listing of sites with engineering controls in place.

A review of the US ENG CONTROLS list, as provided by EDR, and dated 10/28/2020 has revealed that there is 1 US ENG CONTROLS site within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***WATKINS-JOHNSON CO.***<br>EPA ID:: CAD980893234<br>EPA ID:: CAD980893234 | ***440 KINGS VILLAGE RD*** | ***NNE 1/4 - 1/2 (0.280 mi.)*** | ***0*** | ***21*** |

***State- and tribal - equivalent NPL***

RESPONSE: Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

A review of the RESPONSE list, as provided by EDR, has revealed that there is 1 RESPONSE site within approximately 1 mile of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***SKYPARK AIRPORT LEAC***<br>Database: RESPONSE, Date of Government Version: 01/25/2021<br>Status: No Further Action<br>Facility Id: 44490001 | ***MOUNT HERMAN & KING'*** | ***E 1/8 - 1/4 (0.166 mi.)*** | ***H62*** | ***235*** |

***State- and tribal - equivalent CERCLIS***

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 01/25/2021 has revealed that there are 8 ENVIROSTOR sites within approximately 1 mile of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| KAISER PIT<br>Facility Id: 44490002<br>Status: No Further Action | MOUNT HERMON ROAD | NW 1/8 - 1/4 (0.233 mi.) | 79 | 345 |
| ***SCOTTS VALLEY MIDDLE***<br>Facility Id: 60002315 | ***8 BEAN CREEK*** | ***E 1/4 - 1/2 (0.354 mi.)*** | ***M91*** | ***428*** |

Status: Active

| | | | | |
|---|---|---|---|---|
| ***SEAGATE TECHNOLOGY #*** | ***920 DISC DRIVE*** | ***E 1/2 - 1 (0.854 mi.)*** | ***99*** | ***484*** |
| Facility Id: 44360014 | | | | |
| Status: Refer: Other Agency | | | | |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| SKYPARK AIRPORT | 400 MT HERMAN ROAD | NNE 0 - 1/8 (0.016 mi.) | C12 | 77 |
| Facility Id: 44450002 | | | | |
| Status: Refer: RWQCB | | | | |
| SCOTTS VALLEY SQUARE | 272-A MOUNT HERMAN R | NNE 0 - 1/8 (0.043 mi.) | C21 | 108 |
| Facility Id: 44590001 | | | | |
| Status: Refer: RWQCB | | | | |
| FRANKS AUTO DISMANTL | 700 MOUNT HERMAN ROA | NNW 1/8 - 1/4 (0.149 mi.) | G51 | 215 |
| Facility Id: 44500005 | | | | |
| Status: Refer: Other Agency | | | | |
| ***SKYPARK AIRPORT LEAC*** | ***MOUNT HERMAN & KING'*** | ***E 1/8 - 1/4 (0.166 mi.)*** | ***H62*** | ***235*** |
| Facility Id: 44490001 | | | | |
| Status: No Further Action | | | | |
| ***440 KINGS VILLAGE RO*** | ***440 KINGS VILLAGE RO*** | ***NNE 1/4 - 1/2 (0.359 mi.)*** | ***N95*** | ***460*** |
| Facility Id: 44360011 | | | | |
| Status: Refer: EPA | | | | |

***State and tribal leaking storage tank lists***

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 14 LUST sites within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***SS#9-1337*** | ***200 MOUNT HERMON RD*** | ***E 1/8 - 1/4 (0.238 mi.)*** | ***I81*** | ***347*** |
| Database: LUST REG 3, Date of Government Version: 05/19/2003 | | | | |
| Database: LUST, Date of Government Version: 03/08/2021 | | | | |
| Status: Completed - Case Closed | | | | |
| Global Id: T0608700065 | | | | |
| Status: Post remedial action monitoring | | | | |
| Global ID: T0608700065 | | | | |
| ***SKYPARK AIRPORT PROP*** | ***400 KINGS VILLAGE RD*** | ***NE 1/4 - 1/2 (0.285 mi.)*** | ***J82*** | ***360*** |
| Database: LUST REG 3, Date of Government Version: 05/19/2003 | | | | |
| Database: LUST, Date of Government Version: 03/08/2021 | | | | |
| Status: Completed - Case Closed | | | | |
| Global Id: T0608700087 | | | | |
| Status: Case Closed | | | | |
| Global ID: T0608700087 | | | | |
| ***FORMER CITY HALL/CIT*** | ***370 KINGS VILLAGE RD*** | ***NE 1/4 - 1/2 (0.285 mi.)*** | ***J83*** | ***362*** |
| Database: LUST REG 3, Date of Government Version: 05/19/2003 | | | | |

Status: Leak being confirmed
Global ID: T0608700001

***MOBIL STATION #10-KD*** ***201 MOUNT HERMON RD*** ***ESE 1/4 - 1/2 (0.303 mi.)*** ***K84*** ***365***
Database: LUST REG 3, Date of Government Version: 05/19/2003
Status: Case Closed
Global ID: T0608700187

BP OIL FACILITY NO 1 201 MOUNT HERMON RD ESE 1/4 - 1/2 (0.303 mi.) K85 368
Database: LUST REG 3, Date of Government Version: 05/19/2003
Status: Remedial action (cleanup) Underway
Global ID: T0608700049

***MOBIL SERVICE STATIO*** ***201 MT HERMON RD*** ***ESE 1/4 - 1/2 (0.303 mi.)*** ***K86*** ***369***
Database: LUST, Date of Government Version: 03/08/2021
Status: Completed - Case Closed
Global Id: T10000001611

***BP #11239*** ***201 MOUNT HERMON RD*** ***ESE 1/4 - 1/2 (0.303 mi.)*** ***K87*** ***390***
Database: LUST, Date of Government Version: 03/08/2021
Status: Completed - Case Closed
Global Id: T0608700049
Global Id: T0608700187

***SCOTTS VALLEY MIDDLE*** ***8 BEAN CREEK*** ***E 1/4 - 1/2 (0.354 mi.)*** ***M91*** ***428***
Database: LUST, Date of Government Version: 03/08/2021
Status: Completed - Case Closed
Global Id: T0608700281

***SCOTTS VALLEY MIDDLE*** ***8 BEAN CREEK RD*** ***E 1/4 - 1/2 (0.354 mi.)*** ***M92*** ***433***
Database: LUST REG 3, Date of Government Version: 05/19/2003
Status: Case Closed
Global ID: T0608700281

***LARRYS SHELL*** ***90 MT HERMON RD*** ***ESE 1/4 - 1/2 (0.388 mi.)*** ***L96*** ***469***
Database: LUST REG 3, Date of Government Version: 05/19/2003
Status: Remedial action (cleanup) Underway
Global ID: T0608700282

***KERAKACIN ENTERPRISE*** ***90 MOUNT HERMON ROAD*** ***ESE 1/4 - 1/2 (0.388 mi.)*** ***L97*** ***472***
Database: LUST, Date of Government Version: 03/08/2021
Status: Completed - Case Closed
Global Id: T0608700282

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|

***COAST TO COAST HARDW*** ***218 MOUNT HERMON RD*** ***E 1/8 - 1/4 (0.170 mi.)*** ***H64*** ***238***
Database: LUST REG 3, Date of Government Version: 05/19/2003
Database: LUST, Date of Government Version: 03/08/2021
Status: Completed - Case Closed
Global Id: T0608700113
Status: Case Closed
Global ID: T0608700113

***TOSCO - FACILITY #61*** ***99 MOUNT HERMON RD*** ***ESE 1/4 - 1/2 (0.353 mi.)*** ***L88*** ***408***
Database: LUST REG 3, Date of Government Version: 05/19/2003
Status: Remedial action (cleanup) Underway
Global ID: T0608700248

***TOSCO - FACILITY #61*** ***99 MOUNT HERMON RD*** ***ESE 1/4 - 1/2 (0.353 mi.)*** ***L89*** ***413***
Database: LUST, Date of Government Version: 03/08/2021

Status: Completed - Case Closed
Global Id: T0608700248

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 6 CPS-SLIC sites within approximately 0.5 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***SCOTTS VALLEY DRY CL*** | ***272 MOUNT HERMON ROA*** | ***NNE 0 - 1/8 (0.043 mi.)*** | ***C22*** | ***110*** |
| Database: SLIC REG 3, Date of Government Version: 05/18/2006<br>Database: CPS-SLIC, Date of Government Version: 03/08/2021<br>Facility Status: Pollution Characterization<br>Facility Status: Open - Remediation<br>Global Id: SLT3S5621370 | | | | |
| ***ART DRY CLEANERS*** | ***245-G MOUNT HERMON R*** | ***ENE 0 - 1/8 (0.072 mi.)*** | ***D36*** | ***185*** |
| Database: SLIC REG 3, Date of Government Version: 05/18/2006<br>Database: CPS-SLIC, Date of Government Version: 03/08/2021<br>Facility Status: Leak Being Confirmed<br>Facility Status: Completed - Case Closed<br>Global Id: SL0608724127 | | | | |
| FORMER FRANK'S AUTO | 700 MT. HERMON RD | NNW 1/8 - 1/4 (0.149 mi.) | G52 | 216 |
| Database: CPS-SLIC, Date of Government Version: 03/08/2021<br>Facility Status: Open - Site Assessment<br>Global Id: T10000001590 | | | | |
| ***KING'S CLEANERS*** | ***222 MOUNT HERMON ROA*** | ***E 1/8 - 1/4 (0.160 mi.)*** | ***F56*** | ***224*** |
| Database: CPS-SLIC, Date of Government Version: 03/08/2021<br>Facility Status: Open - Verification Monitoring<br>Global Id: T10000000889 | | | | |
| ***440 KINGS VILLAGE RO*** | ***440 KINGS VILLAGE RO*** | ***NNE 1/4 - 1/2 (0.359 mi.)*** | ***N93*** | ***445*** |
| Database: CPS-SLIC, Date of Government Version: 03/08/2021<br>Facility Status: Open - Remediation<br>Global Id: SLT3S5581367 | | | | |
| ***WATKINS JOHNSON CO (*** | ***440 KINGS VILLAGE RO*** | ***NNE 1/4 - 1/2 (0.359 mi.)*** | ***N94*** | ***452*** |
| Database: SLIC REG 3, Date of Government Version: 05/18/2006<br>Facility Status: Remedial Action Plan Underway/Ongoing | | | | |

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Lists of Hazardous waste / Contaminated Sites***

HIST Cal-Sites: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

A review of the HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there

is 1 HIST Cal-Sites site within approximately 1 mile of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***WATKINS JOHNSON CO (*** | ***440 KINGS VILLAGE RO*** | ***NNE 1/4 - 1/2 (0.359 mi.)*** | ***N94*** | ***452*** |

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 01/20/2021 has revealed that there are 9 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***CVS PHARMACY # 9862*** | ***257 MOUNT HERMON RD*** | ***NE 0 - 1/8 (0.013 mi.)*** | ***B8*** | ***36*** |
| ***SAFEWAY STORE #300*** | ***253 MOUNT HERMON RD*** | ***ENE 0 - 1/8 (0.035 mi.)*** | ***D16*** | ***87*** |
| ***SCOTTS VALLEY CLEANE*** | ***272 MT HERMON RD #A*** | ***NNE 0 - 1/8 (0.043 mi.)*** | ***C30*** | ***137*** |
| ***DOLLAR TREE #03759*** | ***266 MOUNT HERMON RD*** | ***NNE 0 - 1/8 (0.044 mi.)*** | ***C31*** | ***141*** |
| ***ART CLEANERS*** | ***245 MOUNT HERMON RD*** | ***ENE 0 - 1/8 (0.072 mi.)*** | ***D34*** | ***178*** |
| ***O'REILLY AUTO PARTS*** | ***245 MOUNT HERMON RD*** | ***ENE 0 - 1/8 (0.072 mi.)*** | ***D37*** | ***186*** |
| ***NOB HILL # 620*** | ***222 MOUNT HERMON RD*** | ***E 1/8 - 1/4 (0.160 mi.)*** | ***F57*** | ***225*** |
| ***MR TIRE INC*** | ***231 MT HERMON RD*** | ***E 1/8 - 1/4 (0.173 mi.)*** | ***H71*** | ***254*** |
| ***WALGREENS #6214*** | ***210 MOUNT HERMON RD*** | ***E 1/8 - 1/4 (0.188 mi.)*** | ***H73*** | ***273*** |

***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 5 SWEEPS UST sites within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| WESCOSA/T.H. RAMSEY<br>Comp Number: 3 | 662 MOUNT HERMON RD | N 0 - 1/8 (0.096 mi.) | 44 | 203 |
| ***SPRING LAKES PARK***<br>Comp Number: 10913 | ***225 MOUNT HERMON RD*** | ***ESE 0 - 1/8 (0.110 mi.)*** | ***E47*** | ***208*** |
| FORMER FRANKS AUTO W<br>Comp Number: 1 | 700 MOUNT HERMON RD | NNW 1/8 - 1/4 (0.149 mi.) | G53 | 217 |
| ***COAST TO COAST HARDW***<br>Status: A<br>Tank Status: A<br>Comp Number: 46271 | ***218 MOUNT HERMON RD*** | ***E 1/8 - 1/4 (0.170 mi.)*** | ***H64*** | ***238*** |
| ***GOODYEAR SCOTTS VALL***<br>Comp Number: 100 | ***231 MT HERMON RD*** | ***E 1/8 - 1/4 (0.173 mi.)*** | ***H67*** | ***247*** |

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 4 HIST UST sites within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***SPRING LAKES PARK*** Facility Id: 00000010913 | ***225 MOUNT HERMON RD*** | ***ESE 0 - 1/8 (0.110 mi.)*** | ***E45*** | ***204*** |
| SPRING LAKES PARK | 225 MT HERMON RD | ESE 0 - 1/8 (0.110 mi.) | E46 | 208 |
| ***COAST TO COAST HARDW*** Facility Id: 00000046271 | ***218 MOUNT HERMON RD*** | ***E 1/8 - 1/4 (0.170 mi.)*** | ***H64*** | ***238*** |
| ***C C COLOR LAB*** | ***218 MT HERMON RD UNI*** | ***E 1/8 - 1/4 (0.199 mi.)*** | ***H77*** | ***337*** |

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 3 CA FID UST sites within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***SPRING LAKES PARK*** Facility Id: 44001540 Status: I | ***225 MOUNT HERMON RD*** | ***ESE 0 - 1/8 (0.110 mi.)*** | ***E47*** | ***208*** |
| COAST TO COAST HARDW Facility Id: 44000895 Status: A | 218 MOUNT HERMON RD | E 1/8 - 1/4 (0.170 mi.) | H63 | 238 |
| GOODYEAR SCOTTS VALL Facility Id: 44001323 Status: I | 231 MT HERMAN RD | E 1/8 - 1/4 (0.173 mi.) | H69 | 251 |

***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 12/14/2020 has revealed that there are 12 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| MIKE & FUZZY BARAJAS EPA ID:: CAC002991322 | 115 WHISPERING PINES | SSE 1/8 - 1/4 (0.190 mi.) | 74 | 327 |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| SCOTTS VALLEY CLEANE EPA ID:: CAL000017500 | 272 MOUNT HERMON RD | NNE 0 - 1/8 (0.043 mi.) | C20 | 105 |
| KEYME INC | 270 MT HERMON RD | NNE 0 - 1/8 (0.043 mi.) | C27 | 130 |

| | | | | |
|---|---|---|---|---|
| EPA ID:: CAL000442139 | | | | |
| DOLLAR TREE #03759<br>EPA ID:: CAL000379390 | 266 MOUNT HERMON RD | NNE 0 - 1/8 (0.044 mi.) | C32 | 174 |
| O'REILLY AUTO PARTS<br>EPA ID:: CAL000392498 | 245 MOUNT HERMON RD | ENE 0 - 1/8 (0.072 mi.) | D40 | 197 |
| CINELUX CINEMA<br>EPA ID:: CAC002972541 | 226 MOUNT HERMON ROA | E 1/8 - 1/4 (0.150 mi.) | F54 | 218 |
| NOB HILL #620<br>EPA ID:: CAL000197283 | 222 MT HERMAN RD | E 1/8 - 1/4 (0.160 mi.) | F60 | 233 |
| SCARBOROUGH ACE HARD<br>EPA ID:: CAL000275488 | 218 MT HERMON RD | E 1/8 - 1/4 (0.170 mi.) | H65 | 242 |
| SKIPS TIRE SCOTTS VA<br>EPA ID:: CAL000262538 | 231 MOUNT HERMON RD | E 1/8 - 1/4 (0.173 mi.) | H66 | 244 |
| TIRE CHOICE<br>EPA ID:: CAL000449232 | 231 MOUNT HERMON RD | E 1/8 - 1/4 (0.173 mi.) | H70 | 251 |
| GENUINE PARTS CO DBA<br>EPA ID:: CAL000420374 | 214 MOUNT HERMAN RD | E 1/8 - 1/4 (0.190 mi.) | H75 | 330 |
| DIGNITY HEALTH MEDIC<br>EPA ID:: CAL000451284 | 223A MT HERMAN ROAD | E 1/8 - 1/4 (0.209 mi.) | I78 | 343 |

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 12/30/2020 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***WATKINS-JOHNSON CO.***<br>EPA ID:: CAD980893234 | ***440 KINGS VILLAGE RD*** | ***NNE 1/4 - 1/2 (0.280 mi.)*** | ***0*** | ***21*** |

CONSENT: Major Legal settlements that establish responsibility and standards for cleanup at NPL (superfund) sites. Released periodically by U.S. District Courts after settlement by parties to litigation matters.

A review of the CONSENT list, as provided by EDR, and dated 12/31/2020 has revealed that there is 1 CONSENT site within approximately 1 mile of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***WATKINS-JOHNSON CO.*** | ***440 KINGS VILLAGE RD*** | ***NNE 1/4 - 1/2 (0.280 mi.)*** | ***0*** | ***21*** |

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 12/17/2020 has revealed that there are 11 Cortese sites within approximately 0.5 miles of the target property.

# EXECUTIVE SUMMARY

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***SS#9-1337*** | ***200 MOUNT HERMON RD*** | ***E 1/8 - 1/4 (0.238 mi.)*** | ***I81*** | ***347*** |
| Cleanup Status: COMPLETED - CASE CLOSED | | | | |
| ***SKYPARK AIRPORT PROP*** | ***400 KINGS VILLAGE RD*** | ***NE 1/4 - 1/2 (0.285 mi.)*** | ***J82*** | ***360*** |
| Cleanup Status: COMPLETED - CASE CLOSED | | | | |
| ***MOBIL STATION #10-KD*** | ***201 MOUNT HERMON RD*** | ***ESE 1/4 - 1/2 (0.303 mi.)*** | ***K84*** | ***365*** |
| Cleanup Status: COMPLETED - CASE CLOSED | | | | |
| ***MOBIL SERVICE STATIO*** | ***201 MT HERMON RD*** | ***ESE 1/4 - 1/2 (0.303 mi.)*** | ***K86*** | ***369*** |
| Cleanup Status: COMPLETED - CASE CLOSED | | | | |
| ***BP #11239*** | ***201 MOUNT HERMON RD*** | ***ESE 1/4 - 1/2 (0.303 mi.)*** | ***K87*** | ***390*** |
| Cleanup Status: COMPLETED - CASE CLOSED | | | | |
| ***SCOTTS VALLEY MIDDLE*** | ***8 BEAN CREEK RD*** | ***E 1/4 - 1/2 (0.354 mi.)*** | ***M92*** | ***433*** |
| Cleanup Status: COMPLETED - CASE CLOSED | | | | |
| ***LARRYS SHELL*** | ***90 MT HERMON RD*** | ***ESE 1/4 - 1/2 (0.388 mi.)*** | ***L96*** | ***469*** |
| Cleanup Status: COMPLETED - CASE CLOSED | | | | |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***272A MOUNT HERMON RD*** | ***272 MOUNT HERMON*** | ***NNE 0 - 1/8 (0.043 mi.)*** | ***C26*** | ***121*** |
| ***COAST TO COAST HARDW*** | ***218 MOUNT HERMON RD*** | ***E 1/8 - 1/4 (0.170 mi.)*** | ***H64*** | ***238*** |
| Cleanup Status: COMPLETED - CASE CLOSED | | | | |
| ***TOSCO - FACILITY #61*** | ***99 MOUNT HERMON RD*** | ***ESE 1/4 - 1/2 (0.353 mi.)*** | ***L88*** | ***408*** |
| Cleanup Status: COMPLETED - CASE CLOSED | | | | |
| ***440 KINGS VILLAGE RO*** | ***440 KINGS VILLAGE RO*** | ***NNE 1/4 - 1/2 (0.359 mi.)*** | ***N93*** | ***445*** |

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 13 CUPA Listings sites within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| CVS PHARMACY #9862 | 257 MOUNT HERMON RD | NE 0 - 1/8 (0.013 mi.) | B11 | 77 |
| Database: CUPA SANTA CRUZ, Date of Government Version: 01/21/2017 | | | | |
| Facility Id: FA0003134 | | | | |
| ***SAFEWAY STORE #300*** | ***253 MOUNT HERMON RD*** | ***ENE 0 - 1/8 (0.035 mi.)*** | ***D16*** | ***87*** |
| Database: CUPA SANTA CRUZ, Date of Government Version: 01/21/2017 | | | | |
| Facility Id: FA0007056 | | | | |
| 7-ELEVEN INC. STORE | 274 MOUNT HERMON RD | NNE 0 - 1/8 (0.040 mi.) | C17 | 105 |
| Database: CUPA SANTA CRUZ, Date of Government Version: 01/21/2017 | | | | |
| Facility Id: FA0007668 | | | | |
| SCOTTS VALLEY CLEANE | 272 MT HERMON RD | NNE 0 - 1/8 (0.043 mi.) | C24 | 119 |
| Database: CUPA SANTA CRUZ, Date of Government Version: 01/21/2017 | | | | |
| Facility Id: FA0002936 | | | | |
| KMART #9797 | 270 MOUNT HERMON RD | NNE 0 - 1/8 (0.043 mi.) | C29 | 136 |
| Database: CUPA SANTA CRUZ, Date of Government Version: 01/21/2017 | | | | |

Facility Id: FA0005729

***DOLLAR TREE #03759*** ***266 MOUNT HERMON RD*** ***NNE 0 - 1/8 (0.044 mi.)*** ***C31*** ***141***
Database: CUPA SANTA CRUZ, Date of Government Version: 01/21/2017
Facility Id: FA0007383

O'REILLY AUTO PARTS 245 MOUNT HERMON RD ENE 0 - 1/8 (0.072 mi.) D39 197
Database: CUPA SANTA CRUZ, Date of Government Version: 01/21/2017
Facility Id: FA0003262

***ART CLEANERS*** ***245 MOUNT HERMON RD*** ***ENE 0 - 1/8 (0.076 mi.)*** ***42*** ***200***
Database: CUPA SANTA CRUZ, Date of Government Version: 01/21/2017
Facility Id: FA0003093

***SPRING LAKES PARK*** ***225 MOUNT HERMON RD*** ***ESE 0 - 1/8 (0.110 mi.)*** ***E47*** ***208***
Database: CUPA SANTA CRUZ, Date of Government Version: 01/21/2017
Facility Id: FA0003078

NOB HILL # 620 222 MT. HERMON RD E 1/8 - 1/4 (0.160 mi.) F59 232
Database: CUPA SANTA CRUZ, Date of Government Version: 01/21/2017
Facility Id: FA0007066

***GOODYEAR SCOTTS VALL*** ***231 MT HERMON RD*** ***E 1/8 - 1/4 (0.173 mi.)*** ***H67*** ***247***
Database: CUPA SANTA CRUZ, Date of Government Version: 01/21/2017
Facility Id: FA0002935

***WALGREENS #6214*** ***210 MOUNT HERMON RD*** ***E 1/8 - 1/4 (0.188 mi.)*** ***H73*** ***273***
Database: CUPA SANTA CRUZ, Date of Government Version: 01/21/2017
Facility Id: FA0004157

***SCOTTS VALLEY WATER*** ***229 MT HERMON RD*** ***E 1/8 - 1/4 (0.195 mi.)*** ***H76*** ***332***
Database: CUPA SANTA CRUZ, Date of Government Version: 01/21/2017
Facility Id: FA0002938

DRYCLEANERS: A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, has revealed that there are 3 DRYCLEANERS sites within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***SCOTTS VALLEY CLEANE*** | ***272 MOUNT HERMON RD*** | ***NNE 0 - 1/8 (0.043 mi.)*** | ***C23*** | ***111*** |
| Database: DRYCLEANERS, Date of Government Version: 11/23/2020<br>EPA Id: CAL000017500<br>EPA Id: CAL000289208 | | | | |
| ***ART CLEANERS*** | ***245 MOUNT HERMON RD*** | ***ENE 0 - 1/8 (0.072 mi.)*** | ***D34*** | ***178*** |
| Database: DRYCLEANERS, Date of Government Version: 11/23/2020<br>EPA Id: CAL000139301<br>EPA Id: CAL000312240 | | | | |
| ***KING'S CLEANERS*** | ***222 MOUNT HERMON ROA*** | ***E 1/8 - 1/4 (0.160 mi.)*** | ***F56*** | ***224*** |
| Database: DRYCLEANERS, Date of Government Version: 11/23/2020<br>EPA Id: CAD981633050 | | | | |

# EXECUTIVE SUMMARY

HAZNET: The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000-1,000,000 annually, representing approximately 350,000-500,000 shipments. Data from non-California manifests & continuation sheets are not included at the present time. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, & disposal method. The source is the Department of Toxic Substance Control is the agency. This database begins with calendar year 1993.

A review of the HAZNET list, as provided by EDR, and dated 12/31/2019 has revealed that there is 1 HAZNET site within approximately 0.001 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***RICHARD CORONA***<br>GEPAID: CAC002833924 | ***307 LOCKEWOOD LN*** | ***0 - 1/8 (0.001 mi.)*** | ***7*** | ***35*** |

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 8 HIST CORTESE sites within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***SS#9-1337***<br>Reg Id: 2421 | ***200 MOUNT HERMON RD*** | ***E 1/8 - 1/4 (0.238 mi.)*** | ***I81*** | ***347*** |
| ***FORMER CITY HALL/CIT***<br>Reg Id: 1011 | ***370 KINGS VILLAGE RD*** | ***NE 1/4 - 1/2 (0.285 mi.)*** | ***J83*** | ***362*** |
| ***MOBIL SERVICE STATIO***<br>Reg Id: 2314 | ***201 MT HERMON RD*** | ***ESE 1/4 - 1/2 (0.303 mi.)*** | ***K86*** | ***369*** |
| ***SCOTTS VALLEY MIDDLE***<br>Reg Id: 742 | ***8 BEAN CREEK*** | ***E 1/4 - 1/2 (0.354 mi.)*** | ***M91*** | ***428*** |
| ***LARRYS SHELL***<br>Reg Id: 743 | ***90 MT HERMON RD*** | ***ESE 1/4 - 1/2 (0.388 mi.)*** | ***L96*** | ***469*** |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| SCOTTS VALLEY DRY CL<br>Reg Id: 3 440001N13 | 272 A MT HERMON | NNE 0 - 1/8 (0.040 mi.) | C18 | 105 |
| ***UNOCAL SERVICE STATI***<br>Reg Id: 618<br>Reg Id: 3 442039002 | ***99 MT HERMON RD*** | ***ESE 1/4 - 1/2 (0.353 mi.)*** | ***L90*** | ***424*** |
| ***440 KINGS VILLAGE RO***<br>Reg Id: 3 442000003<br>Reg Id: 44360011 | ***440 KINGS VILLAGE RO*** | ***NNE 1/4 - 1/2 (0.359 mi.)*** | ***N95*** | ***460*** |

Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the Notify 65 list, as provided by EDR, and dated 12/07/2020 has revealed that there are 2 Notify 65 sites within approximately 1 mile of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***SCOTTS VALLEY MIDDLE*** | ***8 BEAN CREEK*** | ***E 1/4 - 1/2 (0.354 mi.)*** | ***M91*** | ***428*** |
| SHELL OIL COMPANY | 90 MT. HERMON | ESE 1/4 - 1/2 (0.388 mi.) | L98 | 484 |

**EDR HIGH RISK HISTORICAL RECORDS**

***EDR Exclusive Records***

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 2 EDR Hist Auto sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| BONDS CAMP EVERS SER | 200 MT HERMAN RD | E 1/8 - 1/4 (0.238 mi.) | I80 | 347 |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| BOLLINGER CHEVRON | 225 MOUNT HERMON RD | ESE 0 - 1/8 (0.110 mi.) | E48 | 210 |

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there are 7 EDR Hist Cleaner sites within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| SCOTTS VALLEY CLEANE | 272 A & B MT HERMON | NNE 0 - 1/8 (0.043 mi.) | C19 | 105 |
| SCOTTS VALLEY CLEANE | 272 MOUNT HERMON RD | NNE 0 - 1/8 (0.043 mi.) | C25 | 120 |
| SUN KIM | 245 G MT HERMAN ROAD | ENE 0 - 1/8 (0.072 mi.) | D35 | 185 |
| DELIAS CLEANERS | 245 G MT HERMON | ENE 0 - 1/8 (0.072 mi.) | D38 | 197 |

# EXECUTIVE SUMMARY

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| DELIAS CLEANERS | 245 MOUNT HERMON RD | ENE 0 - 1/8 (0.072 mi.) | D41 | 200 |
| KINGS CLEANERS | 222 MT HERMAN RD | E 1/8 - 1/4 (0.160 mi.) | F58 | 232 |
| KINGS CLEANERS | 222 K MT HERMAN | E 1/8 - 1/4 (0.160 mi.) | F61 | 235 |

# EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 3 records.

| Site Name | Database(s) |
|---|---|
| SKY PARK ARPT | SEMS-ARCHIVE |
| SCOTTS VALLEY AREA | SEMS-ARCHIVE |
| MANANA WOODS WELL | CPS-SLIC |

# OVERVIEW MAP - 06469411.2R




- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

| | | | |
|---|---|---|---|
| SITE NAME: | Valley Gardens Golf Course | CLIENT: | Ramboll |
| ADDRESS: | 263 Mount Hermon Road<br>Scotts Valley CA 95066 | CONTACT: | Michael Gaffney |
| LAT/LONG: | 37.045219 / 122.033927 | INQUIRY #: | 06469411.2r |
| | | DATE: | April 28, 2021 9:48 am |

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# DETAIL MAP - 06469411.2R




Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

| | |
|---|---|
| SITE NAME: Valley Gardens Golf Course<br>ADDRESS: 263 Mount Hermon Road<br>Scotts Valley CA 95066<br>LAT/LONG: 37.045219 / 122.033927 | CLIENT: Ramboll<br>CONTACT: Michael Gaffney<br>INQUIRY #: 06469411.2r<br>DATE: April 28, 2021 9:50 am |

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# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| **STANDARD ENVIRONMENTAL RECORDS** | | | | | | | | |
| ***Federal NPL site list*** | | | | | | | | |
| NPL | 1.000 | | 0 | 0 | 1 | 0 | NR | 1 |
| Proposed NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| NPL LIENS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ***Federal Delisted NPL site list*** | | | | | | | | |
| Delisted NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Federal CERCLIS list*** | | | | | | | | |
| FEDERAL FACILITY | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| SEMS | 0.500 | | 0 | 0 | 1 | NR | NR | 1 |
| ***Federal CERCLIS NFRAP site list*** | | | | | | | | |
| SEMS-ARCHIVE | 0.500 | 1 | 2 | 2 | 1 | NR | NR | 6 |
| ***Federal RCRA CORRACTS facilities list*** | | | | | | | | |
| CORRACTS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Federal RCRA non-CORRACTS TSD facilities list*** | | | | | | | | |
| RCRA-TSDF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal RCRA generators list*** | | | | | | | | |
| RCRA-LQG | 0.250 | | 2 | 0 | NR | NR | NR | 2 |
| RCRA-SQG | 0.250 | | 3 | 3 | NR | NR | NR | 6 |
| RCRA-VSQG | 0.250 | | 2 | 1 | NR | NR | NR | 3 |
| ***Federal institutional controls / engineering controls registries*** | | | | | | | | |
| LUCIS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US ENG CONTROLS | 0.500 | | 0 | 0 | 1 | NR | NR | 1 |
| US INST CONTROLS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal ERNS list*** | | | | | | | | |
| ERNS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ***State- and tribal - equivalent NPL*** | | | | | | | | |
| RESPONSE | 1.000 | | 0 | 1 | 0 | 0 | NR | 1 |
| ***State- and tribal - equivalent CERCLIS*** | | | | | | | | |
| ENVIROSTOR | 1.000 | | 2 | 3 | 2 | 1 | NR | 8 |
| ***State and tribal landfill and/or solid waste disposal site lists*** | | | | | | | | |
| SWF/LF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***State and tribal leaking storage tank lists*** | | | | | | | | |
| LUST | 0.500 | | 0 | 2 | 12 | NR | NR | 14 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| INDIAN LUST | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| CPS-SLIC | 0.500 | | 2 | 2 | 2 | NR | NR | 6 |
| ***State and tribal registered storage tank lists*** | | | | | | | | |
| FEMA UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| AST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| INDIAN UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ***State and tribal voluntary cleanup sites*** | | | | | | | | |
| VCP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| INDIAN VCP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***State and tribal Brownfields sites*** | | | | | | | | |
| BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| **ADDITIONAL ENVIRONMENTAL RECORDS** | | | | | | | | |
| ***Local Brownfield lists*** | | | | | | | | |
| US BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Landfill / Solid Waste Disposal Sites*** | | | | | | | | |
| WMUDS/SWAT | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| SWRCY | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| HAULERS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| INDIAN ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| DEBRIS REGION 9 | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| IHS OPEN DUMPS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Hazardous waste / Contaminated Sites*** | | | | | | | | |
| US HIST CDL | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| HIST Cal-Sites | 1.000 | | 0 | 0 | 1 | 0 | NR | 1 |
| SCH | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| CDL | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| Toxic Pits | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| CERS HAZ WASTE | 0.250 | | 6 | 3 | NR | NR | NR | 9 |
| US CDL | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PFAS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Registered Storage Tanks*** | | | | | | | | |
| SWEEPS UST | 0.250 | | 2 | 3 | NR | NR | NR | 5 |
| HIST UST | 0.250 | | 2 | 2 | NR | NR | NR | 4 |
| CA FID UST | 0.250 | | 1 | 2 | NR | NR | NR | 3 |
| CERS TANKS | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ***Local Land Records*** | | | | | | | | |
| LIENS | 0.001 | | 0 | NR | NR | NR | NR | 0 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| LIENS 2 | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| DEED | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Records of Emergency Release Reports*** | | | | | | | | |
| HMIRS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| CHMIRS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| LDS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| MCS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| SPILLS 90 | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ***Other Ascertainable Records*** | | | | | | | | |
| RCRA NonGen / NLR | 0.250 | 1 | 4 | 8 | NR | NR | NR | 13 |
| FUDS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| DOD | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| SCRD DRYCLEANERS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US FIN ASSUR | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| EPA WATCH LIST | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| 2020 COR ACTION | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| TSCA | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| TRIS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| SSTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ROD | 1.000 | | 0 | 0 | 1 | 0 | NR | 1 |
| RMP | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| RAATS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PRP | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PADS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ICIS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| FTTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| MLTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| COAL ASH DOE | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| COAL ASH EPA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| PCB TRANSFORMER | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| RADINFO | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| HIST FTTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| DOT OPS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| CONSENT | 1.000 | | 0 | 0 | 1 | 0 | NR | 1 |
| INDIAN RESERV | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| FUSRAP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| UMTRA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| LEAD SMELTERS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| US AIRS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| US MINES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ABANDONED MINES | TP | | NR | NR | NR | NR | NR | 0 |
| FINDS | 0.001 | 2 | 0 | NR | NR | NR | NR | 2 |
| ECHO | TP | 1 | NR | NR | NR | NR | NR | 1 |
| DOCKET HWC | TP | | NR | NR | NR | NR | NR | 0 |
| UXO | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| FUELS PROGRAM | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| CA BOND EXP. PLAN | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| Cortese | 0.500 | | 1 | 2 | 8 | NR | NR | 11 |
| CUPA Listings | 0.250 | 1 | 9 | 4 | NR | NR | NR | 14 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| DRYCLEANERS | 0.250 | | 2 | 1 | NR | NR | NR | 3 |
| EMI | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ENF | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| Financial Assurance | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| HAZNET | 0.001 | 1 | 1 | NR | NR | NR | NR | 2 |
| ICE | TP | | NR | NR | NR | NR | NR | 0 |
| HIST CORTESE | 0.500 | | 1 | 1 | 6 | NR | NR | 8 |
| HWP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| HWT | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| MINES | TP | | NR | NR | NR | NR | NR | 0 |
| MWMP | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| NPDES | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PEST LIC | TP | | NR | NR | NR | NR | NR | 0 |
| PROC | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| Notify 65 | 1.000 | | 0 | 0 | 2 | 0 | NR | 2 |
| UIC | 0.001 | | 0 | 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 | 0.001 | | 0 | 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 | 1 | NR | NR | NR | NR | NR | 1 |
| 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 |
| WELL STIM PROJ | TP | | NR | NR | NR | NR | NR | 0 |
| HWTS | TP | 1 | NR | NR | NR | NR | NR | 1 |
| MINES MRDS | TP | | NR | NR | NR | NR | NR | 0 |
| **EDR HIGH RISK HISTORICAL RECORDS** | | | | | | | | |
| ***EDR Exclusive Records*** | | | | | | | | |
| EDR MGP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| EDR Hist Auto | 0.250 | | 1 | 1 | NR | NR | NR | 2 |
| EDR Hist Cleaner | 0.250 | | 5 | 2 | NR | NR | NR | 7 |
| **EDR RECOVERED GOVERNMENT ARCHIVES** | | | | | | | | |
| ***Exclusive Recovered Govt. Archives*** | | | | | | | | |
| RGA LF | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| RGA LUST | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| - Totals -- | | 9 | 48 | 43 | 39 | 1 | 0 | 140 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

**A1** **VALLEY GARDENS GOLF COURSE** **HAZNET** **S112911239**
**Target** **475 LOCKWOOD LN** **HWTS** **N/A**
**Property** **SCOTTS VALLEY, CA 95066**

**Site 1 of 6 in cluster A**

**Actual:**
**520 ft.**

HAZNET:

| | |
|---|---|
| Name: | VALLEY GARDENS GOLF COURSE |
| Address: | 475 LOCKWOOD LN |
| Address 2: | Not reported |
| City,State,Zip: | SCOTTS VALLEY, CA 950660000 |
| Contact: | STEVE WOODRUFF- SUPERINENTED |
| Telephone: | 8314383058 |
| Mailing Name: | Not reported |
| Mailing Address: | 263 MOUNT HERMON RD |
| Year: | 2002 |
| Gepaid: | CAC002311673 |
| TSD EPA ID: | CAD088838222 |
| CA Waste Code: | 135 - Unspecified aqueous solution |
| Disposal Method: | R01 - Recycler |
| Tons: | 0.231 |
| Year: | 2002 |
| Gepaid: | CAC002311673 |
| TSD EPA ID: | CAT080013352 |
| CA Waste Code: | 214 - Unspecified solvent mixture |
| Disposal Method: | R01 - Recycler |
| Tons: | 0.198 |

Additional Info:

| | |
|---|---|
| Year: | 2002 |
| Gen EPA ID: | CAC002311673 |
| Shipment Date: | 20020204 |
| Creation Date: | 7/17/2002 18:32:08 |
| Receipt Date: | 20020227 |
| Manifest ID: | 21422305 |
| Trans EPA ID: | CAD088838222 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | CAR000003707 |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.198 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**VALLEY GARDENS GOLF COURSE (Continued)** **S112911239**

| | |
|---|---|
| Shipment Date: | 20020116 |
| Creation Date: | 2/4/2003 14:36:32 |
| Receipt Date: | 20020116 |
| Manifest ID: | 21422277 |
| Trans EPA ID: | CAD088838222 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD088838222 |
| 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: | R01 - Recycler |
| 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 |

HWTS:

| | |
|---|---|
| Name: | VALLEY GARDENS GOLF COURSE |
| Address: | 475 LOCKWOOD LN |
| Address 2: | Not reported |
| City,State,Zip: | SCOTTS VALLEY, CA 950660000 |
| EPA ID: | CAC002311673 |
| Inactive Date: | 09/10/2002 |
| Create Date: | 01/16/2002 |
| Last Act Date: | 01/16/2002 |
| Mailing Name: | Not reported |
| Mailing Address: | 263 MOUNT HERMON RD |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | SCOTTS VALLEY, CA 950660000 |
| Owner Name: | SANDY WOODRUFF |
| Owner Address: | 263 MOUNT HERMON RD |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | SCOTTS VALLEY, CA 950660000 |
| Contact Name: | STEVE WOODRUFF- SUPERINENTED |
| Contact Address: | 263 MOUNT HERMON RD |
| Contact Address 2: | Not reported |
| City,State,Zip: | SCOTTS VALLEY, CA 950660000 |

| | |
|---|---|
| Name: | SANDY WOODRUFF |
| Address: | 475 LOCKWOOD LANE |
| Address 2: | Not reported |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| EPA ID: | CAC003073639 |
| Inactive Date: | 10/04/2020 |
| Create Date: | 07/06/2020 |
| Last Act Date: | 07/06/2020 |
| Mailing Name: | Not reported |
| Mailing Address: | 263 MT. HERMON RD. |
| Mailing Address 2: | SANDWOOD9@SBCGLOBAL.NET |

**VALLEY GARDENS GOLF COURSE (Continued)** **S112911239**

Mailing City,State,Zip: SCOTTS VALLEY, CA 95066
Owner Name: SANDY WOODRUFF
Owner Address: 61 PASATIEMPO DRIVE
Owner Address 2: Not reported
Owner City,State,Zip: SANTA CRUZ, CA 95060
Contact Name: SANDY WOODRUFF
Contact Address: 475 LOCKWOOD LANE
Contact Address 2: Not reported
City,State,Zip: SCOTTS VALLEY, CA 95066

NAICS:
EPA ID: CAC003073639
Create Date: 2020-07-06 17:28:43.033
NAICS Code: 56173
NAICS Description: Landscaping Services
Issued EPA ID Date: 2020-07-06 17:28:43.03300
Inactive Date: 2020-10-04 17:28:43.03300
Facility Name: SANDY WOODRUFF
Facility Address: 475 LOCKWOOD LANE
Facility Address 2: Not reported
Facility City: SCOTTS VALLEY
Facility County: Not reported
Facility State: CA
Facility Zip: 95066

---

**A2** **VALLEY GARDENS GOLF COURSE** **CUPA Listings** **S110743221**
**Target** **263 MT HERMON RD** **CERS** **N/A**
**Property** **SCOTTS VALLEY, CA 95066**

**Site 2 of 6 in cluster A**

**Actual: 520 ft.**

CUPA SANTA CRUZ:
Name: VALLEY GARDENS GOLF COURSE
Address: 263 MT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0003477
Cross Street: LOCKWOOD LN
Description: HMMP STANDARD FORM QR 2

Name: VALLEY GARDENS GOLF COURSE
Address: 263 MT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0003477
Cross Street: LOCKWOOD LN
Description: HMMP STANDARD FORM FILING FEE

CERS:
Name: VALLEY GARDENS GOLF COURSE
Address: 263 MT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Site ID: 165650
CERS ID: 10193269
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 165650
Site Name: VALLEY GARDENS GOLF COURSE

**VALLEY GARDENS GOLF COURSE (Continued)** **S110743221**

| | |
|---|---|
| Violation Date: | 07-18-2016 |
| Citation: | HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date. |
| Violation Notes: | Returned to compliance on 08/07/2017. Last review and submittal of the business plan is recorded to have occurred 11/13/14. Review the business plan, update as necessary and resubmit in CERS. Review and resubmittal is required annually. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HMRRP |
| Violation Source: | CERS |
| | |
| Site ID: | 165650 |
| Site Name: | VALLEY GARDENS GOLF COURSE |
| Violation Date: | 09-03-2013 |
| Citation: | 19 CCR 4 2729.5 - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.5 |
| Violation Description: | Failure to submit inventory reports (Activities, Owner/Operator, Hazardous Materials Descriptions and Map pages, if required. Documentation must be resubmitted (for facilities which exceed EPCRA thresholds) or re-certified (for facilities which do not exceed EPCRA thresholds) by March 1. |
| Violation Notes: | Returned to compliance on 06/18/2014. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HMRRP |
| Violation Source: | CERS |

Evaluation:

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 07-16-2015 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 07-18-2016 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Inspection authorized by Steve Woodruff, Golf Course Superintendent. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 07-22-2013 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

**VALLEY GARDENS GOLF COURSE (Continued)** **S110743221**

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 07-24-2013 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 07-25-2014 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 07-29-2013 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 08-02-2013 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 08-07-2017 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 08-16-2018 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Inspection authorized by Steve Woodruff, Golf Course Superintendent. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 09-03-2013 |
| Violations Found: | No |

**VALLEY GARDENS GOLF COURSE (Continued)** **S110743221**

Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-03-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-26-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Ms. Sandy Woodruff, Owner. The facility has discontinued operations as a golf course but still has hazardous chemical storage. Continue to maintain an active hazardous materials permit or go through the closure process discussed.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 165650
Site Name: VALLEY GARDENS GOLF COURSE
Site Address: 263 MT HERMON RD
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 07-18-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 165650
Site Name: VALLEY GARDENS GOLF COURSE
Site Address: 263 MT HERMON RD
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 09-03-2013
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 Cruz County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:
Site ID: 165650

**VALLEY GARDENS GOLF COURSE (Continued)** **S110743221**

Facility Name: VALLEY GARDENS GOLF COURSE
Env Int Type Code: HMBP
Program ID: 10193269
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 37.044758
Longitude: -122.034294

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Santa Cruz County Environmental Health
Entity Title: Not reported
Affiliation Address: 701 Ocean Boulevard, Suite 312
Affiliation City: Santa Cruz
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95060
Affiliation Phone: (831) 454-2022

Affiliation Type Desc: Identification Signer
Entity Name: STEVE WOODRUFF
Entity Title: GOLF COURSE SUPERINTENDENT
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: SANDY WOODRUFF
Entity Title: Not reported
Affiliation Address: 263 MT HERMON RD
Affiliation City: SCOTTS VALLEY
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95066
Affiliation Phone: (831) 438-3058

Affiliation Type Desc: Operator
Entity Name: SANDY WOODRUFF
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: (831) 438-5630

Affiliation Type Desc: Parent Corporation
Entity Name: VALLEY GARDENS GOLF COURSE
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported

**VALLEY GARDENS GOLF COURSE (Continued)** **S110743221**

Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: STEVE WOODRUFF
Entity Title: Not reported
Affiliation Address: 10 Siri Lane
Affiliation City: SCOTTS VALLEY
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95066
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 263 MT HERMON RD
Affiliation City: SCOTTS VALLEY
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95066
Affiliation Phone: Not reported

Affiliation Type Desc: Document Preparer
Entity Name: STEVE WOODRUFF
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

---

**A3** **SANDY WOODRUFF** **FINDS 1026559327**
**Target** **475 LOCKWOOD LANE** **ECHO N/A**
**Property** **SCOTTS VALLEY, CA 95066**

**Site 3 of 6 in cluster A**

**Actual:**
**520 ft.**

FINDS:
Registry ID: 110070860335

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1026559327
Registry ID: 110070860335
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110070860335

**SANDY WOODRUFF (Continued)** **1026559327**

Name: SANDY WOODRUFF
Address: 475 LOCKWOOD LANE
City,State,Zip: SCOTTS VALLEY, CA 95066

---

**A4** **SANDY WOODRUFF** **RCRA NonGen / NLR** **1026468236**
**Target** **475 LOCKWOOD LANE** **CAC003073639**
**Property** **SCOTTS VALLEY, CA 95066**

**Site 4 of 6 in cluster A**

**Actual:** **520 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 2020-07-06 00:00:00.0 |
| Handler Name: | SANDY WOODRUFF | |
| Handler Address: | | 475 LOCKWOOD LANE |
| Handler City,State,Zip: | | SCOTTS VALLEY, CA 95066 |
| EPA ID: | | CAC003073639 |
| Contact Name: | | SANDY WOODRUFF |
| Contact Address: | | 475 LOCKWOOD LANE |
| Contact City,State,Zip: | | SCOTTS VALLEY, CA 95066 |
| Contact Telephone: | | 831-425-5939 |
| Contact Fax: | | Not reported |
| Contact Email: | | SANDWOOD9@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: | | 263 MT. HERMON RD. |
| Mailing City,State,Zip: | | SCOTTS VALLEY, CA 95066 |
| Owner Name: | | SANDY WOODRUFF |
| Owner Type: | | Other |
| Operator Name: | | SANDY WOODRUFF |
| Operator Type: | | Other |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |
| Underground Injection Control: | | No |
| Off-Site Waste Receipt: | | No |
| Universal Waste Indicator: | | No |
| Universal Waste Destination Facility: | | No |
| Federal Universal Waste: | | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Handler: | | --- |
| Federal Facility Indicator: | | Not reported |
| Hazardous Secondary Material Indicator: | | N |
| Sub-Part K Indicator: | | Not reported |

**SANDY WOODRUFF (Continued)** **1026468236**

| | |
|---|---|
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2020-07-10 18:45:08.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | SANDY WOODRUFF |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 475 LOCKWOOD LANE |
| Owner/Operator City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Owner/Operator Telephone: | 831-425-5939 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | SANDY WOODRUFF |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 61 PASATIEMPO DRIVE |
| Owner/Operator City,State,Zip: | SANTA CRUZ, CA 95060 |

**SANDY WOODRUFF (Continued)** **1026468236**

Owner/Operator Telephone: 831-425-5939
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2020-07-06 00:00:00.0
Handler Name: SANDY WOODRUFF
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: 56173
NAICS Description: LANDSCAPING SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

---

**A5** **VALLEY GARDENS GOLF COURSE** **SEMS-ARCHIVE** **1003878364**
**Target** **263 MT HERMAN RD** **CAD069127470**
**Property** **SCOTTS VALLEY, CA 95066**

**Site 5 of 6 in cluster A**

**Actual: 520 ft.**

SEMS Archive:
Site ID: 0901542
EPA ID: CAD069127470
Name: VALLEY GARDENS GOLF COURSE
Address: 263 MT HERMAN RD
Address 2: Not reported
City,State,Zip: SCOTTS VALLEY, CA 95066
Cong District: 16
FIPS Code: 06087
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: 0901542
EPA ID: CAD069127470
Site Name: VALLEY GARDENS GOLF COURSE
NPL: N
FF: N

**VALLEY GARDENS GOLF COURSE (Continued)** **1003878364**

| | |
|---|---|
| OU: | 00 |
| Action Code: | VS |
| Action Name: | ARCH SITE |
| SEQ: | 1 |
| Start Date: | Not reported |
| Finish Date: | 1991-10-25 04:00:00 |
| Qual: | Not reported |
| Current Action Lead: | EPA Perf In-Hse |
| | |
| Region: | 09 |
| Site ID: | 0901542 |
| EPA ID: | CAD069127470 |
| Site Name: | VALLEY GARDENS GOLF COURSE |
| NPL: | N |
| FF: | N |
| OU: | 00 |
| Action Code: | PA |
| Action Name: | PA |
| SEQ: | 1 |
| Start Date: | Not reported |
| Finish Date: | 1985-10-01 05:00:00 |
| Qual: | L |
| Current Action Lead: | EPA Perf |
| | |
| Region: | 09 |
| Site ID: | 0901542 |
| EPA ID: | CAD069127470 |
| Site Name: | VALLEY GARDENS GOLF COURSE |
| NPL: | N |
| FF: | N |
| OU: | 00 |
| Action Code: | SI |
| Action Name: | SI |
| SEQ: | 2 |
| Start Date: | Not reported |
| Finish Date: | 1991-10-25 04:00:00 |
| Qual: | N |
| Current Action Lead: | EPA Perf |
| | |
| Region: | 09 |
| Site ID: | 0901542 |
| EPA ID: | CAD069127470 |
| Site Name: | VALLEY GARDENS GOLF COURSE |
| NPL: | N |
| FF: | N |
| OU: | 00 |
| Action Code: | DS |
| Action Name: | DISCVRY |
| SEQ: | 1 |
| Start Date: | 1985-07-01 05:00:00 |
| Finish Date: | 1985-07-01 05:00:00 |
| Qual: | Not reported |
| Current Action Lead: | EPA Perf |
| | |
| Region: | 09 |
| Site ID: | 0901542 |
| EPA ID: | CAD069127470 |

**VALLEY GARDENS GOLF COURSE (Continued)** **1003878364**

| | |
|---|---|
| Site Name: | VALLEY GARDENS GOLF COURSE |
| NPL: | N |
| FF: | N |
| OU: | 00 |
| Action Code: | SI |
| Action Name: | SI |
| SEQ: | 1 |
| Start Date: | Not reported |
| Finish Date: | 1989-12-07 05:00:00 |
| Qual: | H |
| Current Action Lead: | EPA Perf |
| | |
| Region: | 09 |
| Site ID: | 0901542 |
| EPA ID: | CAD069127470 |
| Site Name: | VALLEY GARDENS GOLF COURSE |
| NPL: | N |
| FF: | N |
| OU: | 00 |
| Action Code: | SI |
| Action Name: | SI |
| SEQ: | 3 |
| Start Date: | 1985-10-01 05:00:00 |
| Finish Date: | 1985-10-01 05:00:00 |
| Qual: | H |
| Current Action Lead: | EPA Perf |

---

**A6** **VALLEY GARDENS GOLF COURSE** **FINDS** **1023339291**
**Target** **263 MT HERMON RD** **N/A**
**Property** **SCOTTS VALLEY, CA 95066**

**Site 6 of 6 in cluster A**

**Actual:**
**520 ft.**

FINDS:
Registry ID: 110066346485

Click Here:

Environmental Interest/Information System:
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

---

**NPL** **WATKINS-JOHNSON CO. (STEWART DIVISION PLANT)** **NPL** **1000270970**
**Region** **440 KINGS VILLAGE RD** **SEMS** **CAD980893234**
**NNE** **SCOTTS VALLEY, CA 95066** **US ENG CONTROLS**
**1/4-1/2** **ROD**
**1476 ft.** **PRP**
**CONSENT**

NPL:

| | |
|---|---|
| EPA Region: | 9 |
| EPA ID: | CAD980893234 |
| Site ID: | 902226 |
| Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| Address: | 440 KINGS VILLAGE RD |

**WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) (Continued)** **1000270970**

City,State,Zip: SCOTTS VALLEY, CA 95066
Federal: N
Final Date: 1990-08-30 00:00:00
Latitude: 37.051111
Longitude: -122.029028
Site Score: 28.899999999999999

NPL:
NPL Status: Currently on the Final NPL
Substance ID: Not reported
CAS Number: Not reported
Substance: Not reported
Pathway: Not reported
Scoring: Not reported

NPL Status: Currently on the Final NPL
Substance ID: C321
CAS Number: 25323-89-1
Substance: TRICHLOROETHANE
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: C349
CAS Number: 1300-21-6
Substance: DICHLOROETHANE
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U210
CAS Number: 127-18-4
Substance: TETRACHLOROETHENE
Pathway: GROUND WATER PATHWAY
Scoring: 4

NPL Status: Currently on the Final NPL
Substance ID: U228
CAS Number: 79-01-6
Substance: TRICHLOROETHYLENE (TCE)
Pathway: GROUND WATER PATHWAY
Scoring: 2

Summary Details:

Conditions at proposal January 22, 1987): The Watkins-Johnson Co. Stewart Division Plant) has manufactured industrial furnaces and electrical parts since 1965 on a 3-acre site in Scotts Valley, Santa Cru County, California. The CaliforniaRegional Water Quality Control Board CRWQCB) and Watkins-Johnson s consultant have detected organic chemicals, including trichloroethylene, trichloroethane, tetrachloroethylene, dichloroethylene, and Freon in soil and ground water on the site.The contamination is apparently the result of improper handling of ha ardous waste. Early in July 1986, CRWQCB issued Waste Discharge Requirements to the company. The requirements are the CRWQCB s legal mechanism for regulating activitiesat facilities under its jurisdiction. Later in July, CRWQCB issued a Cleanup and Abatement Order to the company. In response, Watkins-Johnson has begun an interim program to pump and treat contaminated ground water. Wells within 3 milesof the

**WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) (Continued)** **1000270970**

site draw on the Santa Margarita Aquifer, designated by EPA as a sole source of drinking water in the area. An estimated 12,000 people use the wells. Status August 30, 1990): On September 21, 1987, Watkins-Johnson and EPA signedan Administrative Order on Consent under which the company has conducted a remedial investigation/feasibility study RI/FS) to determine the type and extent of contamination at the site and identify alternatives for remedial action. Watkins-Johnson submitted the final RI report in April 1989 and the final FS report in November 1989. The remedy is scheduled to be completed in the summer of 1990.

NPL:
NPL Status: Currently on the Final NPL
Category Description: Depth To Aquifer-> 10 And <= 25 Feet
Category Value: 18

NPL Status: Currently on the Final NPL
Category Description: Distance To Nearest Population-> 0 And <= 1/4 Mile
Category Value: 10

NPL:
NPL Name: WATKINS-JOHNSON CO. (STEWART DIVISION PLANT)

NPL:
EPA Region: 09
Site ID: 0902226
Site Status: F
Federal Site: N
Date Deleted: Not reported
Date Finalized: 08/30/90
Date Proposed: 01/22/87

NPL:
Proposed Date: 01/22/1987
Final Date: 08/30/1990
Deleted Date: Not reported
NPL Status: Final

SEMS:
Site ID: 0902226
EPA ID: CAD980893234
Name: WATKINS-JOHNSON CO. (STEWART DIVISION PLANT)
Address: 440 KINGS VILLAGE RD
Address 2: Not reported
City,State,Zip: SCOTTS VALLEY, CA 95066
Cong District: 15,18
FIPS Code: 06087
Latitude: 37.051111
Longitude: -122.029028
FF: N
NPL: Currently on the Final NPL
Non NPL Status: Not reported

SEMS Detail:
Region: 09

**WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) (Continued)** **1000270970**

| | |
|---|---|
| Site ID: | 0902226 |
| EPA ID: | CAD980893234 |
| Site Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| NPL: | F |
| FF: | N |
| OU: | 00 |
| Action Code: | NF |
| Action Name: | NPL FINL |
| SEQ: | 1 |
| Start Date: | 1990-08-30 04:00:00 |
| Finish Date: | 8/30/1990 4:00:00 AM |
| Qual: | Not reported |
| Current Action Lead: | EPA Perf |

| | |
|---|---|
| Region: | 09 |
| Site ID: | 0902226 |
| EPA ID: | CAD980893234 |
| Site Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| NPL: | F |
| FF: | N |
| OU: | 00 |
| Action Code: | FE |
| Action Name: | 5 YEAR |
| SEQ: | 2 |
| Start Date: | 2007-09-26 04:00:00 |
| Finish Date: | 9/26/2007 4:00:00 AM |
| Qual: | Not reported |
| Current Action Lead: | EPA Perf |

| | |
|---|---|
| Region: | 09 |
| Site ID: | 0902226 |
| EPA ID: | CAD980893234 |
| Site Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| NPL: | F |
| FF: | N |
| OU: | 00 |
| Action Code: | TA |
| Action Name: | TECH ASSIST |
| SEQ: | 1 |
| Start Date: | 2011-03-22 04:00:00 |
| Finish Date: | 3/22/2011 4:00:00 AM |
| Qual: | Not reported |
| Current Action Lead: | EPA Perf |

| | |
|---|---|
| Region: | 09 |
| Site ID: | 0902226 |
| EPA ID: | CAD980893234 |
| Site Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| NPL: | F |
| FF: | N |
| OU: | 00 |
| Action Code: | FE |
| Action Name: | 5 YEAR |
| SEQ: | 3 |
| Start Date: | 2012-09-27 05:00:00 |
| Finish Date: | 9/27/2012 5:00:00 AM |
| Qual: | Not reported |

**WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) (Continued)** **1000270970**

| | |
|---|---|
| Current Action Lead: | EPA Perf |
| | |
| Region: | 09 |
| Site ID: | 0902226 |
| EPA ID: | CAD980893234 |
| Site Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| NPL: | F |
| FF: | N |
| OU: | 00 |
| Action Code: | CM |
| Action Name: | PCOR |
| SEQ: | 1 |
| Start Date: | 1994-09-22 04:00:00 |
| Finish Date: | 9/22/1994 4:00:00 AM |
| Qual: | Not reported |
| Current Action Lead: | EPA Perf |
| | |
| Region: | 09 |
| Site ID: | 0902226 |
| EPA ID: | CAD980893234 |
| Site Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| NPL: | F |
| FF: | N |
| OU: | 00 |
| Action Code: | SI |
| Action Name: | SI |
| SEQ: | 1 |
| Start Date: | 1986-05-01 04:00:00 |
| Finish Date: | 5/1/1986 4:00:00 AM |
| Qual: | H |
| Current Action Lead: | EPA Perf |
| | |
| Region: | 09 |
| Site ID: | 0902226 |
| EPA ID: | CAD980893234 |
| Site Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| NPL: | F |
| FF: | N |
| OU: | 00 |
| Action Code: | FE |
| Action Name: | 5 YEAR |
| SEQ: | 4 |
| Start Date: | 2016-11-22 05:00:00 |
| Finish Date: | 9/27/2017 5:00:00 AM |
| Qual: | Not reported |
| Current Action Lead: | EPA Perf |
| | |
| Region: | 09 |
| Site ID: | 0902226 |
| EPA ID: | CAD980893234 |
| Site Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| NPL: | F |
| FF: | N |
| OU: | 00 |
| Action Code: | DS |
| Action Name: | DISCVRY |
| SEQ: | 1 |

**WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) (Continued)** **1000270970**

| | |
|---|---|
| Start Date: | 1985-07-01 05:00:00 |
| Finish Date: | 7/1/1985 5:00:00 AM |
| Qual: | Not reported |
| Current Action Lead: | EPA Perf |
| | |
| Region: | 09 |
| Site ID: | 0902226 |
| EPA ID: | CAD980893234 |
| Site Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| NPL: | F |
| FF: | N |
| OU: | 00 |
| Action Code: | PA |
| Action Name: | PA |
| SEQ: | 1 |
| Start Date: | 1985-10-01 05:00:00 |
| Finish Date: | 10/1/1985 5:00:00 AM |
| Qual: | H |
| Current Action Lead: | EPA Perf |
| | |
| Region: | 09 |
| Site ID: | 0902226 |
| EPA ID: | CAD980893234 |
| Site Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| NPL: | F |
| FF: | N |
| OU: | 00 |
| Action Code: | CR |
| Action Name: | CI |
| SEQ: | 1 |
| Start Date: | 1987-03-31 05:00:00 |
| Finish Date: | Not reported |
| Qual: | Not reported |
| Current Action Lead: | EPA Perf |
| | |
| Region: | 09 |
| Site ID: | 0902226 |
| EPA ID: | CAD980893234 |
| Site Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| NPL: | F |
| FF: | N |
| OU: | 01 |
| Action Code: | RO |
| Action Name: | ROD |
| SEQ: | 1 |
| Start Date: | 1990-06-29 04:00:00 |
| Finish Date: | 6/29/1990 4:00:00 AM |
| Qual: | R |
| Current Action Lead: | EPA Perf |
| | |
| Region: | 09 |
| Site ID: | 0902226 |
| EPA ID: | CAD980893234 |
| Site Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| NPL: | F |
| FF: | N |
| OU: | 00 |

**WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) (Continued)** **1000270970**

| | |
|---|---|
| Action Code: | RS |
| Action Name: | RV ASSESS |
| SEQ: | 2 |
| Start Date: | 1990-07-16 04:00:00 |
| Finish Date: | 7/16/1990 4:00:00 AM |
| Qual: | Not reported |
| Current Action Lead: | EPA Perf |
| | |
| Region: | 09 |
| Site ID: | 0902226 |
| EPA ID: | CAD980893234 |
| Site Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| NPL: | F |
| FF: | N |
| OU: | 00 |
| Action Code: | FE |
| Action Name: | 5 YEAR |
| SEQ: | 1 |
| Start Date: | 2002-03-04 05:00:00 |
| Finish Date: | 9/27/2002 4:00:00 AM |
| Qual: | Not reported |
| Current Action Lead: | EPA Perf |
| | |
| Region: | 09 |
| Site ID: | 0902226 |
| EPA ID: | CAD980893234 |
| Site Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| NPL: | F |
| FF: | N |
| OU: | 00 |
| Action Code: | MA |
| Action Name: | ST COOP |
| SEQ: | 1 |
| Start Date: | 1989-04-30 04:00:00 |
| Finish Date: | 6/30/1989 4:00:00 AM |
| Qual: | Not reported |
| Current Action Lead: | EPA Perf |
| | |
| Region: | 09 |
| Site ID: | 0902226 |
| EPA ID: | CAD980893234 |
| Site Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| NPL: | F |
| FF: | N |
| OU: | 00 |
| Action Code: | NP |
| Action Name: | PROPOSED |
| SEQ: | 1 |
| Start Date: | 1987-01-22 05:00:00 |
| Finish Date: | 1/22/1987 5:00:00 AM |
| Qual: | Not reported |
| Current Action Lead: | EPA Perf |
| | |
| Region: | 09 |
| Site ID: | 0902226 |
| EPA ID: | CAD980893234 |
| Site Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |

**WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) (Continued)** **1000270970**

| | |
|---|---|
| NPL: | F |
| FF: | N |
| OU: | 00 |
| Action Code: | HR |
| Action Name: | HAZRANK |
| SEQ: | 1 |
| Start Date: | 1987-01-22 05:00:00 |
| Finish Date: | 1/22/1987 5:00:00 AM |
| Qual: | Not reported |
| Current Action Lead: | EPA Perf |
| | |
| Region: | 09 |
| Site ID: | 0902226 |
| EPA ID: | CAD980893234 |
| Site Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| NPL: | F |
| FF: | N |
| OU: | 00 |
| Action Code: | RS |
| Action Name: | RV ASSESS |
| SEQ: | 1 |
| Start Date: | 1992-12-17 05:00:00 |
| Finish Date: | 12/17/1992 5:00:00 AM |
| Qual: | Not reported |
| Current Action Lead: | EPA Perf |
| | |
| Region: | 09 |
| Site ID: | 0902226 |
| EPA ID: | CAD980893234 |
| Site Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| NPL: | F |
| FF: | N |
| OU: | 01 |
| Action Code: | TA |
| Action Name: | TECH ASSIST |
| SEQ: | 2 |
| Start Date: | 2019-01-01 06:00:00 |
| Finish Date: | Not reported |
| Qual: | Not reported |
| Current Action Lead: | EPA Perf |
| | |
| Region: | 09 |
| Site ID: | 0902226 |
| EPA ID: | CAD980893234 |
| Site Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| NPL: | F |
| FF: | N |
| OU: | 01 |
| Action Code: | ME |
| Action Name: | PRP LR |
| SEQ: | 1 |
| Start Date: | 2004-09-22 04:00:00 |
| Finish Date: | 6/29/2016 4:00:00 AM |
| Qual: | Not reported |
| Current Action Lead: | EPA Ovrsght |
| | |
| Region: | 09 |

**WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) (Continued)** **1000270970**

| | |
|---|---|
| Site ID: | 0902226 |
| EPA ID: | CAD980893234 |
| Site Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| NPL: | F |
| FF: | N |
| OU: | 01 |
| Action Code: | BF |
| Action Name: | PRP RA |
| SEQ: | 1 |
| Start Date: | 1991-12-16 05:00:00 |
| Finish Date: | 12/28/1994 5:00:00 AM |
| Qual: | IR |
| Current Action Lead: | EPA Ovrsght |

| | |
|---|---|
| Region: | 09 |
| Site ID: | 0902226 |
| EPA ID: | CAD980893234 |
| Site Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| NPL: | F |
| FF: | N |
| OU: | 01 |
| Action Code: | BE |
| Action Name: | PRP RD |
| SEQ: | 1 |
| Start Date: | 1991-07-16 04:00:00 |
| Finish Date: | 7/16/1991 4:00:00 AM |
| Qual: | Not reported |
| Current Action Lead: | EPA Ovrsght |

| | |
|---|---|
| Region: | 09 |
| Site ID: | 0902226 |
| EPA ID: | CAD980893234 |
| Site Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| NPL: | F |
| FF: | N |
| OU: | 01 |
| Action Code: | AR |
| Action Name: | ADMIN REC |
| SEQ: | 1 |
| Start Date: | 1990-01-04 05:00:00 |
| Finish Date: | 1/8/1990 5:00:00 AM |
| Qual: | E |
| Current Action Lead: | EPA Ovrsght |

| | |
|---|---|
| Region: | 09 |
| Site ID: | 0902226 |
| EPA ID: | CAD980893234 |
| Site Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| NPL: | F |
| FF: | N |
| OU: | 01 |
| Action Code: | BD |
| Action Name: | PRP RI/FS |
| SEQ: | 1 |
| Start Date: | 1987-09-22 04:00:00 |
| Finish Date: | 6/29/1990 4:00:00 AM |
| Qual: | Not reported |

**WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) (Continued)** **1000270970**

Current Action Lead: EPA Ovrsght

SIte:
Name: WATKINS-JOHNSON CO. (STEWART DIVISION PLANT)
Address: 440 KINGS VILLAGE RD
Address 2: Not reported
City,State,Zip: SCOTTS VALLEY, CA 95066
Event Code: Not reported
Action Taken Date: 06/29/1990
EPA ID: CAD980893234
Action Name: Record of Decision
Action ID: 1
Operable Unit: 01
Contaminated Media: Soil
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: N
Fiscal Year: 1990
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 37.051111
Longitude: -122.029028

Media:
EPA ID: CAD980893234
Contaminated Media: Soil
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 06/29/1990
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: N
Fiscal Year: 1990
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 37.051111
Longitude: -122.029028

EPA ID: CAD980893234
Contaminated Media: Soil
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 06/29/1990
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: N
Fiscal Year: 1990
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N

**WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) (Continued)** **1000270970**

| | |
|---|---|
| Latitude: | 37.051111 |
| Longitude: | -122.029028 |
| EPA ID: | CAD980893234 |
| Contaminated Media: | Groundwater |
| Action ID: | 1 |
| Operable Unit: | 01 |
| Action Name: | Record of Decision |
| Action Taken Date: | 06/29/1990 |
| Event Code: | Not reported |
| Contact Name: | Not reported |
| Contact Telephone: | Not reported |
| Event: | Not reported |
| Federal Facility: | N |
| Fiscal Year: | 1990 |
| NPL Status: | Currently on the Final NPL |
| Superfund Alternative Agreement: | N |
| Latitude: | 37.051111 |
| Longitude: | -122.029028 |
| EPA ID: | CAD980893234 |
| Contaminated Media: | Groundwater |
| Action ID: | 1 |
| Operable Unit: | 01 |
| Action Name: | Record of Decision |
| Action Taken Date: | 06/29/1990 |
| Event Code: | Not reported |
| Contact Name: | Not reported |
| Contact Telephone: | Not reported |
| Event: | Not reported |
| Federal Facility: | N |
| Fiscal Year: | 1990 |
| NPL Status: | Currently on the Final NPL |
| Superfund Alternative Agreement: | N |
| Latitude: | 37.051111 |
| Longitude: | -122.029028 |
| EPA ID: | CAD980893234 |
| Contaminated Media: | Groundwater |
| Action ID: | 1 |
| Operable Unit: | 01 |
| Action Name: | Record of Decision |
| Action Taken Date: | 06/29/1990 |
| Event Code: | Not reported |
| Contact Name: | Not reported |
| Contact Telephone: | Not reported |
| Event: | Not reported |
| Federal Facility: | N |
| Fiscal Year: | 1990 |
| NPL Status: | Currently on the Final NPL |
| Superfund Alternative Agreement: | N |
| Latitude: | 37.051111 |
| Longitude: | -122.029028 |
| EPA ID: | CAD980893234 |
| Contaminated Media: | Groundwater |
| Action ID: | 1 |

**WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) (Continued)** **1000270970**

| | |
|---|---|
| Operable Unit: | 01 |
| Action Name: | Record of Decision |
| Action Taken Date: | 06/29/1990 |
| Event Code: | Not reported |
| Contact Name: | Not reported |
| Contact Telephone: | Not reported |
| Event: | Not reported |
| Federal Facility: | N |
| Fiscal Year: | 1990 |
| NPL Status: | Currently on the Final NPL |
| Superfund Alternative Agreement: | N |
| Latitude: | 37.051111 |
| Longitude: | -122.029028 |

| | |
|---|---|
| EPA ID: | CAD980893234 |
| Contaminated Media: | Groundwater |
| Action ID: | 1 |
| Operable Unit: | 01 |
| Action Name: | Record of Decision |
| Action Taken Date: | 06/29/1990 |
| Event Code: | Not reported |
| Contact Name: | Not reported |
| Contact Telephone: | Not reported |
| Event: | Not reported |
| Federal Facility: | N |
| Fiscal Year: | 1990 |
| NPL Status: | Currently on the Final NPL |
| Superfund Alternative Agreement: | N |
| Latitude: | 37.051111 |
| Longitude: | -122.029028 |

| | |
|---|---|
| EPA ID: | CAD980893234 |
| Contaminated Media: | Groundwater |
| Action ID: | 1 |
| Operable Unit: | 01 |
| Action Name: | Record of Decision |
| Action Taken Date: | 06/29/1990 |
| Event Code: | Not reported |
| Contact Name: | Not reported |
| Contact Telephone: | Not reported |
| Event: | Not reported |
| Federal Facility: | N |
| Fiscal Year: | 1990 |
| NPL Status: | Currently on the Final NPL |
| Superfund Alternative Agreement: | N |
| Latitude: | 37.051111 |
| Longitude: | -122.029028 |

| | |
|---|---|
| EPA ID: | CAD980893234 |
| Contaminated Media: | Groundwater |
| Action ID: | 1 |
| Operable Unit: | 01 |
| Action Name: | Record of Decision |
| Action Taken Date: | 06/29/1990 |
| Event Code: | Not reported |
| Contact Name: | Not reported |
| Contact Telephone: | Not reported |

**WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) (Continued)** **1000270970**

| | |
|---|---|
| Event: | Not reported |
| Federal Facility: | N |
| Fiscal Year: | 1990 |
| NPL Status: | Currently on the Final NPL |
| Superfund Alternative Agreement: | N |
| Latitude: | 37.051111 |
| Longitude: | -122.029028 |

| | |
|---|---|
| EPA ID: | CAD980893234 |
| Contaminated Media: | Soil |
| Action ID: | 1 |
| Operable Unit: | 01 |
| Action Name: | Record of Decision |
| Action Taken Date: | 06/29/1990 |
| Event Code: | Not reported |
| Contact Name: | Not reported |
| Contact Telephone: | Not reported |
| Event: | Not reported |
| Federal Facility: | N |
| Fiscal Year: | 1990 |
| NPL Status: | Currently on the Final NPL |
| Superfund Alternative Agreement: | N |
| Latitude: | 37.051111 |
| Longitude: | -122.029028 |

ROD:

| | |
|---|---|
| Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| Address: | 440 KINGS VILLAGE RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| EPA ID: | CAD980893234 |
| RG: | 9 |
| Site ID: | 902226 |
| Action: | GOVT ROD for PRP Remedy |
| Operable Unit Number: | OVERALL SITE |
| SEQ ID: | 1 |
| Action Completion: | 1990-06-29 00:00:00 |
| NPL Status: | Final |
| Non NPL Status: | Not reported |

PRP:

| | |
|---|---|
| EPAID: | CAD980893234 |
| Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| Address: | 440 KINGS VILLAGE RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| NPL Status: | Currently on the Final NPL |
| NPL Status Short Name: | Not reported |
| PRP Name: | WATKINS-JOHNSON CO. |
| PRP Address: | 3333 HILLVIEW AVE. |
| PRP City,State,Zip: | PALO ALTO, CA 94304 |
| Data Type: | SETTLEMENT DATE |
| Action Date: | 9/21/1987 |
| Settlement Code: | AC-1 |
| Settlement: | ADM ORDR |

| | |
|---|---|
| EPAID: | CAD980893234 |

**WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) (Continued)** **1000270970**

| | |
|---|---|
| Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| Address: | 440 KINGS VILLAGE RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| NPL Status: | Currently on the Final NPL |
| NPL Status Short Name: | Not reported |
| PRP Name: | WATKINS-JOHNSON CO. |
| PRP Address: | 3333 HILLVIEW AVE. |
| PRP City,State,Zip: | PALO ALTO, CA 94304 |
| Data Type: | SPECIAL NOTICE |
| Action Date: | 6/18/1987 |
| Settlement Code: | SG-1 |
| Settlement: | Spcl Not Ltrs |

| | |
|---|---|
| EPAID: | CAD980893234 |
| Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| Address: | 440 KINGS VILLAGE RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| NPL Status: | Currently on the Final NPL |
| NPL Status Short Name: | Not reported |
| PRP Name: | WATKINS-JOHNSON CO. |
| PRP Address: | 3333 HILLVIEW AVE. |
| PRP City,State,Zip: | PALO ALTO, CA 94304 |
| Data Type: | GENERAL NOTICE |
| Action Date: | 6/18/1987 |
| Settlement Code: | NJ-1 |
| Settlement: | Not Ltrs |

| | |
|---|---|
| EPAID: | CAD980893234 |
| Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| Address: | 440 KINGS VILLAGE RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| NPL Status: | Currently on the Final NPL |
| NPL Status Short Name: | Not reported |
| PRP Name: | WATKINS-JOHNSON CO. |
| PRP Address: | 3333 HILLVIEW AVE. |
| PRP City,State,Zip: | PALO ALTO, CA 94304 |
| Data Type: | SETTLEMENT DATE |
| Action Date: | 10/31/1991 |
| Settlement Code: | CD-1 |
| Settlement: | C DECREE |

CONSENT:

| | |
|---|---|
| EPA ID: | CAD980893234 |
| Site ID: | Not reported |
| Case Title: | Not reported |
| Court Num: | Not reported |
| District: | Not reported |
| Entered Date: | Not reported |
| Name: | US V. WATKINS-JOHNSON COMPANY |
| Name: | WATKINS-JOHNSON CO. (STEWART DIVISION PLANT) |
| Address: | 440 KINGS VILLAGE RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| County: | SANTA CRUZ |

**7** **RICHARD CORONA** **HAZNET** **S118931697**
**307 LOCKEWOOD LN** **HWTS** **N/A**
**< 1/8** **SCOTTS VALLEY, CA 95066**
**0.001 mi.**
**5 ft.**

**Relative:**
**Higher**

**Actual:**
**520 ft.**

HAZNET:

| | |
|---|---|
| Name: | RICHARD CORONA |
| Address: | 307 LOCKEWOOD LN |
| Address 2: | Not reported |
| City,State,Zip: | SCOTTS VALLEY, CA 950663915 |
| Contact: | RICHARD CORONA |
| Telephone: | 6508888685 |
| Mailing Name: | Not reported |
| Mailing Address: | 307 LOCKEWOOD LN |
| Year: | 2015 |
| Gepaid: | CAC002833924 |
| 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 |

Additional Info:

| | |
|---|---|
| Year: | 2015 |
| Gen EPA ID: | CAC002833924 |
| Shipment Date: | 20151207 |
| Creation Date: | 2/5/2016 22:15:30 |
| Receipt Date: | 20151214 |
| Manifest ID: | 002495249GBF |
| Trans EPA ID: | CAR000194068 |
| Trans Name: | DISASTER KLEENUP SPECIALIST |
| Trans 2 EPA ID: | CAR000037283 |
| Trans 2 Name: | WORLD ENVIRONMENTAL & ENERGY |
| TSDF EPA ID: | CAD981382732 |
| Trans Name: | ALTAMONT LAND FILL |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 151 - Asbestos-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| Quantity Tons: | 0.23 |
| Waste Quantity: | 1 |
| Quantity Unit: | Y |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

HWTS:

| | |
|---|---|
| Name: | RICHARD CORONA |
| Address: | 307 LOCKEWOOD LN |
| Address 2: | Not reported |

**RICHARD CORONA (Continued)** **S118931697**

| | |
|---|---|
| City,State,Zip: | SCOTTS VALLEY, CA 950663915 |
| EPA ID: | CAC002833924 |
| Inactive Date: | 01/16/2016 |
| Create Date: | 10/16/2015 |
| Last Act Date: | 01/16/2016 |
| Mailing Name: | Not reported |
| Mailing Address: | 307 LOCKEWOOD LN |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | SCOTTS VALLEY, CA 950663915 |
| Owner Name: | RICHARD CORONA |
| Owner Address: | 307 LOCKEWOOD LN |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | SCOTTS VALLEY, CA 950663915 |
| Contact Name: | RICHARD CORONA |
| Contact Address: | 307 LOCKEWOOD LN |
| Contact Address 2: | Not reported |
| City,State,Zip: | SCOTTS VALLEY, CA 950663915 |

---

**B8** **CVS PHARMACY # 9862** **CERS HAZ WASTE** **S113160212**
**NE** **257 MOUNT HERMON RD** **HAZNET** **N/A**
**< 1/8** **SCOTTS VALLEY, CA 95066** **CERS**
**0.013 mi.** **HWTS**
**67 ft.** **Site 1 of 4 in cluster B**

**Relative:** **Lower**

**Actual:** **508 ft.**

CERS HAZ WASTE:

| | |
|---|---|
| Name: | CVS PHARMACY #9862 |
| Address: | 257 MOUNT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Site ID: | 109698 |
| CERS ID: | 10207174 |
| CERS Description: | RCRA LQ HW Generator |

| | |
|---|---|
| Name: | CVS PHARMACY #9862 |
| Address: | 257 MOUNT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Site ID: | 109698 |
| CERS ID: | 10207174 |
| CERS Description: | Hazardous Waste Generator |

HAZNET:

| | |
|---|---|
| Name: | CVS PHARMACY # 9862 |
| Address: | 257 MOUNT HERMON RD |
| Address 2: | Not reported |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Contact: | Wendy Brant |
| Telephone: | 4017651500 |
| Mailing Name: | Not reported |
| Mailing Address: | 1 CVS DR |
| Year: | 2013 |
| Gepaid: | CAL000357695 |
| TSD EPA ID: | INR000110197 |
| CA Waste Code: | 131 - Aqueous solution (2 < pH < 12.5) containing reactive anions ... |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.0025 |

**CVS PHARMACY # 9862 (Continued)** **S113160212**

Year: 2013
Gepaid: CAL000357695
TSD EPA ID: INR000110197
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: 0.001

Year: 2013
Gepaid: CAL000357695
TSD EPA ID: INR000110197
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: 0.005

Year: 2013
Gepaid: CAL000357695
TSD EPA ID: INR000110197
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: 0.0275

Year: 2013
Gepaid: CAL000357695
TSD EPA ID: INR000110197
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: 0.0395

Year: 2013
Gepaid: CAL000357695
TSD EPA ID: INR000110197
CA Waste Code: 232 - Pesticides and other waste associated with pesticide production
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.0005

Year: 2012
Gepaid: CAL000357695
TSD EPA ID: INR000110197
CA Waste Code: -
Disposal Method: -
Tons: 0.029

Year: 2012
Gepaid: CAL000357695
TSD EPA ID: INR000110197
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: 0.0005

Year: 2012
Gepaid: CAL000357695

**CVS PHARMACY # 9862 (Continued)** **S113160212**

TSD EPA ID: INR000110197
CA Waste Code: -
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.0005

Year: 2012
Gepaid: CAL000357695
TSD EPA ID: INR000110197
CA Waste Code: 131 - Aqueous solution (2 < pH < 12.5) containing reactive anions ...
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.001

Click this hyperlink while viewing on your computer to access
15 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2011
Gen EPA ID: CAL000357695

Shipment Date: 20111207
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 005194903FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: OKD981588791
Trans 2 Name: TRIAD TRANSPORT INC
TSDF EPA ID: INR000110197
Trans Name: STERICYCLE INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 561 - Not reported
RCRA Code: Not reported
Meth Code: - Not reported
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: 20111207
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 005194903FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: OKD981588791
Trans 2 Name: TRIAD TRANSPORT INC
TSDF EPA ID: INR000110197
Trans Name: STERICYCLE INC
TSDF Alt EPA ID: Not reported

**CVS PHARMACY # 9862 (Continued)** **S113160212**

| | |
|---|---|
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | P001 |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.001 |
| Waste Quantity: | 2 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20111207 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005194903FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| 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: | 20111207 |
| Creation Date: | 12/3/2012 22:15:48 |
| Receipt Date: | 20111220 |
| Manifest ID: | 005194903FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 541 - Photochemicals / photo processing waste |
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.019 |
| Waste Quantity: | 38 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |

**CVS PHARMACY # 9862 (Continued)** **S113160212**

| | |
|---|---|
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20111207 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005194903FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.001 |
| Waste Quantity: | 2 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20111207 |
| Creation Date: | 12/3/2012 22:15:48 |
| Receipt Date: | 20111220 |
| Manifest ID: | 005194903FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| 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 |
| | |
| Shipment Date: | 20111207 |
| Creation Date: | 12/3/2012 22:15:48 |
| Receipt Date: | 20111220 |

**CVS PHARMACY # 9862 (Continued)** **S113160212**

| | |
|---|---|
| Manifest ID: | 005194903FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 541 - Photochemicals / photo processing waste |
| RCRA Code: | D011 |
| 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: | 20111207 |
| Creation Date: | 12/3/2012 22:15:48 |
| Receipt Date: | 20111220 |
| Manifest ID: | 005194903FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | D011 |
| 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: | D010 |
| Additional Code 2: | D009 |
| Additional Code 3: | D007 |
| Additional Code 4: | D006 |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20111024 |
| Creation Date: | 1/20/2012 20:31:14 |
| Receipt Date: | 20111107 |
| Manifest ID: | 000034027DAT |
| Trans EPA ID: | CAR000210617 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD980884183 |
| Trans Name: | GENERAL ENVIRONMENTAL MGT LLC DBA PSC ENVIRONMENTAL SERVICES |

**CVS PHARMACY # 9862 (Continued)** **S113160212**

| | |
|---|---|
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 141 - Off-specification, aged, or surplus inorganics |
| RCRA Code: | D011 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.2085 |
| Waste Quantity: | 50 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20110908 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005015876FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAD982492399 |
| Trans 2 Name: | ALL CHEMICAL DISPOSAL INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| 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 |

Additional Info:

| | |
|---|---|
| Year: | 2013 |
| Gen EPA ID: | CAL000357695 |
| | |
| Shipment Date: | 20131118 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 006231670FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 122 - Alkaline solution without metals (pH > 12.5 |
| RCRA Code: | D002 |

**CVS PHARMACY # 9862 (Continued)** **S113160212**

| | |
|---|---|
| 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: | 20131118 |
| Creation Date: | 4/15/2014 22:15:05 |
| Receipt Date: | 20131206 |
| Manifest ID: | 006231670FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | P001 |
| 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: | 20131118 |
| Creation Date: | 4/15/2014 22:15:05 |
| Receipt Date: | 20131206 |
| Manifest ID: | 006231670FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | P188 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0015 |
| Waste Quantity: | 3 |
| Quantity Unit: | P |
| Additional Code 1: | P081 |
| Additional Code 2: | P075 |

**CVS PHARMACY # 9862 (Continued)** **S113160212**

| | |
|---|---|
| Additional Code 3: | P001 |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20131118 |
| Creation Date: | 4/15/2014 22:15:05 |
| Receipt Date: | 20131206 |
| Manifest ID: | 006231670FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 181 - Other inorganic solid waste Organics |
| RCRA Code: | D011 |
| 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: | D009 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20131118 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 006231670FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| 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: | 20131118 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |

**CVS PHARMACY # 9862 (Continued)** **S113160212**

| | |
|---|---|
| Manifest ID: | 006231670FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.028 |
| Waste Quantity: | 56 |
| 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: | 20131118 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 006231670FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| 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: | 20131118 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 006231670FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |

**CVS PHARMACY # 9862 (Continued)** **S113160212**

| | |
|---|---|
| Waste Code Description: | 561 - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.037 |
| Waste Quantity: | 74 |
| 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: | 20131118 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 006231670FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0095 |
| Waste Quantity: | 19 |
| 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: | 20131118 |
| Creation Date: | 4/15/2014 22:15:05 |
| Receipt Date: | 20131206 |
| Manifest ID: | 006231670FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 131 - Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0015 |
| Waste Quantity: | 3 |

**CVS PHARMACY # 9862 (Continued)** **S113160212**

| | |
|---|---|
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2012 |
| Gen EPA ID: | CAL000357695 |
| Shipment Date: | 20121019 |
| Creation Date: | 1/25/2013 22:15:09 |
| Receipt Date: | 20121126 |
| Manifest ID: | 000065005DAT |
| Trans EPA ID: | CAR000210617 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP |
| Trans 2 EPA ID: | CAD982523433 |
| Trans 2 Name: | DILLARD ENVIRON SERV |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | H010 - Metals Recovery Including Retoring,Smelting,Chemicals,Ect |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20121019 |
| Creation Date: | 1/25/2013 22:15:09 |
| Receipt Date: | 20121126 |
| Manifest ID: | 000065005DAT |
| Trans EPA ID: | CAR000210617 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP |
| Trans 2 EPA ID: | CAD982523433 |
| Trans 2 Name: | DILLARD ENVIRON SERV |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |

**CVS PHARMACY # 9862 (Continued)** **S113160212**

| | |
|---|---|
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20121019 |
| Creation Date: | 1/25/2013 22:15:09 |
| Receipt Date: | 20121126 |
| Manifest ID: | 000065005DAT |
| Trans EPA ID: | CAR000210617 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP |
| Trans 2 EPA ID: | CAD982523433 |
| Trans 2 Name: | DILLARD ENVIRON SERV |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20121019 |
| Creation Date: | 1/25/2013 22:15:09 |
| Receipt Date: | 20121126 |
| Manifest ID: | 000065005DAT |
| Trans EPA ID: | CAR000210617 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP |
| Trans 2 EPA ID: | CAD982523433 |
| Trans 2 Name: | DILLARD ENVIRON SERV |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 541 - Photochemicals / photo processing waste |
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.045 |
| Waste Quantity: | 90 |
| 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: | 20121016 |
| Creation Date: | 4/3/2013 22:15:15 |
| Receipt Date: | 20121102 |
| Manifest ID: | 005807088FLE |

**CVS PHARMACY # 9862 (Continued)** **S113160212**

| | |
|---|---|
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | P204 |
| 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: | P188 |
| Additional Code 2: | P081 |
| Additional Code 3: | P075 |
| Additional Code 4: | P012 |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20121016 |
| Creation Date: | 4/3/2013 22:15:15 |
| Receipt Date: | 20121102 |
| Manifest ID: | 005807088FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 141 - Off-specification, aged, or surplus inorganics |
| RCRA Code: | D001 |
| 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: | 20121016 |
| Creation Date: | 4/3/2013 22:15:15 |
| Receipt Date: | 20121102 |
| Manifest ID: | 005807088FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |

**CVS PHARMACY # 9862 (Continued)** **S113160212**

| | |
|---|---|
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | D024 |
| 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 |
| | |
| Shipment Date: | 20121016 |
| Creation Date: | 4/3/2013 22:15:15 |
| Receipt Date: | 20121102 |
| Manifest ID: | 005807088FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 131 - Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions |
| RCRA Code: | D001 |
| 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 |
| | |
| Shipment Date: | 20121016 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005807088FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | P001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |

**CVS PHARMACY # 9862 (Continued)** **S113160212**

| | |
|---|---|
| Quantity Tons: | 0.001 |
| Waste Quantity: | 2 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20121016 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005807088FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 122 - Alkaline solution without metals (pH > 12.5 |
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0105 |
| Waste Quantity: | 21 |
| 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: | CVS PHARMACY #9862 |
| Address: | 257 MOUNT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Site ID: | 109698 |
| CERS ID: | 10207174 |
| CERS Description: | Chemical Storage Facilities |

Violations:

| | |
|---|---|
| Site ID: | 109698 |
| Site Name: | CVS Pharmacy #9862 |
| Violation Date: | 10-03-2017 |
| Citation: | 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a) |
| Violation Description: | Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste. |
| Violation Notes: | Returned to compliance on 11/22/2017. Signed copies of the designated facility to generator, uniform hazardous waste manifests 008626447 FLE and 008626448 FLE for the shipment dated 04-06-17 were not available for review. Make those copies available for review. If they are not |

**CVS PHARMACY # 9862 (Continued)** **S113160212**

available or obtainable, send an exception report to DTSC.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 109698
Site Name: CVS Pharmacy #9862
Violation Date: 10-03-2017
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 11/22/2017. The pharmacy hazardous waste bin’s contents were not identified. Include the bin’s contents in it’s labeling.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 109698
Site Name: CVS Pharmacy #9862
Violation Date: 10-28-2013
Citation: 19 CCR 4 2729.2(a)(1) - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.2(a)(1)
Violation Description: Owner/Operator failed to complete and/or submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes: Returned to compliance on 11/18/2013.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 06-13-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-13-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Ispection authorized by Olivia Reynolds, Shift Supervisor.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-01-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported

**CVS PHARMACY # 9862 (Continued)** **S113160212**

Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-01-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-03-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Mr. Rick Lewis, Store Manager.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-03-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-04-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-04-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Kim Vaquerano, Store Manager.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-05-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

**CVS PHARMACY # 9862 (Continued)** **S113160212**

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 10-05-2018 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Inspection authorized by Karen Krause, Store Manager. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 10-13-2015 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 10-13-2015 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HWLQG |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 10-18-2016 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HWLQG |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 10-18-2016 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Inspection authorized by Rick Lewis, Store Manager. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 10-28-2013 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 10-28-2013 |
| Violations Found: | Yes |

**CVS PHARMACY # 9862 (Continued)** **S113160212**

| | |
|---|---|
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 11-22-2017 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Inspection authorized by Jarad Bicknell, Shift Supervisor. The 2 designated facility to generator copies of 04-06-17 manifests have been made available for review and the pharmacy hazardous waste bin has been labeled with it's contents. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HWLQG |
| Eval Source: | CERS |

Enforcement Action:

| | |
|---|---|
| Site ID: | 109698 |
| Site Name: | CVS Pharmacy #9862 |
| Site Address: | 257 MOUNT HERMON RD |
| Site City: | SCOTTS VALLEY |
| Site Zip: | 95066 |
| Enf Action Date: | 10-03-2017 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Santa Cruz County Environmental Health |
| Enf Action Program: | HWLQG |
| Enf Action Source: | CERS |
| | |
| Site ID: | 109698 |
| Site Name: | CVS Pharmacy #9862 |
| Site Address: | 257 MOUNT HERMON RD |
| Site City: | SCOTTS VALLEY |
| Site Zip: | 95066 |
| Enf Action Date: | 10-28-2013 |
| 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 Cruz County Environmental Health |
| Enf Action Program: | HMRRP |
| Enf Action Source: | CERS |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | Erin Baltazar, Agent for Longs Drug Stores California, L.L.C. |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

**CVS PHARMACY # 9862 (Continued)** **S113160212**

| | |
|---|---|
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | Longs Drug Stores California, L.L.C. |
| Entity Title: | Not reported |
| Affiliation Address: | One CVS Drive |
| Affiliation City: | Woonsocket |
| Affiliation State: | RI |
| Affiliation Country: | United States |
| Affiliation Zip: | 02895 |
| Affiliation Phone: | (401) 765-1500 |

| | |
|---|---|
| Affiliation Type Desc: | CUPA District |
| Entity Name: | Santa Cruz County Environmental Health |
| Entity Title: | Not reported |
| Affiliation Address: | 701 Ocean Boulevard, Suite 312 |
| Affiliation City: | Santa Cruz |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95060 |
| Affiliation Phone: | (831) 454-2022 |

| | |
|---|---|
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | Verisk 3E, Regulatory Services/CVS |
| Entity Title: | Not reported |
| Affiliation Address: | 3207 Grey Hawk Ct., Ste. 200 |
| Affiliation City: | Carlsbad |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92010 |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Operator |
| Entity Name: | Longs Drug Stores California, L.L.C. |
| 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: | (401) 765-1500 |

| | |
|---|---|
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | CVS Health |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | CVS Health, Attn: Dianne E. Durand, Licensing, One CVS Drive - MC1160 |
| Affiliation City: | Woonsocket |
| Affiliation State: | RI |
| Affiliation Country: | Not reported |

**CVS PHARMACY # 9862 (Continued)** **S113160212**

Affiliation Zip: 02895
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Melissa Vales, Agent for Longs Drug Stores California, L.L.C.
Entity Title: Regulatory Compliance Specialist, Verisk 3E
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: Scotts Valley Plaza
Entity Title: Not reported
Affiliation Address: 1606 N. Main St
Affiliation City: Salinas
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 93906
Affiliation Phone: (831) 449-6672

HWTS:
Name: CVS PHARMACY # 9862
Address: 257 MOUNT HERMON RD
Address 2: Not reported
City,State,Zip: SCOTTS VALLEY, CA 95066
EPA ID: CAL000357695
Inactive Date: 06/30/2013
Create Date: 10/05/2010
Last Act Date: 07/08/2014
Mailing Name: Not reported
Mailing Address: 1 CVS DR
Mailing Address 2: Not reported
Mailing City,State,Zip: WOONSOCKET, RI 02895
Owner Name: LONGS DRUG STORES CALIFORNIA LLC
Owner Address: 1 CVS DR
Owner Address 2: Not reported
Owner City,State,Zip: WOONSOCKET, RI 02895
Contact Name: WENDY BRANT
Contact Address: 1 CVS DRIVE - 02362A
Contact Address 2: Not reported
City,State,Zip: WOONSOCKET, RI 028956146

NAICS:
EPA ID: CAL000357695
Create Date: 2010-10-05 11:45:21.957
NAICS Code: 44611
NAICS Description: Pharmacies and Drug Stores
Issued EPA ID Date: 2010-10-05 11:45:21.95700
Inactive Date: 2013-06-30 00:00:00
Facility Name: CVS PHARMACY # 9862
Facility Address: 257 MOUNT HERMON RD
Facility Address 2: Not reported
Facility City: SCOTTS VALLEY

**CVS PHARMACY # 9862 (Continued)** **S113160212**

Facility County: Not reported
Facility State: CA
Facility Zip: 95066

---

**B9** **CVS PHARMACY #9862** **RCRA-LQG** **1015740467**
**NE** **257 MOUNT HERMON RD** **FINDS** **CAR000231803**
**< 1/8** **SCOTTS VALLEY, CA 95066** **ECHO**
**0.013 mi.**
**67 ft.** **Site 2 of 4 in cluster B**

**Relative:** **Lower**
**Actual:** **508 ft.**

RCRA-LQG:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 2020-02-19 00:00:00.0 |
| Handler Name: | CVS PHARMACY # 9862 | |
| Handler Address: | | 257 MOUNT HERMON ROAD |
| Handler City,State,Zip: | | SCOTTS VALLEY, CA 95066-0000 |
| EPA ID: | | CAR000231803 |
| Contact Name: | | NICOLE WILKINSON |
| Contact Address: | | CVS DRIVE |
| Contact City,State,Zip: | | WOONSOCKET, RI 02895 |
| Contact Telephone: | | 401-770-7132 |
| Contact Fax: | | Not reported |
| Contact Email: | | NICOLE.WILKINSON@CVSHEALTH.COM |
| Contact Title: | | DIRECTOR CORPORATE ENVIRONMENTAL |
| EPA Region: | | 09 |
| Land Type: | | Private |
| Federal Waste Generator Description: | | Large Quantity Generator |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | 2019 |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Handler Activities |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | CVS DRIVE MC2340 |
| Mailing City,State,Zip: | | WOONSOCKET, RI 02895 |
| Owner Name: | | SCOTTS VALLEY PLAZA |
| Owner Type: | | Private |
| Operator Name: | | LONGS DRUG STORES CALIFORNIA, LLC |
| Operator Type: | | Private |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |
| Underground Injection Control: | | No |
| Off-Site Waste Receipt: | | No |
| Universal Waste Indicator: | | No |
| Universal Waste Destination Facility: | | No |
| Federal Universal Waste: | | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Handler: | | --- |
| Federal Facility Indicator: | | Not reported |
| Hazardous Secondary Material Indicator: | | N |

**CVS PHARMACY #9862 (Continued)** **1015740467**

| | |
|---|---|
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2020-10-16 12:28:16.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Biennial: List of Years
Year: 2017

Click Here for Biennial Reporting System Data:
Year: 2015

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D002
Waste Description: CORROSIVE WASTE

Waste Code: D003
Waste Description: REACTIVE WASTE

Waste Code: D005

**CVS PHARMACY #9862 (Continued)** **1015740467**

Waste Description: BARIUM

Waste Code: D007
Waste Description: CHROMIUM

Waste Code: D009
Waste Description: MERCURY

Waste Code: D010
Waste Description: SELENIUM

Waste Code: D011
Waste Description: SILVER

Waste Code: D018
Waste Description: BENZENE

Waste Code: D022
Waste Description: CHLOROFORM

Waste Code: D024
Waste Description: M-CRESOL

Waste Code: D025
Waste Description: P-CRESOL

Waste Code: D026
Waste Description: CRESOL

Waste Code: D035
Waste Description: METHYL ETHYL KETONE

Waste Code: P001
Waste Description: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

Waste Code: P042
Waste Description: 1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)- (OR) EPINEPHRINE

Waste Code: P075
Waste Description: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

Waste Code: P081
Waste Description: 1,2,3-PROPANETRIOL, TRINITRATE (R) (OR) NITROGLYCERINE (R)

Waste Code: U002
Waste Description: 2-PROPANONE (I) (OR) ACETONE (I)

Waste Code: U034
Waste Description: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

Waste Code: U035
Waste Description: BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) CHLORAMBUCIL

**CVS PHARMACY #9862 (Continued)** **1015740467**

Waste Code: U058
Waste Description: 2H-1,3,2-OXAZAPHOSPHORIN-2-AMINE, N,N-BIS(2-CHLOROETHYL)TETRAHYDRO-, 2-OXIDE (OR) CYCLOPHOSPHAMIDE

Waste Code: U122
Waste Description: FORMALDEHYDE

Waste Code: U129
Waste Description: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA, 2ALPHA, 3BETA, 4ALPHA, 5ALPHA, 6BETA)- (OR) LINDANE

Waste Code: U132
Waste Description: HEXACHLOROPHENE (OR) PHENOL, 2,2'-METHYLENEBIS[3,4,6-TRICHLORO-

Waste Code: U154
Waste Description: METHANOL (I) (OR) METHYL ALCOHOL (I)

Waste Code: U165
Waste Description: NAPHTHALENE

Waste Code: U188
Waste Description: PHENOL

Waste Code: U201
Waste Description: 1,3-BENZENEDIOL (OR) RESORCINOL

Waste Code: U205
Waste Description: SELENIUM SULFIDE (OR) SELENIUM SULFIDE SES2 (R,T)

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: LONGS DRUG STORES CALIFORNIA, L.L.C
Legal Status: Private
Date Became Current: 2008-10-22 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: SCOTTS VALLEY PLAZA
Legal Status: Private
Date Became Current: 1982-03-04 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 1606 N MAIN ST
Owner/Operator City,State,Zip: SALINAS, CA 93906
Owner/Operator Telephone: 831-449-6672
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: LONGS DRUG STORES CALIFORNIA, LLC
Legal Status: Private

**CVS PHARMACY #9862 (Continued)** **1015740467**

| | |
|---|---|
| Date Became Current: | 2008-10-22 00:00:00. |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1 CVS DRIVE |
| Owner/Operator City,State,Zip: | WOONSOCKET, RI 02895 |
| Owner/Operator Telephone: | 401-765-1500 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | CORPORATEENVIRONMENTALTEAM@CVSHEALTH.COM |
| | |
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | LONGS DRUG STORES CALIFORNIA, LLC |
| Legal Status: | Private |
| Date Became Current: | 2008-10-22 00:00:00. |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1 CVS DRIVE |
| Owner/Operator City,State,Zip: | WOONSOCKET, RI 02895 |
| Owner/Operator Telephone: | 401-765-1500 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | CORPORATEENVIRONMENTALTEAM@CVSHEALTH.COM |
| | |
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | SCOTTS VALLEY PLAZA |
| Legal Status: | Private |
| Date Became Current: | 1982-03-04 00:00:00. |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1606 N MAIN ST |
| Owner/Operator City,State,Zip: | SALINAS, CA 93906 |
| Owner/Operator Telephone: | 831-449-6672 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | NICOLE.WILKINSON@CVSHEALTH.COM |
| | |
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | LONGS DRUG STORES CALIFORNIA LLC |
| Legal Status: | Private |
| Date Became Current: | 2008-10-22 00:00:00. |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | Not reported |
| Owner/Operator City,State,Zip: | Not reported |
| Owner/Operator Telephone: | Not reported |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |
| | |
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | SCOTTS VALLEY PLAZA |
| Legal Status: | Private |
| Date Became Current: | 1982-03-04 00:00:00. |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1606 N MAIN ST |
| Owner/Operator City,State,Zip: | SALINAS, CA 93906 |
| Owner/Operator Telephone: | Not reported |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

**CVS PHARMACY #9862 (Continued)** **1015740467**

Owner/Operator Indicator: Owner
Owner/Operator Name: SCOTTS VALLEY PLAZA
Legal Status: Private
Date Became Current: 1982-03-04 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 1606 N MAIN ST
Owner/Operator City,State,Zip: SALINAS, CA 93906
Owner/Operator Telephone: 831-449-6672
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: NICOLE.WILKINSON@CVSHEALTH.COM

Historic Generators:

Receive Date: 2016-08-26 00:00:00.0
Handler Name: CVS PHARMACY #9862
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: 2018-03-01 00:00:00.0
Handler Name: CVS PHARMACY # 9862
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: No
Electronic Manifest Broker: No

Receive Date: 2020-02-19 00:00:00.0
Handler Name: CVS PHARMACY # 9862
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: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 2012-10-25 00:00:00.0
Handler Name: CVS PHARMACY NO 9862
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No

**CVS PHARMACY #9862 (Continued)** **1015740467**

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: 44611
NAICS Description: PHARMACIES AND DRUG STORES

NAICS Code: 446110
NAICS Description: PHARMACIES AND DRUG STORES

Facility Has Received Notices of Violation:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State

**CVS PHARMACY #9862 (Continued)** **1015740467**

| | |
|---|---|
| Violation Short Description: | Generators - Records/Reporting |
| Date Violation was Determined: | 2017-10-03 00:00:00.0 |
| Actual Return to Compliance Date: | 2017-11-22 00:00:00.0 |
| Return to Compliance Qualifier: | Observed |
| Violation Responsible Agency: | State |
| Scheduled Compliance Date: | 2017-11-02 00:00:00.0 |
| Enforcement Identifier: | 601 |
| Date of Enforcement Action: | 2017-10-03 00:00:00.0 |
| 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: | No |
| Agency Which Determined Violation: | Not reported |
| Violation Short Description: | Not reported |
| Date Violation was Determined: | Not reported |
| Actual Return to Compliance Date: | Not reported |
| Return to Compliance Qualifier: | Not reported |
| Violation Responsible Agency: | Not reported |
| Scheduled Compliance Date: | Not reported |
| Enforcement Identifier: | Not reported |
| Date of Enforcement Action: | Not reported |
| Enforcement Responsible Agency: | Not reported |
| Enforcement Docket Number: | Not reported |
| Enforcement Attorney: | Not reported |
| Corrective Action Component: | Not reported |
| Appeal Initiated Date: | Not reported |
| Appeal Resolution Date: | Not reported |
| Disposition Status Date: | Not reported |
| Disposition Status: | Not reported |
| Disposition Status Description: | Not reported |
| Consent/Final Order Sequence Number: | Not reported |
| Consent/Final Order Respondent Name: | Not reported |

**CVS PHARMACY #9862 (Continued)** **1015740467**

| | |
|---|---|
| Consent/Final Order Lead Agency: | Not reported |
| Enforcement Type: | Not reported |
| Enforcement Responsible Person: | Not reported |
| Enforcement Responsible Sub-Organization: | Not reported |
| SEP Sequence Number: | Not reported |
| SEP Expenditure Amount: | Not reported |
| SEP Scheduled Completion Date: | Not reported |
| SEP Actual Date: | Not reported |
| SEP Defaulted Date: | Not reported |
| SEP Type: | Not reported |
| SEP Type Description: | Not reported |
| Proposed Amount: | Not reported |
| Final Monetary Amount: | Not reported |
| Paid Amount: | Not reported |
| Final Count: | Not reported |
| Final Amount: | Not reported |
| Found Violation: | No |
| Agency Which Determined Violation: | Not reported |
| Violation Short Description: | Not reported |
| Date Violation was Determined: | Not reported |
| Actual Return to Compliance Date: | Not reported |
| Return to Compliance Qualifier: | Not reported |
| Violation Responsible Agency: | Not reported |
| Scheduled Compliance Date: | Not reported |
| Enforcement Identifier: | Not reported |
| Date of Enforcement Action: | Not reported |
| Enforcement Responsible Agency: | Not reported |
| Enforcement Docket Number: | Not reported |
| Enforcement Attorney: | Not reported |
| Corrective Action Component: | Not reported |
| Appeal Initiated Date: | Not reported |
| Appeal Resolution Date: | Not reported |
| Disposition Status Date: | Not reported |
| Disposition Status: | Not reported |
| Disposition Status Description: | Not reported |
| Consent/Final Order Sequence Number: | Not reported |
| Consent/Final Order Respondent Name: | Not reported |
| Consent/Final Order Lead Agency: | Not reported |
| Enforcement Type: | Not reported |
| Enforcement Responsible Person: | Not reported |
| Enforcement Responsible Sub-Organization: | Not reported |
| SEP Sequence Number: | Not reported |
| SEP Expenditure Amount: | Not reported |
| SEP Scheduled Completion Date: | Not reported |
| SEP Actual Date: | Not reported |
| SEP Defaulted Date: | Not reported |
| SEP Type: | Not reported |
| SEP Type Description: | Not reported |
| Proposed Amount: | Not reported |
| Final Monetary Amount: | Not reported |
| Paid Amount: | Not reported |
| Final Count: | Not reported |
| Final Amount: | Not reported |
| Found Violation: | No |
| Agency Which Determined Violation: | Not reported |

**CVS PHARMACY #9862 (Continued)** **1015740467**

| | |
|---|---|
| Violation Short Description: | Not reported |
| Date Violation was Determined: | Not reported |
| Actual Return to Compliance Date: | Not reported |
| Return to Compliance Qualifier: | Not reported |
| Violation Responsible Agency: | Not reported |
| Scheduled Compliance Date: | Not reported |
| Enforcement Identifier: | Not reported |
| Date of Enforcement Action: | Not reported |
| Enforcement Responsible Agency: | Not reported |
| Enforcement Docket Number: | Not reported |
| Enforcement Attorney: | Not reported |
| Corrective Action Component: | Not reported |
| Appeal Initiated Date: | Not reported |
| Appeal Resolution Date: | Not reported |
| Disposition Status Date: | Not reported |
| Disposition Status: | Not reported |
| Disposition Status Description: | Not reported |
| Consent/Final Order Sequence Number: | Not reported |
| Consent/Final Order Respondent Name: | Not reported |
| Consent/Final Order Lead Agency: | Not reported |
| Enforcement Type: | Not reported |
| Enforcement Responsible Person: | Not reported |
| Enforcement Responsible Sub-Organization: | Not reported |
| SEP Sequence Number: | Not reported |
| SEP Expenditure Amount: | Not reported |
| SEP Scheduled Completion Date: | Not reported |
| SEP Actual Date: | Not reported |
| SEP Defaulted Date: | Not reported |
| SEP Type: | Not reported |
| SEP Type Description: | Not reported |
| Proposed Amount: | Not reported |
| Final Monetary Amount: | Not reported |
| Paid Amount: | Not reported |
| Final Count: | Not reported |
| Final Amount: | Not reported |

| | |
|---|---|
| Found Violation: | No |
| Agency Which Determined Violation: | Not reported |
| Violation Short Description: | Not reported |
| Date Violation was Determined: | Not reported |
| Actual Return to Compliance Date: | Not reported |
| Return to Compliance Qualifier: | Not reported |
| Violation Responsible Agency: | Not reported |
| Scheduled Compliance Date: | Not reported |
| Enforcement Identifier: | Not reported |
| Date of Enforcement Action: | Not reported |
| Enforcement Responsible Agency: | Not reported |
| Enforcement Docket Number: | Not reported |
| Enforcement Attorney: | Not reported |
| Corrective Action Component: | Not reported |
| Appeal Initiated Date: | Not reported |
| Appeal Resolution Date: | Not reported |
| Disposition Status Date: | Not reported |
| Disposition Status: | Not reported |
| Disposition Status Description: | Not reported |
| Consent/Final Order Sequence Number: | Not reported |
| Consent/Final Order Respondent Name: | Not reported |

**CVS PHARMACY #9862 (Continued)** **1015740467**

| | |
|---|---|
| Consent/Final Order Lead Agency: | Not reported |
| Enforcement Type: | Not reported |
| Enforcement Responsible Person: | Not reported |
| Enforcement Responsible Sub-Organization: | Not reported |
| SEP Sequence Number: | Not reported |
| SEP Expenditure Amount: | Not reported |
| SEP Scheduled Completion Date: | Not reported |
| SEP Actual Date: | Not reported |
| SEP Defaulted Date: | Not reported |
| SEP Type: | Not reported |
| SEP Type Description: | Not reported |
| Proposed Amount: | Not reported |
| Final Monetary Amount: | Not reported |
| Paid Amount: | Not reported |
| Final Count: | Not reported |
| Final Amount: | Not reported |

| | |
|---|---|
| Found Violation: | No |
| Agency Which Determined Violation: | Not reported |
| Violation Short Description: | Not reported |
| Date Violation was Determined: | Not reported |
| Actual Return to Compliance Date: | Not reported |
| Return to Compliance Qualifier: | Not reported |
| Violation Responsible Agency: | Not reported |
| Scheduled Compliance Date: | Not reported |
| Enforcement Identifier: | Not reported |
| Date of Enforcement Action: | Not reported |
| Enforcement Responsible Agency: | Not reported |
| Enforcement Docket Number: | Not reported |
| Enforcement Attorney: | Not reported |
| Corrective Action Component: | Not reported |
| Appeal Initiated Date: | Not reported |
| Appeal Resolution Date: | Not reported |
| Disposition Status Date: | Not reported |
| Disposition Status: | Not reported |
| Disposition Status Description: | Not reported |
| Consent/Final Order Sequence Number: | Not reported |
| Consent/Final Order Respondent Name: | Not reported |
| Consent/Final Order Lead Agency: | Not reported |
| Enforcement Type: | Not reported |
| Enforcement Responsible Person: | Not reported |
| Enforcement Responsible Sub-Organization: | Not reported |
| SEP Sequence Number: | Not reported |
| SEP Expenditure Amount: | Not reported |
| SEP Scheduled Completion Date: | Not reported |
| SEP Actual Date: | Not reported |
| SEP Defaulted Date: | Not reported |
| SEP Type: | Not reported |
| SEP Type Description: | Not reported |
| Proposed Amount: | Not reported |
| Final Monetary Amount: | Not reported |
| Paid Amount: | Not reported |
| Final Count: | Not reported |
| Final Amount: | Not reported |

| | |
|---|---|
| Found Violation: | Yes |
| Agency Which Determined Violation: | State |

**CVS PHARMACY #9862 (Continued)** **1015740467**

Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 2017-10-03 00:00:00.0
Actual Return to Compliance Date: 2017-11-22 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 2017-11-02 00:00:00.0
Enforcement Identifier: 601
Date of Enforcement Action: 2017-10-03 00:00:00.0
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

Evaluation Action Summary:
Evaluation Date: 2018-10-05 00:00:00.0
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 2017-10-03 00:00:00.0
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 2017-11-22 00:00:00.0

**CVS PHARMACY #9862 (Continued)** **1015740467**

| | |
|---|---|
| Scheduled Compliance Date: | 2017-11-02 00:00:00.0 |
| Date of Request: | Not reported |
| Date Response Received: | Not reported |
| Request Agency: | Not reported |
| Former Citation: | Not reported |
| | |
| Evaluation Date: | 2016-10-18 00:00:00.0 |
| Evaluation Responsible Agency: | State |
| Found Violation: | No |
| Evaluation Type Description: | COMPLIANCE EVALUATION INSPECTION ON-SITE |
| Evaluation Responsible Person Identifier: | Not reported |
| Evaluation Responsible Sub-Organization: | Not reported |
| Actual Return to Compliance Date: | Not reported |
| Scheduled Compliance Date: | Not reported |
| Date of Request: | Not reported |
| Date Response Received: | Not reported |
| Request Agency: | Not reported |
| Former Citation: | Not reported |
| | |
| Evaluation Date: | 2018-06-13 00:00:00.0 |
| Evaluation Responsible Agency: | State |
| Found Violation: | No |
| Evaluation Type Description: | COMPLIANCE EVALUATION INSPECTION ON-SITE |
| Evaluation Responsible Person Identifier: | Not reported |
| Evaluation Responsible Sub-Organization: | Not reported |
| Actual Return to Compliance Date: | Not reported |
| Scheduled Compliance Date: | Not reported |
| Date of Request: | Not reported |
| Date Response Received: | Not reported |
| Request Agency: | Not reported |
| Former Citation: | Not reported |
| | |
| Evaluation Date: | 2017-11-22 00:00:00.0 |
| Evaluation Responsible Agency: | State |
| Found Violation: | No |
| Evaluation Type Description: | COMPLIANCE EVALUATION INSPECTION ON-SITE |
| Evaluation Responsible Person Identifier: | Not reported |
| Evaluation Responsible Sub-Organization: | Not reported |
| Actual Return to Compliance Date: | Not reported |
| Scheduled Compliance Date: | Not reported |
| Date of Request: | Not reported |
| Date Response Received: | Not reported |
| Request Agency: | Not reported |
| Former Citation: | Not reported |
| | |
| Evaluation Date: | 2015-10-13 00:00:00.0 |
| Evaluation Responsible Agency: | State |
| Found Violation: | No |
| Evaluation Type Description: | COMPLIANCE EVALUATION INSPECTION ON-SITE |
| Evaluation Responsible Person Identifier: | Not reported |
| Evaluation Responsible Sub-Organization: | Not reported |
| Actual Return to Compliance Date: | Not reported |
| Scheduled Compliance Date: | Not reported |
| Date of Request: | Not reported |
| Date Response Received: | Not reported |
| Request Agency: | Not reported |
| Former Citation: | Not reported |

**CVS PHARMACY #9862 (Continued)** **1015740467**

| | |
|---|---|
| Evaluation Date: | 2014-10-01 00:00:00.0 |
| Evaluation Responsible Agency: | State |
| Found Violation: | No |
| Evaluation Type Description: | COMPLIANCE EVALUATION INSPECTION ON-SITE |
| Evaluation Responsible Person Identifier: | Not reported |
| Evaluation Responsible Sub-Organization: | Not reported |
| Actual Return to Compliance Date: | Not reported |
| Scheduled Compliance Date: | Not reported |
| Date of Request: | Not reported |
| Date Response Received: | Not reported |
| Request Agency: | Not reported |
| Former Citation: | Not reported |

| | |
|---|---|
| Evaluation Date: | 2017-10-03 00:00:00.0 |
| Evaluation Responsible Agency: | State |
| Found Violation: | Yes |
| Evaluation Type Description: | COMPLIANCE EVALUATION INSPECTION ON-SITE |
| Evaluation Responsible Person Identifier: | Not reported |
| Evaluation Responsible Sub-Organization: | Not reported |
| Actual Return to Compliance Date: | 2017-11-22 00:00:00.0 |
| Scheduled Compliance Date: | 2017-11-02 00:00:00.0 |
| Date of Request: | Not reported |
| Date Response Received: | Not reported |
| Request Agency: | Not reported |
| Former Citation: | Not reported |

FINDS:
Registry ID: 110055805696

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
HAZARDOUS WASTE BIENNIAL REPORTER
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

| | |
|---|---|
| Envid: | 1015740467 |
| Registry ID: | 110055805696 |
| DFR URL: | http://echo.epa.gov/detailed-facility-report?fid=110055805696 |
| Name: | CVS PHARMACY #9862 |
| Address: | 257 MOUNT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |

**B10** **CVS PHARMACY #9862** **RCRA-LQG** **1016954619**
**NE** **257 MOUNT HERMON RD** **CAL000357695**
**< 1/8** **SCOTTS VALLEY, CA 95066**
**0.013 mi.**
**67 ft.** **Site 3 of 4 in cluster B**

**Relative:** **Lower**
**Actual:** **508 ft.**

RCRA-LQG:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 2014-03-01 00:00:00.0 |
| Handler Name: | CVS PHARMACY #9862 | |
| Handler Address: | | 257 MOUNT HERMON RD |
| Handler City,State,Zip: | | SCOTTS VALLEY, CA 95066 |
| EPA ID: | | CAL000357695 |
| Contact Name: | | WENDY L BRANT |
| Contact Address: | | CVS DR |
| Contact City,State,Zip: | | WOONSOCKET, RI 02895 |
| Contact Telephone: | | 401-770-7457 |
| Contact Fax: | | Not reported |
| Contact Email: | | WENDY.BRANT@CVSCAREMARK.COM |
| Contact Title: | | CORPORATE ENVIR MGR |
| EPA Region: | | 09 |
| Land Type: | | Private |
| Federal Waste Generator Description: | | Large Quantity Generator |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | 2013 |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Handler Activities |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | CVS DR |
| Mailing City,State,Zip: | | WOONSOCKET, RI 02895 |
| Owner Name: | | SCOTTS VALLEY PLAZA |
| Owner Type: | | Private |
| Operator Name: | | LONGS DRUG STORES CALIFORNIA LLC |
| Operator Type: | | Private |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |
| Underground Injection Control: | | No |
| Off-Site Waste Receipt: | | No |
| Universal Waste Indicator: | | No |
| Universal Waste Destination Facility: | | No |
| Federal Universal Waste: | | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Handler: | | --- |
| Federal Facility Indicator: | | Not reported |
| Hazardous Secondary Material Indicator: | | NN |
| Sub-Part K Indicator: | | Not reported |
| Commercial TSD Indicator: | | No |
| Treatment Storage and Disposal Type: | | Not reported |
| 2018 GPRA Permit Baseline: | | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | | Not on the Baseline |
| Permit Renewals Workload Universe: | | Not reported |

**CVS PHARMACY #9862 (Continued)** **1016954619**

| | |
|---|---|
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2014-11-20 17:13:31.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | Not reported |
| Manifest Broker: | Not reported |
| Sub-Part P Indicator: | Not reported |

Biennial: List of Years
Year: 2013

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:

| | |
|---|---|
| Waste Code: | D001 |
| Waste Description: | IGNITABLE WASTE |
| Waste Code: | D002 |
| Waste Description: | CORROSIVE WASTE |
| Waste Code: | D004 |
| Waste Description: | ARSENIC |
| Waste Code: | D005 |
| Waste Description: | BARIUM |
| Waste Code: | D006 |
| Waste Description: | CADMIUM |
| Waste Code: | D007 |
| Waste Description: | CHROMIUM |
| Waste Code: | D008 |

**CVS PHARMACY #9862 (Continued)** **1016954619**

| | |
|---|---|
| Waste Description: | LEAD |
| Waste Code: | D009 |
| Waste Description: | MERCURY |
| Waste Code: | D010 |
| Waste Description: | SELENIUM |
| Waste Code: | D011 |
| Waste Description: | SILVER |
| Waste Code: | D016 |
| Waste Description: | 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID) |
| Waste Code: | D018 |
| Waste Description: | BENZENE |
| Waste Code: | D024 |
| Waste Description: | M-CRESOL |
| Waste Code: | D027 |
| Waste Description: | 1,4-DICHLOROBENZENE |
| Waste Code: | D035 |
| Waste Description: | METHYL ETHYL KETONE |
| Waste Code: | D039 |
| Waste Description: | TETRACHLOROETHYLENE |
| Waste Code: | P001 |
| Waste Description: | 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% |
| Waste Code: | P012 |
| Waste Description: | ARSENIC OXIDE AS2O3 (OR) ARSENIC TRIOXIDE |
| Waste Code: | P075 |
| Waste Description: | NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS |
| Waste Code: | P081 |
| Waste Description: | 1,2,3-PROPANETRIOL, TRINITRATE (R) (OR) NITROGLYCERINE (R) |
| Waste Code: | P188 |
| Waste Description: | BENZOIC ACID, 2-HYDROXY-, COMPD. WITH (3AS-CIS)-1,2,3,3A,8,8A-HEXAHYDRO-1,3A,8-TRIMETHYLPYRROLO[2,3-B]INDOL-5-YL METHYLCARBAMATE ESTER (1:1) (OR) PHYSOSTIGMINE SALICYLATE |
| Waste Code: | U002 |
| Waste Description: | 2-PROPANONE (I) (OR) ACETONE (I) |
| Waste Code: | U010 |
| Waste Description: | AZIRINO [2',3':3,4]PYRROLO[1,2-A]INDOLE-4,7-DIONE, 6-AMINO-8-[[(AMINOCARBONYL)OXY]METHYL]-1,1A,2,8,8A,8B-HEXAHYDRO-8A-METHOXY-5-METHYL-, [1AS-(1AALPHA, 8BETA, 8AALPHA, 8BALPHA)]- (OR) MITOMYCIN C |

**CVS PHARMACY #9862 (Continued)** **1016954619**

Waste Code: U031
Waste Description: 1-BUTANOL (I) (OR) N-BUTYL ALCOHOL (I)

Waste Code: U034
Waste Description: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

Waste Code: U035
Waste Description: BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) CHLORAMBUCIL

Waste Code: U044
Waste Description: CHLOROFORM (OR) METHANE, TRICHLORO-

Waste Code: U058
Waste Description: 2H-1,3,2-OXAZAPHOSPHORIN-2-AMINE, N,N-BIS(2-CHLOROETHYL)TETRAHYDRO-, 2-OXIDE (OR) CYCLOPHOSPHAMIDE

Waste Code: U059
Waste Description: 5,12-NAPHTHACENEDIONE, 8-ACETYL-10-[(3-AMINO-2,3,6-TRIDEOXY)-ALPHA-L-LYXO-HEXOPYRANOSYL)OXY]-7,8,9,10-TETRAHYDRO-6,8,11-TRIHYDROXY-1-METHOXY-, (8S-CIS)- (OR) DAUNOMYCIN

Waste Code: U070
Waste Description: BENZENE, 1,2-DICHLORO- (OR) O-DICHLOROBENZENE

Waste Code: U072
Waste Description: BENZENE, 1,4-DICHLORO- (OR) P-DICHLOROBENZENE

Waste Code: U089
Waste Description: DIETHYLSTILBESTEROL (OR) PHENOL, 4,4'-(1,2-DIETHYL-1,2-ETHENEDIYL)BIS, (E)-

Waste Code: U122
Waste Description: FORMALDEHYDE

Waste Code: U129
Waste Description: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA, 2ALPHA, 3BETA, 4ALPHA, 5ALPHA, 6BETA)- (OR) LINDANE

Waste Code: U132
Waste Description: HEXACHLOROPHENE (OR) PHENOL, 2,2'-METHYLENEBIS[3,4,6-TRICHLORO-

Waste Code: U150
Waste Description: L-PHENYLALANINE, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) MELPHALAN

Waste Code: U151
Waste Description: MERCURY

Waste Code: U154
Waste Description: METHANOL (I) (OR) METHYL ALCOHOL (I)

Waste Code: U165
Waste Description: NAPHTHALENE

Waste Code: U188
Waste Description: PHENOL

**CVS PHARMACY #9862 (Continued)** **1016954619**

Waste Code: U200
Waste Description: RESERPINE (OR) YOHIMBAN-16-CARBOXYLIC ACID, 11,17-DIMETHOXY-18-[(3,4,5-TRIMETHOXYBENZOYL)OXY]-, METHYL ESTER, (3BETA, 16BETA, 17ALPHA, 18BETA, 20ALPHA)-

Waste Code: U201
Waste Description: 1,3-BENZENEDIOL (OR) RESORCINOL

Waste Code: U204
Waste Description: SELENIOUS ACID (OR) SELENIUM DIOXIDE

Waste Code: U205
Waste Description: SELENIUM SULFIDE (OR) SELENIUM SULFIDE SES2 (R,T)

Waste Code: U206
Waste Description: D-GLUCOSE, 2-DEOXY-2-[[(METHYLNITROSOAMINO)-CARBONYL]AMINO]- (OR) GLUCOPYRANOSE, 2-DEOXY-2-(3-METHYL-3-NITROSOUREIDO)-,D- (OR) STREPTOZOTOCIN

Waste Code: U210
Waste Description: ETHENE, TETRACHLORO- (OR) TETRACHLOROETHYLENE

Waste Code: U279
Waste Description: U279

Waste Code: U411
Waste Description: U411

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: LONGS DRUG STORES CALIFORNIA LLC
Legal Status: Private
Date Became Current: 2008-10-22 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: ONE CVS DR
Owner/Operator City,State,Zip: WOONSOCKET, RI 02895
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: SCOTTS VALLEY PLAZA
Legal Status: Private
Date Became Current: 1982-03-04 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 1606 N MAIN ST
Owner/Operator City,State,Zip: SALINAS, CA 93906
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: 2014-03-01 00:00:00.0
Handler Name: CVS PHARMACY #9862

**CVS PHARMACY #9862 (Continued)** **1016954619**

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: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 44611
NAICS Description: PHARMACIES AND DRUG STORES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

---

**B11** **CVS PHARMACY #9862** **CUPA Listings** **S120050139**
**NE** **257 MOUNT HERMON RD** **N/A**
**< 1/8** **SCOTTS VALLEY, CA 95066**
**0.013 mi.**
**67 ft.** **Site 4 of 4 in cluster B**

**Relative:** **Lower**
**Actual:** **508 ft.**

CUPA SANTA CRUZ:
Name: CVS PHARMACY #9862
Address: 257 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0003134
Cross Street: SCOTTS VALLEY DR
Description: HMMP STANDARD FORM FILING FEE

Name: CVS PHARMACY #9862
Address: 257 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0003134
Cross Street: SCOTTS VALLEY DR
Description: HAZARDOUS WASTE GENERATOR (RCRA-LQG)

---

**C12** **SKYPARK AIRPORT** **ENVIROSTOR** **S101482434**
**NNE** **400 MT HERMAN ROAD** **N/A**
**< 1/8** **SCOTTS VALLEY, CA 95066**
**0.016 mi.**
**82 ft.** **Site 1 of 19 in cluster C**

**Relative:** **Lower**
**Actual:** **508 ft.**

ENVIROSTOR:
Name: SKYPARK AIRPORT
Address: 400 MT HERMAN ROAD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility ID: 44450002
Status: Refer: RWQCB

**SKYPARK AIRPORT (Continued)** **S101482434**

Status Date: 12/07/1989
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley
Assembly: 29
Senate: 17
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.04725
Longitude: -122.0306
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD053997136
Alias Type: EPA Identification Number
Alias Name: 44450002
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 12/07/1989
Comments: FACILITY IDENTIFIED EPA FIT SCREENING SITE INSPECTION EPA'S REASSESSMENT OF SCREENING SITE INSPECTION RECOMMENDS NO FURTHER ACTION STATE RECOMMENDATION IS SITE SCREENING. SITE IS A POTENTIAL CONTRIBUTOR OF CONTAMINATION TO THE FEDERALLY-DESIGNAT- ED SANTA MARGARITA SOLE SOURCE AQUIFER.

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

**13**
**SSW**
**< 1/8**
**0.032 mi.**
**167 ft.**

**HOODS JAMIE SPEEDMACHINE**
**163 ESTRELLA RD**
**SCOTTS VALLEY, CA 95066**

**SEMS-ARCHIVE**

**1003878802**
**CAD980893473**

**Relative:**
**Higher**

**Actual:**
**586 ft.**

SEMS Archive:

| | |
|---|---|
| Site ID: | 0902235 |
| EPA ID: | CAD980893473 |
| Name: | HOODS JAMIE SPEEDMACHINE |
| Address: | 163 ESTRELLA RD |
| Address 2: | Not reported |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Cong District: | 16 |
| FIPS Code: | 06087 |
| 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: | 0902235 |
| EPA ID: | CAD980893473 |
| Site Name: | HOODS JAMIE SPEEDMACHINE |
| NPL: | N |
| FF: | N |
| OU: | 00 |
| Action Code: | VS |
| Action Name: | ARCH SITE |
| SEQ: | 1 |
| Start Date: | Not reported |
| Finish Date: | 1989-11-08 05:00:00 |
| Qual: | Not reported |
| Current Action Lead: | EPA Perf In-Hse |

| | |
|---|---|
| Region: | 09 |
| Site ID: | 0902235 |
| EPA ID: | CAD980893473 |
| Site Name: | HOODS JAMIE SPEEDMACHINE |
| NPL: | N |
| FF: | N |
| OU: | 00 |
| Action Code: | SI |
| Action Name: | SI |
| SEQ: | 2 |
| Start Date: | Not reported |
| Finish Date: | 1989-11-08 05:00:00 |
| Qual: | N |
| Current Action Lead: | EPA Perf |

| | |
|---|---|
| Region: | 09 |
| Site ID: | 0902235 |
| EPA ID: | CAD980893473 |
| Site Name: | HOODS JAMIE SPEEDMACHINE |
| NPL: | N |
| FF: | N |
| OU: | 00 |
| Action Code: | DS |
| Action Name: | DISCVRY |
| SEQ: | 1 |

**HOODS JAMIE SPEEDMACHINE (Continued)** **1003878802**

| | |
|---|---|
| Start Date: | 1985-07-01 05:00:00 |
| Finish Date: | 1985-07-01 05:00:00 |
| Qual: | Not reported |
| Current Action Lead: | EPA Perf |
| | |
| Region: | 09 |
| Site ID: | 0902235 |
| EPA ID: | CAD980893473 |
| Site Name: | HOODS JAMIE SPEEDMACHINE |
| NPL: | N |
| FF: | N |
| OU: | 00 |
| Action Code: | SI |
| Action Name: | SI |
| SEQ: | 1 |
| Start Date: | Not reported |
| Finish Date: | 1985-09-01 05:00:00 |
| Qual: | H |
| Current Action Lead: | EPA Perf |
| | |
| Region: | 09 |
| Site ID: | 0902235 |
| EPA ID: | CAD980893473 |
| Site Name: | HOODS JAMIE SPEEDMACHINE |
| NPL: | N |
| FF: | N |
| OU: | 00 |
| Action Code: | PA |
| Action Name: | PA |
| SEQ: | 1 |
| Start Date: | Not reported |
| Finish Date: | 1985-09-01 05:00:00 |
| Qual: | L |
| Current Action Lead: | EPA Perf |

---

**C14** **SCOTTS VALLEY CLEANER** **RCRA-SQG** **1000422070**
**NNE** **272 "A" MT HERMON ROAD** **CAD982472847**
**< 1/8** **SCOTTS VALLEY, CA 95060**
**0.032 mi.**
**171 ft.** **Site 2 of 19 in cluster C**

**Relative:** RCRA-SQG:
**Lower**

| | | |
|---|---|---|
| Date Form Received by Agency: | | 1988-05-31 00:00:00.0 |
| **Actual:** Handler Name: | SCOTTS VALLEY CLEANER | |
| **502 ft.** Handler Address: | | 272 "A" MT HERMON ROAD |
| Handler City,State,Zip: | | SCOTTS VALLEY, CA 95060 |
| EPA ID: | | CAD982472847 |
| Contact Name: | | ENVIRONMENTAL MANAGER |
| Contact Address: | | 272 "A" MT HERMON ROAD |
| Contact City,State,Zip: | | SCOTTS VALLEY, CA 95060 |
| Contact Telephone: | | 408-438-4671 |
| 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 |

**SCOTTS VALLEY CLEANER (Continued)** **1000422070**

| | |
|---|---|
| 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: | 272 "A" MT HERMON ROAD |
| Mailing City,State,Zip: | SCOTTS VALLEY, CA 95060 |
| Owner Name: | JINIL KU & YNUG KU |
| Owner Type: | Private |
| Operator Name: | NOT REQUIRED |
| Operator Type: | Private |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | NN |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |

**SCOTTS VALLEY CLEANER (Continued)** **1000422070**

| | |
|---|---|
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2002-06-27 03:34:08.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | Not reported |
| Manifest Broker: | Not reported |
| Sub-Part P Indicator: | Not reported |

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: | JINIL KU & YNUG KU |
| 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: | 1988-05-31 00:00:00.0 |
| Handler Name: SCOTTS VALLEY CLEANER | |
| 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: | 81232 |
| NAICS Description: | DRYCLEANING AND LAUNDRY SERVICES (EXCEPT COIN-OPERATED) |

**SCOTTS VALLEY CLEANER (Continued)** **1000422070**

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

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**D15** **SAFEWAY 300** **RCRA-VSQG** **1016452976**
**ENE** **253 MT HERMON RD** **FINDS** **CAR000243576**
**< 1/8** **SCOTTS VALLEY, CA 95066**
**0.035 mi.**
**185 ft.** **Site 1 of 10 in cluster D**

**Relative:** **Lower**
**Actual:** **512 ft.**

RCRA-VSQG:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 2019-06-21 00:00:00.0 |
| Handler Name: | SAFEWAY 300 | |
| Handler Address: | | 253 MT HERMON RD |
| Handler City,State,Zip: | | SCOTTS VALLEY, CA 95066 |
| EPA ID: | | CAR000243576 |
| Contact Name: | | SHARON SANGER |
| Contact Address: | | E PARKCENTER BLVD |
| Contact City,State,Zip: | | BOISE, ID 83706 |
| Contact Telephone: | | 208-395-6150 |
| Contact Fax: | | Not reported |
| Contact Email: | | SHARON.SANGER@ALBERTSONS.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Private |
| Federal Waste Generator Description: | | Conditionally Exempt 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: | | E PARKCENTER BLVD |
| Mailing City,State,Zip: | | BOISE, ID 83706 |
| Owner Name: | | SCOTTS VILLAGE LLC |
| Owner Type: | | Private |
| Operator Name: | | SAFEWAY INC |
| Operator Type: | | Private |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |
| Underground Injection Control: | | No |
| Off-Site Waste Receipt: | | No |
| Universal Waste Indicator: | | No |
| Universal Waste Destination Facility: | | No |
| Federal Universal Waste: | | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | | Not reported |

**SAFEWAY 300 (Continued)** **1016452976**

| | |
|---|---|
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2019-06-27 15:16:54.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Hazardous Waste Summary:

| | |
|---|---|
| Waste Code: | D001 |
| Waste Description: | IGNITABLE WASTE |
| Waste Code: | D002 |
| Waste Description: | CORROSIVE WASTE |
| Waste Code: | D007 |
| Waste Description: | CHROMIUM |
| Waste Code: | D010 |
| Waste Description: | SELENIUM |
| Waste Code: | D011 |
| Waste Description: | SILVER |

**SAFEWAY 300 (Continued)** **1016452976**

Waste Code: D018
Waste Description: BENZENE

Waste Code: D035
Waste Description: METHYL ETHYL KETONE

Waste Code: P075
Waste Description: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

Waste Code: U001
Waste Description: ACETALDEHYDE (I) (OR) ETHANAL (I)

Waste Code: U154
Waste Description: METHANOL (I) (OR) METHYL ALCOHOL (I)

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: SAFEWAY
Legal Status: Private
Date Became Current: 1983-10-08 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: SAFEWAY INC
Legal Status: Private
Date Became Current: 1983-10-08 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 250 E PARKCENTER BLVD
Owner/Operator City,State,Zip: BOISE, ID 83706
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: SCOTTS VILLAGE LLC
Legal Status: Private
Date Became Current: 1983-01-01 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 1606 N MAIN ST
Owner/Operator City,State,Zip: SALINAS, CA 93906
Owner/Operator Telephone: 831-449-6722
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: SCOTTS VALLEY PLAZA
Legal Status: Private
Date Became Current: 1983-01-01 00:00:00.

**SAFEWAY 300 (Continued)** **1016452976**

Date Ended Current: Not reported
Owner/Operator Address: 1606 N MAIN ST
Owner/Operator City,State,Zip: SALINAS, CA 93906
Owner/Operator Telephone: 831-449-6722
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2014-01-15 00:00:00.0
Handler Name: SAFEWAY STORE NO 300
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: 2019-06-21 00:00:00.0
Handler Name: SAFEWAY 300
Federal Waste Generator Description: Conditionally Exempt 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: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 44511
NAICS Description: SUPERMARKETS AND OTHER GROCERY (EXCEPT CONVENIENCE) STORES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110057071403

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport,

**SAFEWAY 300 (Continued)** **1016452976**

and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

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**D16** **SAFEWAY STORE #300** **CERS HAZ WASTE** **S113158870**
**ENE** **253 MOUNT HERMON RD** **CUPA Listings** **N/A**
**< 1/8** **SCOTTS VALLEY, CA 95066** **HAZNET**
**0.035 mi.** **CERS**
**185 ft.** **Site 2 of 10 in cluster D** **HWTS**

**Relative:**
**Lower**

**Actual:**
**512 ft.**

CERS HAZ WASTE:
Name: SAFEWAY 300
Address: 253 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Site ID: 63997
CERS ID: 10156793
CERS Description: Hazardous Waste Generator

CUPA SANTA CRUZ:
Name: SAFEWAY 300
Address: 253 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0007056
Cross Street: Not reported
Description: HMMP SHORT FORM BASE FEE

Name: SAFEWAY 300
Address: 253 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0007056
Cross Street: Not reported
Description: HMMP SHORT FORM 1 HAZ CLASS

Name: SAFEWAY 300
Address: 253 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0007056
Cross Street: Not reported
Description: HAZARDOUS WASTE GENERATOR (HMMP SHORT FORM)

HAZNET:
Name: SAFEWAY STORE #300
Address: 253 MOUNT HERMON RD
Address 2: Not reported
City,State,Zip: SCOTTS VALLEY, CA 950664037
Contact: SHARON PLOUFFE
Telephone: 9252265097
Mailing Name: Not reported
Mailing Address: 5918 STONERIDGE MALL RD

Year: 2014
Gepaid: CAL000353643
TSD EPA ID: INR000110197
CA Waste Code: 122 - Alkaline solution without metals pH >= 12.5
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No

**SAFEWAY STORE #300 (Continued)** **S113158870**

| | |
|---|---|
| | Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.0215 |
| | |
| Year: | 2014 |
| Gepaid: | CAL000353643 |
| TSD EPA ID: | INR000110197 |
| 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: | 0.007 |
| | |
| Year: | 2014 |
| Gepaid: | CAL000353643 |
| TSD EPA ID: | INR000110197 |
| 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: | 0.0005 |
| | |
| Year: | 2014 |
| Gepaid: | CAL000353643 |
| TSD EPA ID: | INR000110197 |
| CA Waste Code: | 561 - Detergent waste chemicals |
| Disposal Method: | - |
| Tons: | 0.053 |
| | |
| Year: | 2013 |
| Gepaid: | CAL000353643 |
| TSD EPA ID: | INR000110197 |
| 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: | 0.005 |
| | |
| Year: | 2013 |
| Gepaid: | CAL000353643 |
| TSD EPA ID: | INR000110197 |
| 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: | 0.0015 |
| | |
| Year: | 2013 |
| Gepaid: | CAL000353643 |
| TSD EPA ID: | INR000110197 |
| 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: | 0.066 |
| | |
| Year: | 2013 |
| Gepaid: | CAL000353643 |
| TSD EPA ID: | INR000110197 |
| CA Waste Code: | 791 - Liquids with pH <= 2 |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.0675 |

**SAFEWAY STORE #300 (Continued)** **S113158870**

| | |
|---|---|
| Year: | 2013 |
| Gepaid: | CAL000353643 |
| TSD EPA ID: | INR000110197 |
| CA Waste Code: | 561 - Detergent waste chemicals |
| Disposal Method: | - |
| Tons: | 0.115 |

| | |
|---|---|
| Year: | 2012 |
| Gepaid: | CAL000353643 |
| TSD EPA ID: | INR000110197 |
| 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: | 0.0005 |

Click this hyperlink while viewing on your computer to access
4 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

| | |
|---|---|
| Year: | 2012 |
| Gen EPA ID: | CAL000353643 |
| Shipment Date: | 20120601 |
| Creation Date: | 5/31/2013 22:15:16 |
| Receipt Date: | 20120716 |
| Manifest ID: | 005422075FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANS |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | P075 |
| 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: | 20120601 |
| Creation Date: | 5/31/2013 22:15:16 |
| Receipt Date: | 20120716 |
| Manifest ID: | 005422075FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANS |
| TSDF EPA ID: | INR000110197 |

**SAFEWAY STORE #300 (Continued)** **S113158870**

| | |
|---|---|
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 561 - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.095 |
| Waste Quantity: | 190 |
| 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: | 20120601 |
| Creation Date: | 5/31/2013 22:15:16 |
| Receipt Date: | 20120716 |
| Manifest ID: | 005422075FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANS |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 131 - Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.013 |
| Waste Quantity: | 26 |
| 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: | 2011 |
| Gen EPA ID: | CAL000353643 |
| | |
| Shipment Date: | 20110513 |
| Creation Date: | 11/12/2011 18:30:11 |
| Receipt Date: | 20110601 |
| Manifest ID: | 004509319FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAD982492399 |
| Trans 2 Name: | ALL CHEMICAL DISPOSAL INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |

**SAFEWAY STORE #300 (Continued)** **S113158870**

| | |
|---|---|
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.0635 |
| Waste Quantity: | 127 |
| 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: | 20110513 |
| Creation Date: | 11/12/2011 18:30:11 |
| Receipt Date: | 20110606 |
| Manifest ID: | 004509318FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAD982492399 |
| Trans 2 Name: | ALL CHEMICAL DISPOSAL INC |
| TSDF EPA ID: | OHD083377010 |
| Trans Name: | ENVIRONMENTAL ENTERPRISES INC |
| TSDF Alt EPA ID: | Not reported |
| 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: | - Not reported |
| Quantity Tons: | 0.004 |
| Waste Quantity: | 8 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2014 |
| Gen EPA ID: | CAL000353643 |
| | |
| Shipment Date: | 20140106 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 006231776FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.0035 |

**SAFEWAY STORE #300 (Continued)** **S113158870**

| | |
|---|---|
| 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: | 20140106 |
| Creation Date: | 6/6/2014 22:15:25 |
| Receipt Date: | 20140117 |
| Manifest ID: | 006231776FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | P075 |
| 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: | 20140106 |
| Creation Date: | 6/6/2014 22:15:25 |
| Receipt Date: | 20140117 |
| Manifest ID: | 006231776FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 561 - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.053 |
| Waste Quantity: | 106 |
| 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 |

**SAFEWAY STORE #300 (Continued)** **S113158870**

| | |
|---|---|
| Shipment Date: | 20140106 |
| Creation Date: | 6/6/2014 22:15:25 |
| Receipt Date: | 20140117 |
| Manifest ID: | 006231776FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 122 - Alkaline solution without metals (pH > 12.5 |
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0215 |
| Waste Quantity: | 43 |
| 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: | 20140106 |
| Creation Date: | 6/6/2014 22:15:25 |
| Receipt Date: | 20140117 |
| Manifest ID: | 006231776FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.007 |
| Waste Quantity: | 14 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2013 |
| Gen EPA ID: | CAL000353643 |

| | |
|---|---|
| Shipment Date: | 20131008 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |

**SAFEWAY STORE #300 (Continued)** **S113158870**

| | |
|---|---|
| Manifest ID: | 005894309FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.0085 |
| Waste Quantity: | 17 |
| 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: | 20131008 |
| Creation Date: | 3/21/2014 22:15:03 |
| Receipt Date: | 20131025 |
| Manifest ID: | 005894309FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 561 - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.115 |
| Waste Quantity: | 230 |
| 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: | 20131008 |
| Creation Date: | 3/21/2014 22:15:03 |
| Receipt Date: | 20131025 |
| Manifest ID: | 005894309FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |

**SAFEWAY STORE #300 (Continued)** **S113158870**

| | |
|---|---|
| Waste Code Description: | 122 - Alkaline solution without metals (pH > 12.5 |
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 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: | 20131008 |
| Creation Date: | 3/21/2014 22:15:03 |
| Receipt Date: | 20131025 |
| Manifest ID: | 005894309FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | P075 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0015 |
| Waste Quantity: | 3 |
| 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: | 20131008 |
| Creation Date: | 3/21/2014 22:15:03 |
| Receipt Date: | 20131025 |
| Manifest ID: | 005894309FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0025 |
| Waste Quantity: | 5 |
| Quantity Unit: | P |

**SAFEWAY STORE #300 (Continued)** **S113158870**

| | |
|---|---|
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20131008 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005894309FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 561 - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.008 |
| Waste Quantity: | 16 |
| 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: | 20130603 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005894062FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 561 - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.122 |
| Waste Quantity: | 244 |
| 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: | 20130603 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |

**SAFEWAY STORE #300 (Continued)** **S113158870**

| | |
|---|---|
| Manifest ID: | 005894062FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.001 |
| Waste Quantity: | 2 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20130603 |
| Creation Date: | 10/17/2013 22:15:18 |
| Receipt Date: | 20130625 |
| Manifest ID: | 005894062FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| 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: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0675 |
| Waste Quantity: | 135 |
| 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: | 20130603 |
| Creation Date: | 10/17/2013 22:15:18 |
| Receipt Date: | 20130625 |
| Manifest ID: | 005894062FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |

**SAFEWAY STORE #300 (Continued)** **S113158870**

TSDF Alt Name: Not reported
Waste Code Description: 214 - Unspecified solvent mixture
RCRA Code: D001
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.0025
Waste Quantity: 5
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

CERS:
Name: SAFEWAY 300
Address: 253 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Site ID: 63997
CERS ID: 10156793
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 63997
Site Name: Safeway 300
Violation Date: 06-05-2014
Citation: 19 CCR 4 2729.2(a)(3) - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.2(a)(3)
Violation Description: Failure to complete and/or submit an annotated site map if required by CUPA.
Violation Notes: Returned to compliance on 06/09/2014.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 63997
Site Name: Safeway 300
Violation Date: 06-05-2014
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 06/12/2014.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 63997
Site Name: Safeway 300
Violation Date: 06-05-2014
Citation: HSC 6.95 25510 - California Health and Safety Code, Chapter 6.95, Section(s) 25510
Violation Description: Failure to update hazardous material inventory within 30 days when one of the following occurs: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a

**SAFEWAY STORE #300 (Continued)** **S113158870**

| | |
|---|---|
| | previously undisclosed hazardous materials A change of business address, business ownership, or business name. |
| Violation Notes: | Returned to compliance on 06/09/2014. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HMRRP |
| Violation Source: | CERS |
| | |
| Site ID: | 63997 |
| Site Name: | Safeway 300 |
| Violation Date: | 06-07-2016 |
| Citation: | 40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii) |
| Violation Description: | Failure to ensure that all employees are thoroughly familiar with proper waste handling and emergency procedures, relevant to their responsibilities during normal facility operations and emergencies. |
| Violation Notes: | Returned to compliance on 03/28/2018. No record that hazardous waste containers are inspected weekly at a minimum. Inspect containers holding hazardous waste at a minimum weekly. An inspection log shows that inspections are conducted. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |
| | |
| Site ID: | 63997 |
| Site Name: | Safeway 300 |
| Violation Date: | 04-30-2019 |
| Citation: | 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f) |
| Violation Description: | Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date. |
| Violation Notes: | Returned to compliance on 04/30/2019. Container holding hazardous waste found with start of accumulation date older than one year and a universal waste container holding lamps with no start of accumulation date. The. containers were labeled during the inspection. Keep containers holding hazardous waste labeled as required by CCR-T22 |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |
| | |
| Site ID: | 63997 |
| Site Name: | Safeway 300 |
| Violation Date: | 04-30-2019 |
| Citation: | HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities. |
| Violation Notes: | Returned to compliance on 02/05/2020. Hazardous materials were found which are handled, stored and in regulated quantities in Santa Cruz County which should be included in the inventory. Include the buffer propane and the cleaning chemicals which are stored in quantities greater than 5 gallons in the inventory. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HMRRP |

**SAFEWAY STORE #300 (Continued)** **S113158870**

Violation Source: CERS

Evaluation:

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-02-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Andrew Parker, ICC Clerk.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-02-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Inspection authorized by Andrew Parker, ICC Clerk.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-28-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-28-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Rebecca Crawford, Store Director. Hazardous materials including pressurized gases and janitorial supplies are stored at levels requiring inclusion in the business plan. Add chemicals such as the pressurized gases and those janitorial supplies stored in quantities greater than stored in a home to the inventory within 30 days.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-30-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-30-2019
Violations Found: Yes
Eval Type: Routine done by local agency

**SAFEWAY STORE #300 (Continued)** **S113158870**

| | |
|---|---|
| Eval Notes: | Inspection authorized by Irene Stebbins, Assistant Director. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 06-05-2014 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 06-05-2014 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 06-07-2016 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Inspection authorized by store manager Bruce Williams. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 06-07-2016 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 06-17-2015 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 06-17-2015 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |

**SAFEWAY STORE #300 (Continued)** **S113158870**

Eval Source: CERS

Enforcement Action:
Site ID: 63997
Site Name: Safeway 300
Site Address: 253 MOUNT HERMON RD
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 06-05-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 63997
Site Name: Safeway 300
Site Address: 253 MOUNT HERMON RD
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 06-05-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 63997
Site Name: Safeway 300
Site Address: 253 MOUNT HERMON RD
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 06-07-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: PO Box 29096, MS 6515
Affiliation City: Phoenix
Affiliation State: AZ
Affiliation Country: Not reported
Affiliation Zip: 85038
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Ron Lee
Entity Title: Environmental Manager

**SAFEWAY STORE #300 (Continued)** **S113158870**

| | |
|---|---|
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | Safeway, Inc. |
| Entity Title: | Not reported |
| Affiliation Address: | 5918 Stoneridge Mall Rd. |
| Affiliation City: | Pleasanton |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94588 |
| Affiliation Phone: | (925) 469-7000 |
| | |
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | Safeway, Inc. |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | Ron Lee |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | CUPA District |
| Entity Name: | Santa Cruz County Environmental Health |
| Entity Title: | Not reported |
| Affiliation Address: | 701 Ocean Boulevard, Suite 312 |
| Affiliation City: | Santa Cruz |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95060 |
| Affiliation Phone: | (831) 454-2022 |
| | |
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | Ron Lee |
| Entity Title: | Not reported |
| Affiliation Address: | 5918 Stoneridge Mall Rd. |
| Affiliation City: | Pleasanton |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 94588 |
| Affiliation Phone: | Not reported |

**SAFEWAY STORE #300 (Continued)** **S113158870**

| | |
|---|---|
| Affiliation Type Desc: | Operator |
| Entity Name: | Safeway, Inc. |
| 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: | (925) 469-7000 |

HWTS:

| | |
|---|---|
| Name: | SAFEWAY STORE #300 |
| Address: | 253 MOUNT HERMON RD |
| Address 2: | Not reported |
| City,State,Zip: | SCOTTS VALLEY, CA 950664037 |
| EPA ID: | CAL000353643 |
| Inactive Date: | 03/14/2014 |
| Create Date: | 06/21/2010 |
| Last Act Date: | 07/01/2015 |
| Mailing Name: | Not reported |
| Mailing Address: | 5918 STONERIDGE MALL RD |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | PLEASANTON, CA 945883229 |
| Owner Name: | SAFEWAY INC |
| Owner Address: | 5918 STONERIDGE MALL RD |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | PLEASANTON, CA 945883229 |
| Contact Name: | SHARON PLOUFFE |
| Contact Address: | 5918 STONERIDGE MALL ROAD |
| Contact Address 2: | Not reported |
| City,State,Zip: | PLEASANTON, CA 94588 |

NAICS:

| | |
|---|---|
| EPA ID: | CAL000353643 |
| Create Date: | 2010-06-21 08:51:36.353 |
| NAICS Code: | 45291 |
| NAICS Description: | Warehouse Clubs and Superstores |
| Issued EPA ID Date: | 2010-06-21 08:51:36.35300 |
| Inactive Date: | 2014-03-14 00:00:00 |
| Facility Name: | SAFEWAY STORE #300 |
| Facility Address: | 253 MOUNT HERMON RD |
| Facility Address 2: | Not reported |
| Facility City: | SCOTTS VALLEY |
| Facility County: | Not reported |
| Facility State: | CA |
| Facility Zip: | 950664037 |

**C17** **7-ELEVEN INC. STORE #26525** **CUPA Listings** **S116598025**
**NNE** **274 MOUNT HERMON RD** **N/A**
**< 1/8** **SCOTTS VALLEY, CA 95066**
**0.040 mi.**
**210 ft.** **Site 3 of 19 in cluster C**

**Relative:** CUPA SANTA CRUZ:
**Lower**
Name: 7-ELEVEN INC. STORE #26525
**Actual:** Address: 274 MOUNT HERMON RD
**507 ft.** City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0007668
Cross Street: Not reported
Description: HMMP STANDARD FORM FILING FEE

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**C18** **SCOTTS VALLEY DRY CLEANER** **HIST CORTESE** **S105026568**
**NNE** **272 A MT HERMON** **N/A**
**< 1/8** **SCOTTS VALLEY, CA 95060**
**0.040 mi.**
**212 ft.** **Site 4 of 19 in cluster C**

**Relative:** HIST CORTESE:
**Lower**
edr_fname: SCOTTS VALLEY DRY CLEANER
**Actual:** edr_fadd1: 272 A MT HERMON
**512 ft.** City,State,Zip: SCOTTS VALLEY, CA 95060
Region: CORTESE
Facility County Code: 44
Reg By: WBC&D
Reg Id: 3 440001N13

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**C19** **SCOTTS VALLEY CLEANERS** **EDR Hist Cleaner** **1020082665**
**NNE** **272 A & B MT HERMON RD** **N/A**
**< 1/8** **SCOTTS VALLEY, CA 95066**
**0.043 mi.**
**227 ft.** **Site 5 of 19 in cluster C**

**Relative:** EDR Hist Cleaner
**Lower**

**Actual:**
**512 ft.**

| Year: | Name: | Type: |
|---|---|---|
| 1987 | SCOTTS VALLEY CLEANERS | Drycleaning Plants, Except Rugs |
| 1988 | SCOTTS VALLEY CLEANERS | Drycleaning Plants, Except Rugs |
| 1989 | SCOTTS VALLEY CLEANERS | Drycleaning Plants, Except Rugs |
| 1990 | SCOTTS VALLEY CLEANERS | Drycleaning Plants, Except Rugs |

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**C20** **SCOTTS VALLEY CLEANERS** **RCRA NonGen / NLR** **1025865617**
**NNE** **272 MOUNT HERMON RD STE A** **CAL000017500**
**< 1/8** **SCOTTS VALLEY, CA 95066**
**0.043 mi.**
**228 ft.** **Site 6 of 19 in cluster C**

**Relative:** RCRA NonGen / NLR:
**Lower**
Date Form Received by Agency: 1989-11-14 00:00:00.0
**Actual:** Handler Name: SCOTTS VALLEY CLEANERS
**512 ft.** Handler Address: 272 MOUNT HERMON RD STE A
Handler City,State,Zip: SCOTTS VALLEY, CA 95066-4082
EPA ID: CAL000017500
Contact Name: YOUNG KU
Contact Address: 272 MOUNT HERMON RD STE A

**SCOTTS VALLEY CLEANERS (Continued)** **1025865617**

| | |
|---|---|
| Contact City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Contact Telephone: | 831-438-4671 |
| Contact Fax: | 000-000-0000 |
| Contact Email: | PETE_MBL@YAHOO.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 272 MOUNT HERMON RD STE A |
| Mailing City,State,Zip: | SCOTTS VALLEY, CA 95066-0000 |
| Owner Name: | YOUNG AE KU |
| Owner Type: | Other |
| Operator Name: | YOUNG KU |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |

**SCOTTS VALLEY CLEANERS (Continued)** **1025865617**

| | |
|---|---|
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2019-07-29 17:13:40.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | YOUNG AE KU |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 272 MOUNT HERMON RD STE A |
| Owner/Operator City,State,Zip: | SCOTTS VALLEY, CA 95066-0000 |
| Owner/Operator Telephone: | 831-438-4671 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | YOUNG KU |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 272 MOUNT HERMON RD STE A |
| Owner/Operator City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Owner/Operator Telephone: | 831-438-4671 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 1989-11-14 00:00:00.0 |
| Handler Name: SCOTTS VALLEY CLEANERS | |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | Not reported |
| Recognized Trader Exporter: | Not reported |
| Spent Lead Acid Battery Importer: | Not reported |
| Spent Lead Acid Battery Exporter: | Not reported |
| Current Record: | Yes |

**SCOTTS VALLEY CLEANERS (Continued)** **1025865617**

Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 81232
NAICS Description: DRYCLEANING AND LAUNDRY SERVICES (EXCEPT COIN-OPERATED)

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

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**C21** **SCOTTS VALLEY SQUARE** **ENVIROSTOR** **S105628365**
**NNE** **272-A MOUNT HERMAN ROAD** **N/A**
**< 1/8** **SCOTTS VALLEY, CA 95066**
**0.043 mi.**
**228 ft.** **Site 7 of 19 in cluster C**

**Relative:** **Lower**
**Actual:** **512 ft.**

ENVIROSTOR:
Name: SCOTTS VALLEY SQUARE
Address: 272-A MOUNT HERMAN ROAD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility ID: 44590001
Status: Refer: RWQCB
Status Date: 02/22/2001
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 6.8
NPL: NO
Regulatory Agencies: RWQCB 3 - Central Coast
Lead Agency: RWQCB 3 - Central Coast
Program Manager: Not reported
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Assembly: 29
Senate: 17
Special Program: EPA - PASI
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.04795
Longitude: -122.0324
APN: 022-231-017, 022-231-17
Past Use: DRY CLEANING
Potential COC: Tetrachloroethylene (PCE
Confirmed COC: Tetrachloroethylene (PCE
Potential Description: OTH, SOIL
Alias Name: Scotts Valley Dry Cleaners
Alias Type: Alternate Name
Alias Name: 022-231-017
Alias Type: APN
Alias Name: 022-231-17
Alias Type: APN

**SCOTTS VALLEY SQUARE (Continued)** **S105628365**

Alias Name: 44590001
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 02/22/2001
Comments: Completed PEA. A Site Inspection/Re-Assessment for the site was completed under the US EPA PA/SI grant. The assessment recommends that RWQCB continue to provide the oversight for this project. In 1994, Fugro West sampled using soil vapor extraction and air sparging as remedial techniques. In 1995, 4 soil vapor monitoring wells were installed, with the highest PCE concentration detected at 1,200 ug/l. In February 1996, the RWQCB issued Cleanup and Abatement Order No. 96-15 mandating the submittal of a workplan for additional assessment, implementation of interim remediation (SVE) and compliance with a quarterly groundwater monitoring and reporting program. Subsequently, an SVE system was installed and began operating on May 10, 1996. However, due to declining PCE recovery, the system was shut down in 1997. In 2000, Secor conducted a video camera inspection of the storm drain, installed a new monitoring well, and sampled ten new existing wells. Analyses revealed PCE concentrations at 3,900 g/L in MW-4 and a 183% increase in PCE concentrations in MW-2 and MW-7. A Pilot Test Workplan for bioremediation was approved by the RWQCB on June 26, 2002, and injection wells were subsequently installed in October 2002. Groundwater monitoring indicated that dissolved oxygen (DO) levels decreased in all five pilot study wells but increased prior to the second injection well event. Oxidation-reduction potential (ORP) decreased in three wells but increased in two other wells. A Secor report dated January 8, 2003 concluded that the limited amount of groundwater monitoring data available to date makes identification of chemical trends difficult, and that additional injection events are necessary to promote anaerobic biodegradation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 05/23/2000
Comments: Reviewed as part of an EPA PA/SI project.

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

**C22** **SCOTTS VALLEY DRY CLEANERS** **CPS-SLIC** **S106455282**
**NNE** **272 MOUNT HERMON ROAD** **CERS** **N/A**
**< 1/8** **SCOTTS VALLEY, CA 95066**
**0.043 mi.**
**228 ft.** **Site 8 of 19 in cluster C**

**Relative:**
**Lower**

**Actual:**
**512 ft.**

SLIC REG 3:

| | |
|---|---|
| Name: | SCOTTS VALLEY DRY CLEANERS |
| Address: | 272 MOUNT HERMON ROAD |
| City: | SCOTTS VALLEY |
| Region: | 3 |
| Leak Site Cross Street: | Not reported |
| Regional Board Case#: | S148 |
| Entered Into Database: | Not reported |
| Discovered: | UNK |
| RB Case In: | THE PRATT COMPANY |
| Responsible Party: | RUSSELL PRATT |
| RP Contact: | Not reported |
| RP Phone: | Not reported |
| RP Number: | Not reported |
| RP Address: | 425 CALIFORNIA ST, SUITE 200 |
| RP City,St,Zip: | SAN FRANCISCO, CA 94101 |
| Date First Reported: | Not reported |
| Lead Agency: | Regional Board |
| Program Type: | SLIC |
| Facility Status: | Pollution Characterization |
| Case Type: | A, O |
| Case Type Undetermined: | No |
| Case Type Soil Impacted: | No |
| Case Type Surface Water: | No |
| Case Type Drinkin Water Well: | No |
| Case Type Drinking Water Aqfr: | Yes |
| Case Type Other Grnd Wtr: | Yes |
| PCA: | 2030060 |

CPS-SLIC:

| | |
|---|---|
| Name: | SCOTTS VALLEY DRY CLEANERS |
| Address: | 272 MOUNT HERMON ROAD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Region: | STATE |
| **Facility Status:** | **Open - Remediation** |
| Status Date: | 09/23/2020 |
| Global Id: | SLT3S5621370 |
| Lead Agency: | CENTRAL COAST RWQCB (REGION 3) |
| Lead Agency Case Number: | RO0000200 |
| Latitude: | 37.0479994968279 |
| Longitude: | -122.032407224178 |
| Case Type: | Cleanup Program Site |
| Case Worker: | DRN |
| Local Agency: | SANTA CRUZ COUNTY |
| RB Case Number: | S148 |
| File Location: | Regional Board |
| Potential Media Affected: | Aquifer used for drinking water supply, Other Groundwater (uses other than drinking water), Soil, Soil Vapor |
| Potential Contaminants of Concern: | Tetrachloroethylene (PCE) |
| Site History: | Another corrective action plan was approved and is going to be implemented in June 2009 using chemical oxidation. A sodium permanganate chemical oxidation solution will be used to to oxidize chlorinated volatile organic compounds (VOCs) in groundwater. Pilot |

**SCOTTS VALLEY DRY CLEANERS (Continued)** **S106455282**

studies show chemox was effective at destroying VOCs and full-scale remediation is expected with additional injection wells and use of existing wells; to start June 2009. Further indentification of the extent of the groundwater VOCs plume will depend on the outcome of chemox to reduce VOCs within the source area.

Click here to access the California GeoTracker records for this facility:

CERS:

| | |
|---|---|
| Name: | SCOTTS VALLEY DRY CLEANERS |
| Address: | 272 MOUNT HERMON ROAD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Site ID: | 239616 |
| CERS ID: | SLT3S5621370 |
| CERS Description: | Cleanup Program Site |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Regional Board Caseworker |
| Entity Name: | DAN NILES - CENTRAL COAST RWQCB (REGION 3) |
| Entity Title: | Not reported |
| Affiliation Address: | 895 AEROVISTA PLACE SUITE 101 |
| Affiliation City: | SAN LUIS OBISPO |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Local Agency Caseworker |
| Entity Name: | SCOTT CARSON - SANTA CRUZ COUNTY |
| Entity Title: | Not reported |
| Affiliation Address: | 701 Ocean Street, Room 312 |
| Affiliation City: | SANTA CRUZ |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

---

**C23** **SCOTTS VALLEY CLEANERS** **DRYCLEANERS** **S106858431**
**NNE** **272 MOUNT HERMON RD STE A** **HAZNET** **N/A**
**< 1/8** **SCOTTS VALLEY, CA 95066** **CERS**
**0.043 mi.** **HWTS**
**228 ft.** **Site 9 of 19 in cluster C**

**Relative:** **Lower**
**Actual:** **512 ft.**

DRYCLEANERS:

| | |
|---|---|
| Name: | SCOTTS VALLEY CLEANERS |
| Address: | 272 MOUNT HERMON RD STE A |
| City,State,Zip: | SCOTTS VALLEY, CA 950664082 |
| EPA Id: | CAL000017500 |
| NAICS Code: | 81232 |
| NAICS Description: | Drycleaning and Laundry Services (except Coin-Operated) |
| SIC Code: | 7211 |
| SIC Description: | Power Laundries, Family and Commercial |
| Create Date: | 11/14/1989 |
| Facility Active: | Yes |
| Inactive Date: | Not reported |
| Facility Addr2: | Not reported |
| Owner Name: | YOUNG AE KU |

**SCOTTS VALLEY CLEANERS (Continued)** **S106858431**

Owner Address: 272 MOUNT HERMON RD STE A
Owner Address 2: Not reported
Owner Telephone: 8314384671
Contact Name: YOUNG KU
Contact Address: 272 MOUNT HERMON RD STE A
Contact Address 2: Not reported
Contact Telephone: 8314384671
Mailing Name: Not reported
Mailing Address 1: 272 MOUNT HERMON RD STE A
Mailing Address 2: Not reported
Mailing City: SCOTTS VALLEY
Mailing State: CA
Mailing Zip: 950660000
Owner Fax: 0
Region Code: 2

Name: SCOTTS VALLEY DRY CLEANERS - GROUNDWATER REMEDIATION
Address: 272 MOUNT HERMON RD STE A
City,State,Zip: SCOTTS VALLEY, CA 950664082
EPA Id: CAL000289208
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7211
SIC Description: Power Laundries, Family and Commercial
Create Date: 12/16/2004
Facility Active: No
Inactive Date: 06/30/2009
Facility Addr2: Not reported
Owner Name: SCOTTS VALLEY PHASE II
Owner Address: 456 MONTGOMERY ST STE 1000
Owner Address 2: Not reported
Owner Telephone: 4153976822
Contact Name: MICHAEL FOGELMAN
Contact Address: 456 MONTGOMERY STREET STE 1000
Contact Address 2: Not reported
Contact Telephone: 4153976822
Mailing Name: Not reported
Mailing Address 1: 456 MONTGOMERY ST STE 1000
Mailing Address 2: Not reported
Mailing City: SAN FRANCISCO
Mailing State: CA
Mailing Zip: 94104
Owner Fax: Not reported
Region Code: 2

HAZNET:
Name: SCOTTS VALLEY CLEANERS
Address: 272 MOUNT HERMON RD STE A
Address 2: Not reported
City,State,Zip: SCOTTS VALLEY, CA 950664082
Contact: YOUNG KU
Telephone: 4084384671
Mailing Name: Not reported
Mailing Address: 272 MOUNT HERMON RD STE A

Year: 2001
Gepaid: CAL000017500

**SCOTTS VALLEY CLEANERS (Continued)** **S106858431**

TSD EPA ID: CAT080014079
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: -
Tons: 0

Year: 2001
Gepaid: CAL000017500
TSD EPA ID: CAT080014079
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H01 - Transfer Station
Tons: 0.4192

Year: 2000
Gepaid: CAL000017500
TSD EPA ID: CAL000161743
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H01 - Transfer Station
Tons: 1.365

Year: 1999
Gepaid: CAL000017500
TSD EPA ID: CAD982446874
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H01 - Transfer Station
Tons: 2.142

Year: 1998
Gepaid: CAL000017500
TSD EPA ID: CAD980887418
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H01 - Transfer Station
Tons: 0.63

Year: 1998
Gepaid: CAL000017500
TSD EPA ID: CAD982446866
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: R01 - Recycler
Tons: 0.924

Additional Info:
Year: 1999
Gen EPA ID: CAL000017500

Shipment Date: 19990126
Creation Date: 4/20/1999 0:00:00
Receipt Date: 19980129
Manifest ID: 98265972
Trans EPA ID: CAD982413262
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported

**SCOTTS VALLEY CLEANERS (Continued)** **S106858431**

| | |
|---|---|
| TSDF EPA ID: | CAD982446874 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.798 |
| Waste Quantity: | 190 |
| 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: | 19990112 |
| Creation Date: | 3/17/1999 0:00:00 |
| Receipt Date: | 19990113 |
| Manifest ID: | 98265958 |
| Trans EPA ID: | CAD982413262 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982446874 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD982446874 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 1.344 |
| Waste Quantity: | 320 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2000 |
| Gen EPA ID: | CAL000017500 |

| | |
|---|---|
| Shipment Date: | 20000308 |
| Creation Date: | 5/3/2000 0:00:00 |
| Receipt Date: | 20000310 |
| Manifest ID: | 99587110 |
| Trans EPA ID: | CAL000188867 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAL000161743 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAL000161743 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |

**SCOTTS VALLEY CLEANERS (Continued)** **S106858431**

| | |
|---|---|
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 1.365 |
| Waste Quantity: | 325 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 1998 |
| Gen EPA ID: | CAL000017500 |
| Shipment Date: | 19980901 |
| Creation Date: | 11/24/1998 0:00:00 |
| Receipt Date: | 19980903 |
| Manifest ID: | 98266169 |
| Trans EPA ID: | CAD982413262 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD980887418 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD980887418 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.63 |
| Waste Quantity: | 150 |
| 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: | 19980521 |
| Creation Date: | 8/3/1998 0:00:00 |
| Receipt Date: | 19980521 |
| Manifest ID: | 97330729 |
| Trans EPA ID: | CAD982413262 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982446866 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD982446866 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.63 |
| Waste Quantity: | 150 |
| Quantity Unit: | G |

**SCOTTS VALLEY CLEANERS (Continued)** **S106858431**

| | |
|---|---|
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19980515 |
| Creation Date: | 7/15/1998 0:00:00 |
| Receipt Date: | 19980515 |
| Manifest ID: | 96717578 |
| Trans EPA ID: | CAD982413262 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982446866 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD982446866 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.294 |
| 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 |

Additional Info:

| | |
|---|---|
| Year: | 2001 |
| Gen EPA ID: | CAL000017500 |
| | |
| Shipment Date: | 20010216 |
| Creation Date: | 4/30/2001 0:00:00 |
| Receipt Date: | 20010221 |
| Manifest ID: | 20780199 |
| Trans EPA ID: | CAR000086777 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080014079 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAT080014079 |
| 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: | 0.2107 |
| Waste Quantity: | 0.25 |
| Quantity Unit: | Y |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**SCOTTS VALLEY CLEANERS (Continued)** **S106858431**

| | |
|---|---|
| Shipment Date: | 20010216 |
| Creation Date: | 4/30/2001 0:00:00 |
| Receipt Date: | 20010221 |
| Manifest ID: | 20780199 |
| Trans EPA ID: | CAR000086777 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080014079 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAT080014079 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 741 - Liquids with halogenated organic compounds > 1000 mg/l |
| RCRA Code: | F002 |
| Meth Code: | - Not reported |
| Quantity Tons: | 0 |
| Waste Quantity: | 0 |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20010110 |
| Creation Date: | 3/22/2001 0:00:00 |
| Receipt Date: | 20010115 |
| Manifest ID: | 20780102 |
| Trans EPA ID: | CAR000086777 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080014079 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAT080014079 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 741 - Liquids with halogenated organic compounds > 1000 mg/l |
| RCRA Code: | F002 |
| Meth Code: | - Not reported |
| Quantity Tons: | 0 |
| Waste Quantity: | 0 |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20010110 |
| Creation Date: | 3/22/2001 0:00:00 |
| Receipt Date: | 20010115 |
| Manifest ID: | 20780102 |
| Trans EPA ID: | CAR000086777 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080014079 |

**SCOTTS VALLEY CLEANERS (Continued)** **S106858431**

| | |
|---|---|
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAT080014079 |
| 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: | 0.2085 |
| Waste Quantity: | 50 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

CERS:

| | |
|---|---|
| Name: | SCOTTS VALLEY CLEANERS |
| Address: | 272 MOUNT HERMON ROAD UNIT A |
| City,State,Zip: | SCOTTS VALLEY, CA 95066-4082 |
| Site ID: | 493074 |
| CERS ID: | 110012418785 |
| CERS Description: | US EPA Air Emission Inventory System (EIS) |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Regional Board Caseworker |
| Entity Name: | DAN NILES CTRL CST RWQCB REGN 3RD |
| Entity Title: | Not reported |
| Affiliation Address: | 895 AEROVISTA PLACE SUITE 101 |
| Affiliation City: | SANLUISOBISPO |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | YUNG AE KU |
| Entity Title: | Not reported |
| Affiliation Address: | 272 MT HERMON RD A |
| Affiliation City: | SCOTTSVALLEY |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Local Agency Caseworker |
| Entity Name: | SCOTT CARSON SANTA CRUZ CNTY LOP |
| Entity Title: | Not reported |
| Affiliation Address: | 701 OCEAN STREETNA ROOM 312 |
| Affiliation City: | SANTACRUZ |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | ENVIR MGMT |
| Entity Title: | Not reported |

**SCOTTS VALLEY CLEANERS (Continued)** **S106858431**

Affiliation Address: 272 A MT HERMON ROAD
Affiliation City: SCOTTSVALLEY
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

HWTS:
Name: SCOTTS VALLEY CLEANERS
Address: 272 MOUNT HERMON RD STE A
Address 2: Not reported
City,State,Zip: SCOTTS VALLEY, CA 950664082
EPA ID: CAL000017500
Inactive Date: Not reported
Create Date: 11/14/1989
Last Act Date: 02/02/2021
Mailing Name: Not reported
Mailing Address: 272 MOUNT HERMON RD STE A
Mailing Address 2: Not reported
Mailing City,State,Zip: SCOTTS VALLEY, CA 950660000
Owner Name: YOUNG AE KU
Owner Address: 272 MOUNT HERMON RD STE A
Owner Address 2: Not reported
Owner City,State,Zip: SCOTTS VALLEY, CA 950660000
Contact Name: YOUNG KU
Contact Address: 272 MOUNT HERMON RD STE A
Contact Address 2: Not reported
City,State,Zip: SCOTTS VALLEY, CA 95066

NAICS:
EPA ID: CAL000017500
Create Date: 2002-03-14 16:36:27.000
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
Issued EPA ID Date: 1989-11-14 00:00:00
Inactive Date: Not reported
Facility Name: SCOTTS VALLEY CLEANERS
Facility Address: 272 MOUNT HERMON RD STE A
Facility Address 2: Not reported
Facility City: SCOTTS VALLEY
Facility County: Not reported
Facility State: CA
Facility Zip: 950664082

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**C24** **SCOTTS VALLEY CLEANERS** **CUPA Listings** **S110743170**
**NNE** **272 MT HERMON RD** **N/A**
**< 1/8** **SCOTTS VALLEY, CA 95066**
**0.043 mi.**
**228 ft.** **Site 10 of 19 in cluster C**

**Relative:**
**Lower**

**Actual:**
**512 ft.**

CUPA SANTA CRUZ:
Name: SCOTTS VALLEY CLEANERS
Address: 272 MT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0002936
Cross Street: LOCKWOOD

**SCOTTS VALLEY CLEANERS (Continued)** **S110743170**

Description: HMMP STANDARD FORM QR 2

Name: SCOTTS VALLEY CLEANERS
Address: 272 MT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0002936
Cross Street: LOCKWOOD
Description: HMMP STANDARD FORM FILING FEE

Name: SCOTTS VALLEY CLEANERS
Address: 272 MT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0002936
Cross Street: LOCKWOOD
Description: HAZARDOUS WASTE GENERATOR (HMMP STD FORM)

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**C25** **SCOTTS VALLEY CLEANERS** **EDR Hist Cleaner** **1020082666**
**NNE** **272 MOUNT HERMON RD A** **N/A**
**< 1/8** **SCOTTS VALLEY, CA 95066**
**0.043 mi.**
**228 ft.** **Site 11 of 19 in cluster C**

**Relative:** EDR Hist Cleaner
**Lower**

**Actual:**
**512 ft.**

| Year: | Name: | Type: |
|---|---|---|
| 1991 | SCOTTS VALLEY CLEANERS | Drycleaning Plants, Except Rugs |
| 1992 | SCOTTS VALLEY CLEANERS | Drycleaning Plants, Except Rugs |
| 1993 | SCOTTS VALLEY CLEANERS | Drycleaning Plants, Except Rugs |
| 1995 | SCOTTS VALLEY CLEANERS | Drycleaning Plants, Except Rugs |
| 1996 | SCOTTS VALLEY CLEANERS | Drycleaning Plants, Except Rugs |
| 1997 | SCOTTS VALLEY CLEANERS | Drycleaning Plants, Except Rugs |
| 1998 | SCOTTS VALLEY CLEANERS | Drycleaning Plants, Except Rugs |
| 1999 | SCOTTS VALLEY CLEANERS | Drycleaning Plants, Except Rugs |
| 2000 | SCOTTS VALLEY CLEANERS | Drycleaning Plants, Except Rugs |
| 2001 | SCOTTS VALLEY CLEANERS | Drycleaning Plants, Except Rugs |
| 2002 | SCOTTS VALLEY CLEANERS | Drycleaning Plants, Except Rugs |
| 2003 | SCOTTS VALLEY CLEANERS | Drycleaning Plants, Except Rugs |
| 2004 | SCOTTS VALLEY CLEANERS | Drycleaning Plants, Except Rugs |
| 2005 | SCOTTS VALLEY CLEANERS | Drycleaning Plants, Except Rugs |
| 2006 | SCOTTS VALLEY CLEANERS | Drycleaning Plants, Except Rugs |
| 2007 | SCOTTS VALLEY CLEANERS | Drycleaning Plants, Except Rugs |
| 2008 | SCOTTS VALLEY CLEANERS | Drycleaning Plants, Except Rugs |
| 2009 | SCOTTS VALLEY CLEANERS | Drycleaning Plants, Except Rugs |
| 2010 | SCOTTS VALLEY CLEANERS | Drycleaning Plants, Except Rugs |
| 2011 | SCOTTS VALLEY CLEANERS | Drycleaning Plants, Except Rugs |
| 2012 | SCOTTS VALLEY CLEANERS | Drycleaning Plants, Except Rugs |
| 2013 | SCOTTS VALLEY CLEANERS | Drycleaning Plants, Except Rugs |
| 2014 | SCOTTS VALLEY CLEANERS | Drycleaning Plants, Except Rugs |

**C26** **272A MOUNT HERMON RD (SCOTTS VALLEY DRY CLEANERS C** **Cortese** **S120713969**
**NNE** **272 MOUNT HERMON** **ENF** **N/A**
**< 1/8** **SCOTTS VALLEY, CA 95066** **NPDES**
**0.043 mi.** **CERS**
**228 ft.** **Site 12 of 19 in cluster C**

**Relative:**
**Lower**

**Actual:**
**512 ft.**

CORTESE:

| | |
|---|---|
| Name: | 272A MOUNT HERMON RD (SCOTTS VALLEY DRY CLEANERS CLEANUP SITE) |
| Address: | 272 MOUNT HERMON |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Region: | CORTESE |
| Envirostor Id: | Not reported |
| Global ID: | Not reported |
| Site/Facility Type: | Not reported |
| Cleanup Status: | Not reported |
| 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: | CORTESE |
| Order No: | Not reported |
| Waste Discharge System No: | Not reported |
| Effective Date: | Not reported |
| Region 2: | 3 |
| WID Id: | 3 440001N13 |
| Solid Waste Id No: | Not reported |
| Waste Management Uit Name: | Not reported |
| File Name: | Cease Desist Orders & Cleanup Abatement Orders |

| | |
|---|---|
| Name: | 272A MOUNT HERMON RD (SCOTTS VALLEY DRY CLEANERS CLEANUP SITE) |
| Address: | 272 MOUNT HERMON |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Region: | CORTESE |
| Envirostor Id: | Not reported |
| Global ID: | Not reported |
| Site/Facility Type: | Not reported |
| Cleanup Status: | Not reported |
| 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: | CORTESE |
| Order No: | R3-2016-0035 |
| Waste Discharge System No: | Not reported |
| Effective Date: | 12/01/2006 |
| Region 2: | 3 |
| WID Id: | 3 440505308 |
| Solid Waste Id No: | Not reported |
| Waste Management Uit Name: | Not reported |
| File Name: | Cease Desist Orders & Cleanup Abatement Orders |

ENF:

| | |
|---|---|
| Name: | 272A MOUNT HERMON RD (SCOTTS VALLEY DRY CLEANERS CLEANUP SITE) |

**272A MOUNT HERMON RD (SCOTTS VALLEY DRY CLEANERS CLEANUP SIT (Continued)** **S120713969**

| | |
|---|---|
| Address: | 272 MOUNT HERMON |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Region: | 3 |
| Facility Id: | 202212 |
| Agency Name: | Scotts Valley Phase Two |
| Place Type: | Service/Commercial |
| Place Subtype: | Service/Commercial Site, NEC |
| Facility Type: | Industrial |
| Agency Type: | Privately-Owned Business |
| # Of Agencies: | 1 |
| Place Latitude: | 37.047109 |
| Place Longitude: | -122.030453 |
| SIC Code 1: | 7216 |
| SIC Desc 1: | Drycleaning Plants, Except Rug Cleaning |
| 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: | Not reported |
| Program Category1: | Not reported |
| Program Category2: | UNREGS |
| # Of Programs: | Not reported |
| WDID: | 3 440001N13 |
| Reg Measure Id: | 164504 |
| Reg Measure Type: | Unregulated |
| Region: | 3 |
| 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 |

**272A MOUNT HERMON RD (SCOTTS VALLEY DRY CLEANERS CLEANUP SIT (Continued)** **S120713969**

| | |
|---|---|
| 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): | 222050 |
| Region: | 3 |
| Order / Resolution Number: | 96-015 |
| Enforcement Action Type: | Clean-up and Abatement Order |
| Effective Date: | 02/23/1996 |
| Adoption/Issuance Date: | Not reported |
| Achieve Date: | Not reported |
| Termination Date: | Not reported |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Active |
| Title: | Enforcement - 3 440001N13 |
| Description: | MUST SUBMIT WORKPLAN TO DETERMINE EXTENT OF PCE-AFFECTED GW & IMPLEMENT INTERIM REMEDIAL ACTION PLAN |
| Program: | ENFCAO |
| 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: | 272A MOUNT HERMON RD (SCOTTS VALLEY DRY CLEANERS CLEANUP SITE) |
| Address: | 272 MOUNT HERMON |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Region: | 3 |
| Facility Id: | 202212 |
| Agency Name: | The Pratt Company |
| Place Type: | Service/Commercial |
| Place Subtype: | Service/Commercial Site, NEC |
| Facility Type: | Industrial |
| Agency Type: | Privately-Owned Business |
| # Of Agencies: | 1 |
| Place Latitude: | 37.047109 |
| Place Longitude: | -122.030453 |
| SIC Code 1: | 7216 |
| SIC Desc 1: | Drycleaning Plants, Except Rug Cleaning |
| 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 |

**272A MOUNT HERMON RD (SCOTTS VALLEY DRY CLEANERS CLEANUP SIT (Continued)** **S120713969**

| | |
|---|---|
| NAICS Desc 3: | Not reported |
| # Of Places: | 1 |
| Source Of Facility: | Reg Meas |
| Design Flow: | Not reported |
| Threat To Water Quality: | 3 |
| Complexity: | C |
| Pretreatment: | X - Facility is not a POTW |
| Facility Waste Type: | Not reported |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDNONMUNIPRCS |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 3 440505308 |
| Reg Measure Id: | 186451 |
| Reg Measure Type: | Enrollee |
| Region: | 3 |
| Order #: | R3-2016-0035 |
| Npdes# CA#: | CAG993002 |
| Major-Minor: | Minor |
| Npdes Type: | Not reported |
| Reclamation: | N - No |
| Dredge Fill Fee: | Not reported |
| 301H: | Not reported |
| Application Fee Amt Received: | 5688 |
| Status: | Historical |
| Status Date: | 12/06/2018 |
| Effective Date: | 12/01/2006 |
| Expiration/Review Date: | 01/28/2022 |
| Termination Date: | 04/07/2018 |
| 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: | Y |
| Individual/General: | I |
| Fee Code: | 62 - Treatment system to meet priority pollutant limit Category 1 |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 411751 |
| Region: | 3 |
| Order / Resolution Number: | Not reported |
| Enforcement Action Type: | Notice of Violation |
| Effective Date: | 02/08/2017 |
| Adoption/Issuance Date: | 02/08/2017 |
| Achieve Date: | Not reported |
| Termination Date: | 02/08/2017 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | NOV 02/08/2017 for The Pratt Company Scotts Valley Dry Cleaners Cleanup Site |
| Description: | Not reported |
| Program: | NPDNONMUNIPRCS |

**272A MOUNT HERMON RD (SCOTTS VALLEY DRY CLEANERS CLEANUP SIT (Continued)** **S120713969**

| | |
|---|---|
| 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: | 272A MOUNT HERMON RD (SCOTTS VALLEY DRY CLEANERS CLEANUP SITE) |
| Address: | 272 MOUNT HERMON |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Region: | 3 |
| Facility Id: | 202212 |
| Agency Name: | The Pratt Company |
| Place Type: | Service/Commercial |
| Place Subtype: | Service/Commercial Site, NEC |
| Facility Type: | Industrial |
| Agency Type: | Privately-Owned Business |
| # Of Agencies: | 1 |
| Place Latitude: | 37.047109 |
| Place Longitude: | -122.030453 |
| SIC Code 1: | 7216 |
| SIC Desc 1: | Drycleaning Plants, Except Rug Cleaning |
| 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: | 3 |
| Complexity: | C |
| Pretreatment: | X - Facility is not a POTW |
| Facility Waste Type: | Not reported |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDNONMUNIPRCS |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 3 440505308 |
| Reg Measure Id: | 186451 |
| Reg Measure Type: | Enrollee |
| Region: | 3 |
| Order #: | R3-2016-0035 |
| Npdes# CA#: | CAG993002 |
| Major-Minor: | Minor |
| Npdes Type: | Not reported |

**272A MOUNT HERMON RD (SCOTTS VALLEY DRY CLEANERS CLEANUP SIT (Continued)** **S120713969**

| | |
|---|---|
| Reclamation: | N - No |
| Dredge Fill Fee: | Not reported |
| 301H: | Not reported |
| Application Fee Amt Received: | 5688 |
| Status: | Historical |
| Status Date: | 12/06/2018 |
| Effective Date: | 12/01/2006 |
| Expiration/Review Date: | 01/28/2022 |
| Termination Date: | 04/07/2018 |
| 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: | Y |
| Individual/General: | I |
| Fee Code: | 62 - Treatment system to meet priority pollutant limit Category 1 |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 256712 |
| Region: | 3 |
| Order / Resolution Number: | R3-2005-0081 |
| Enforcement Action Type: | Clean-up and Abatement Order |
| Effective Date: | 05/25/2005 |
| Adoption/Issuance Date: | Not reported |
| Achieve Date: | Not reported |
| Termination Date: | Not reported |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Active |
| Title: | Cleanup and Abatement Order for Scotts Valley Dry Cleaners Cleanup Site |
| Description: | Cleanup and Abatement Order No. R3-2005-0081 issued replacing CAO 96-15. |
| Program: | NPDNONMUNIPRCS |
| 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 |

NPDES:

| | |
|---|---|
| Name: | 272A MOUNT HERMON RD (SCOTTS VALLEY DRY CLEANERS CLEANUP SITE) |
| Address: | 272 MOUNT HERMON |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Facility Status: | Historical |
| NPDES Number: | CAG993002 |
| Region: | 3 |
| Agency Number: | 562404 |
| Regulatory Measure ID: | 186451 |
| Place ID: | 202212 |
| Order Number: | R3-2016-0035 |
| WDID: | 3 440505308 |

**272A MOUNT HERMON RD (SCOTTS VALLEY DRY CLEANERS CLEANUP SIT (Continued)** **S120713969**

| | |
|---|---|
| Regulatory Measure Type: | Enrollee |
| Program Type: | NPDNONMUNIPRCS |
| Adoption Date Of Regulatory Measure: | 12/01/2006 |
| Effective Date Of Regulatory Measure: | 12/01/2006 |
| Termination Date Of Regulatory Measure: | 04/07/2018 |
| Expiration Date Of Regulatory Measure: | 01/28/2022 |
| Discharge Address: | 591 Redwood Highway 2150 |
| Discharge Name: | The Pratt Company |
| Discharge City: | Mill Valley |
| Discharge State: | CA |
| Discharge Zip: | 94941 |
| Status: | Not reported |
| Status Date: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |

NPDES as of 03/2018:

| | |
|---|---|
| NPDES Number: | CAG993002 |
| Status: | Active |
| Agency Number: | 562404 |
| Region: | 3 |
| Regulatory Measure ID: | 186451 |
| Order Number: | R3-2016-0035 |
| Regulatory Measure Type: | Enrollee |
| Place ID: | 202212 |
| WDID: | 3 440505308 |
| Program Type: | NPDNONMUNIPRCS |
| Adoption Date Of Regulatory Measure: | 12/01/2006 |
| Effective Date Of Regulatory Measure: | 12/01/2006 |
| Expiration Date Of Regulatory Measure: | 01/28/2022 |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | The Pratt Company |
| Discharge Address: | 591 Redwood Highway 2150 |
| Discharge City: | Mill Valley |
| Discharge State: | CA |
| Discharge Zip: | 94941 |
| Received Date: | Not reported |
| Processed Date: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Place Size: | Not reported |
| Place Size Unit: | Not reported |
| Contact: | Not reported |
| Contact Title: | Not reported |
| Contact Phone: | Not reported |
| Contact Phone Ext: | Not reported |
| Contact Email: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |
| Operator Contact: | Not reported |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | Not reported |

**272A MOUNT HERMON RD (SCOTTS VALLEY DRY CLEANERS CLEANUP SIT (Continued)** **S120713969**

| | |
|---|---|
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | Not reported |
| Operator Type: | Not reported |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | Not reported |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Not reported |
| Certifier Title: | Not reported |
| Certification Date: | Not reported |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |

CERS:

| | |
|---|---|
| Name: | 272A MOUNT HERMON RD (SCOTTS VALLEY DRY CLEANERS CLEANUP SITE) |
| Address: | 272 MOUNT HERMON |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Site ID: | 348316 |
| CERS ID: | 202212 |
| CERS Description: | NPDES Wastewater and Stormwater |

Violations:

| | |
|---|---|
| Site ID: | 348316 |
| Site Name: | 272A Mount Hermon Rd (Scotts Valley Dry Cleaners Cleanup Site) |
| Violation Date: | 12-14-2015 |
| Citation: | California Water Code |
| Violation Description: | Not reported |
| Violation Notes: | Violated Discharge Prohibition B.5 (Discharge containing any substances in concentrations toxic to human, animal, plant, or aquatic life is prohibited), resulting in discharge of an estimated 710 gallons of wastewater to Bean Creek. Discharger released tank of |

**272A MOUNT HERMON RD (SCOTTS VALLEY DRY CLEANERS CLEANUP SIT (Continued)** **S120713969**

previously treated but stagnant water before receiving sampling results from lab. Lab re
Violation Division: Water Boards
Violation Program: NPDNONMUNI
Violation Source: CIWQS

Site ID: 348316
Site Name: 272A Mount Hermon Rd (Scotts Valley Dry Cleaners Cleanup Site)
Violation Date: 12-14-2015
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Receiving Water Limitation D.12: The discharge shall not have a reasonable potential to cause or contribute to an excursion above any applicable criterion or water quality objective for the receiving waters adopted by the Water Board. Basin Plan Ch. 3. Water Quality Objectives, Part II., Subpart II.A., Section II.A.2.a. General Objectives, Toxicity
Violation Division: Water Boards
Violation Program: NPDNONMUNI
Violation Source: CIWQS

Site ID: 348316
Site Name: 272A Mount Hermon Rd (Scotts Valley Dry Cleaners Cleanup Site)
Violation Date: 12-20-2015
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Std Prov and Reporting Req G.16, and Att E -+ Std Prov - Reporting, Section V. E. 1: The Discharger failed to report noncompliance which may endanger health or the environment via a written submission (report) within five (5) days of the time the Discharger becomes aware of the circumstances.
Violation Division: Water Boards
Violation Program: NPDNONMUNI
Violation Source: CIWQS

Site ID: 348316
Site Name: 272A Mount Hermon Rd (Scotts Valley Dry Cleaners Cleanup Site)
Violation Date: 12-14-2015
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Receiving Water Limitations, Section D.10: Toxicity -+ The discharge shall not cause substances in concentrations toxic to human, plant, animal, or aquatic life, or produce detrimental physiological responses therein. The discharge was toxic as determined by the WET analysis at 100 percent mortality for the test species.
Violation Division: Water Boards
Violation Program: NPDNONMUNI
Violation Source: CIWQS

Enforcement Action:
Site ID: 348316
Site Name: 272A Mount Hermon Rd (Scotts Valley Dry Cleaners Cleanup Site)
Site Address: 272 MOUNT HERMON
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 02-08-2017
Enf Action Type: Notice of Violation (Water)

**272A MOUNT HERMON RD (SCOTTS VALLEY DRY CLEANERS CLEANUP SIT (Continued)** **S120713969**

| | |
|---|---|
| Enf Action Description: | Notice of Violation Letter (Informal) |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Water Boards |
| Enf Action Program: | UNSPEC |
| Enf Action Source: | CIWQS |

| | |
|---|---|
| Site ID: | 348316 |
| Site Name: | 272A Mount Hermon Rd (Scotts Valley Dry Cleaners Cleanup Site) |
| Site Address: | 272 MOUNT HERMON |
| Site City: | SCOTTS VALLEY |
| Site Zip: | 95066 |
| Enf Action Date: | 02-23-1996 |
| Enf Action Type: | Clean-up and Abatement Order |
| Enf Action Description: | Clean-up and Abatement Order |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Water Boards |
| Enf Action Program: | UNSPEC |
| Enf Action Source: | CIWQS |

| | |
|---|---|
| Site ID: | 348316 |
| Site Name: | 272A Mount Hermon Rd (Scotts Valley Dry Cleaners Cleanup Site) |
| Site Address: | 272 MOUNT HERMON |
| Site City: | SCOTTS VALLEY |
| Site Zip: | 95066 |
| Enf Action Date: | 05-25-2005 |
| Enf Action Type: | Clean-up and Abatement Order |
| Enf Action Description: | Clean-up and Abatement Order |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Water Boards |
| Enf Action Program: | UNSPEC |
| Enf Action Source: | CIWQS |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Operator |
| Entity Name: | The Pratt Company |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

---

**C27** **KEYME INC** **RCRA NonGen / NLR** **1024873487**
**NNE** **270 MT HERMON RD** **CAL000442139**
**< 1/8** **SCOTTS VALLEY, CA 95066**
**0.043 mi.**
**229 ft.** **Site 13 of 19 in cluster C**

**Relative:** RCRA NonGen / NLR:
**Lower**

| | | |
|---|---|---|
| **Actual:** Date Form Received by Agency: | | 2019-01-02 00:00:00.0 |
| **512 ft.** Handler Name: | KEYME INC | |
| Handler Address: | | 270 MT HERMON RD |
| Handler City,State,Zip: | | SCOTTS VALLEY, CA 95066 |
| EPA ID: | | CAL000442139 |
| Contact Name: | | JILL MORGENWECK |

**KEYME INC (Continued)** **1024873487**

| | |
|---|---|
| Contact Address: | 5 PENN PLAZA FL 10 |
| Contact City,State,Zip: | NEW YORK, NY 10001 |
| Contact Telephone: | 888-380-0394 |
| Contact Fax: | Not reported |
| Contact Email: | JILL.MORGENWECK@KEY.ME |
| 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: | 5 PENN PLAZA FL 10 |
| Mailing City,State,Zip: | NEW YORK, NY 10001 |
| Owner Name: | KEYME INC |
| Owner Type: | Other |
| Operator Name: | JILL MORGENWECK |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |

**KEYME INC (Continued)** **1024873487**

| | |
|---|---|
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2019-02-22 19:42:06.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | JILL MORGENWECK |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 5 PENN PLAZA FL 10 |
| Owner/Operator City,State,Zip: | NEW YORK, NY 10001 |
| Owner/Operator Telephone: | 888-380-0394 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | KEYME INC |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 5 PENN PLAZA FL 10 |
| Owner/Operator City,State,Zip: | NEW YORK, NY 10001 |
| Owner/Operator Telephone: | 888-380-0394 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 2019-01-02 00:00:00.0 |
| Handler Name: KEYME 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 |

**KEYME INC (Continued)** **1024873487**

Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 337215
NAICS Description: SHOWCASE, PARTITION, SHELVING, AND LOCKER MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

---

**C28** **KEYME INC** **RCRA-VSQG** **1019322338**
**NNE** **270 MT HERMON RD** **FINDS** **CAL000018531**
**< 1/8** **SCOTTS VALLEY, CA 95066**
**0.043 mi.**
**229 ft.** **Site 14 of 19 in cluster C**

**Relative:** **Lower**
**Actual:** **512 ft.**

RCRA-VSQG:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 2016-02-18 00:00:00.0 |
| Handler Name: | KMART 9797 | |
| Handler Address: | | 270 MT HERMON RD |
| Handler City,State,Zip: | | SCOTTS VALLEY, CA 95066 |
| EPA ID: | | CAL000018531 |
| Contact Name: | | CYNTHIA MILLER |
| Contact Address: | | BEVERLY ROAD |
| Contact City,State,Zip: | | HOFFMAN ESTATES, IL 60179 |
| Contact Telephone: | | 847-286-7994 |
| Contact Fax: | | 847-747-1609 |
| Contact Email: | | CYNTHIA.MILLER@SEARSHC.COM |
| Contact Title: | | ENVIRONMENTAL SPECIALIST |
| EPA Region: | | 09 |
| Land Type: | | Private |
| Federal Waste Generator Description: | | Conditionally Exempt Small Quantity Generator |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | 2015 |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Handler Activities |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | BEVERLY ROAD |
| Mailing City,State,Zip: | | HOFFMAN ESTATES, IL 60179 |
| Owner Name: | | KMART CORPORATION |
| Owner Type: | | Private |
| Operator Name: | | KMART CORPORATION |
| 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 |

**KEYME INC (Continued)** **1019322338**

| | |
|---|---|
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | NN |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2016-11-04 19:42:33.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | Not reported |
| Manifest Broker: | Not reported |
| Sub-Part P Indicator: | Not reported |

Biennial: List of Years
Year: 2015

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D001

**KEYME INC (Continued)** **1019322338**

Waste Description: IGNITABLE WASTE

Waste Code: D002
Waste Description: CORROSIVE WASTE

Waste Code: D006
Waste Description: CADMIUM

Waste Code: D008
Waste Description: LEAD

Waste Code: D011
Waste Description: SILVER

Waste Code: D016
Waste Description: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

Waste Code: D018
Waste Description: BENZENE

Waste Code: D035
Waste Description: METHYL ETHYL KETONE

Waste Code: P075
Waste Description: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: KMART CORPORATION
Legal Status: Private
Date Became Current: 1986-03-20 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: KMART CORPORATION
Legal Status: Private
Date Became Current: 1986-03-20 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 3333 BEVERLY ROAD
Owner/Operator City,State,Zip: HOFFMAN ESTATES, IL 60179
Owner/Operator Telephone: 847-286-7994
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2016-02-18 00:00:00.0
Handler Name: KMART 9797
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator

**KEYME INC (Continued)** **1019322338**

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: 45299
NAICS Description: ALL OTHER GENERAL MERCHANDISE STORES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110070737458

Click Here:

Environmental Interest/Information System:
HAZARDOUS WASTE BIENNIAL REPORTER
Registry ID: 110070540093

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

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**C29** **KMART #9797** **CUPA Listings** **S120050161**
**NNE** **270 MOUNT HERMON RD** **N/A**
**< 1/8** **SCOTTS VALLEY, CA 95066**
**0.043 mi.**
**229 ft.** **Site 15 of 19 in cluster C**

**Relative:** CUPA SANTA CRUZ:
**Lower** Name: KMART #9797
Address: 270 MOUNT HERMON RD
**Actual:** City,State,Zip: SCOTTS VALLEY, CA 95066
**512 ft.** Facility Id: FA0005729
Cross Street: SKYPARK DRIVE
Description: HMMP STANDARD FORM FILING FEE

Name: KMART #9797

**KMART #9797 (Continued)** **S120050161**

Address: 270 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0005729
Cross Street: SKYPARK DRIVE
Description: HAZARDOUS WASTE GENERATOR (HMMP STD FORM)

Name: KMART #9797
Address: 270 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0005729
Cross Street: SKYPARK DRIVE
Description: HMMP STANDARD FORM QR 2

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**C30** **SCOTTS VALLEY CLEANERS** **CERS HAZ WASTE** **S121746630**
**NNE** **272 MT HERMON RD #A** **CERS** **N/A**
**< 1/8** **SCOTTS VALLEY, CA 95066**
**0.043 mi.**
**229 ft.** **Site 16 of 19 in cluster C**

**Relative:** **Lower**

**Actual:** **507 ft.**

CERS HAZ WASTE:
Name: SCOTTS VALLEY CLEANERS
Address: 272 MT HERMON RD #A
City,State,Zip: SCOTTS VALLEY, CA 95066
Site ID: 151772
CERS ID: 10192723
CERS Description: Hazardous Waste Generator

CERS:
Name: SCOTTS VALLEY CLEANERS
Address: 272 MT HERMON RD #A
City,State,Zip: SCOTTS VALLEY, CA 95066
Site ID: 151772
CERS ID: 10192723
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 151772
Site Name: SCOTTS VALLEY CLEANERS
Violation Date: 12-12-2013
Citation: 19 CCR 4 2729.5 - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.5
Violation Description: Failure to submit inventory reports (Activities, Owner/Operator, Hazardous Materials Descriptions and Map pages, if required. Documentation must be resubmitted (for facilities which exceed EPCRA thresholds) or re-certified (for facilities which do not exceed EPCRA thresholds) by March 1.
Violation Notes: Returned to compliance on 12/19/2013.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-01-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported

**SCOTTS VALLEY CLEANERS (Continued)** **S121746630**

Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-01-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Ms. Yung Ae Ku, Owner.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-02-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-02-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Yung Ae Ku, owner. Ms. Yung Ae Ku authorizes the the resubmittal of the business plan in CERS.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-02-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-02-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Yung Ae Ku, Owner.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-03-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW

**SCOTTS VALLEY CLEANERS (Continued)** **S121746630**

| | |
|---|---|
| Eval Source: | CERS |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 12-03-2018 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Inspection authorized by Ms. Yung Ae Ku, Owner. Ms. Yung Ae Ku authorizes Santa Cruz County Environmental Health to re-submit/certify the hazardous materials plan in CERS. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 12-04-2015 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 12-04-2015 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 12-12-2013 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 12-12-2013 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| Eval General Type: | Other/Unknown |
| Eval Date: | 12-20-2013 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

**SCOTTS VALLEY CLEANERS (Continued)** **S121746630**

Enforcement Action:

| | |
|---|---|
| Site ID: | 151772 |
| Site Name: | SCOTTS VALLEY CLEANERS |
| Site Address: | 272 MT HERMON RD #A |
| Site City: | SCOTTS VALLEY |
| Site Zip: | 95066 |
| Enf Action Date: | 12-12-2013 |
| 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 Cruz County Environmental Health |
| Enf Action Program: | HMRRP |
| Enf Action Source: | CERS |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | CUPA District |
| Entity Name: | Santa Cruz County Environmental Health |
| Entity Title: | Not reported |
| Affiliation Address: | 701 Ocean Boulevard, Suite 312 |
| Affiliation City: | Santa Cruz |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95060 |
| Affiliation Phone: | (831) 454-2022 |

| | |
|---|---|
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | YUNG AE KU |
| Entity Title: | Not reported |
| Affiliation Address: | 272 MOUNT HERMON RD #A |
| Affiliation City: | SCOTTS VALLEY |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 95066 |
| Affiliation Phone: | (831) 439-9377 |

| | |
|---|---|
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | SCOTTS VALLEY 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: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | YUNG AE KU |
| Entity Title: | OWNER |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Environmental Contact |

**SCOTTS VALLEY CLEANERS (Continued)** **S121746630**

| | |
|---|---|
| Entity Name: | YUNG AE KU |
| Entity Title: | Not reported |
| Affiliation Address: | 272 MT HERMON RD #A |
| Affiliation City: | SCOTTS VALLEY |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95066 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | 272 MOUNT HERMON RD #A |
| Affiliation City: | SCOTTS VALLEY |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95066 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Operator |
| Entity Name: | YUNG AE KU |
| 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: | (831) 439-9377 |

---

**C31** **DOLLAR TREE #03759** **CERS HAZ WASTE** **S113802770**
**NNE** **266 MOUNT HERMON RD STE B** **CUPA Listings** **N/A**
**< 1/8** **SCOTTS VALLEY, CA 95066** **HAZNET**
**0.044 mi.** **CERS**
**231 ft.** **Site 17 of 19 in cluster C**

**Relative:** **Lower**

**Actual:** **512 ft.**

CERS HAZ WASTE:

| | |
|---|---|
| Name: | DOLLAR TREE #03759 |
| Address: | 266 MOUNT HERMON RD STE B |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Site ID: | 112124 |
| CERS ID: | 10444474 |
| CERS Description: | Hazardous Waste Generator |

CUPA SANTA CRUZ:

| | |
|---|---|
| Name: | DOLLAR TREE #03759 |
| Address: | 266 MOUNT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Facility Id: | FA0007383 |
| Cross Street: | Not reported |
| Description: | HMMP STANDARD FORM FILING FEE |
| | |
| Name: | DOLLAR TREE #03759 |
| Address: | 266 MOUNT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Facility Id: | FA0007383 |
| Cross Street: | Not reported |

**DOLLAR TREE #03759 (Continued)** **S113802770**

Description: HAZARDOUS WASTE GENERATOR (HMMP STD FORM)

HAZNET:

| | |
|---|---|
| Name: | DOLLAR TREE #03759 |
| Address: | 266 MOUNT HERMON RD STE B |
| Address 2: | Not reported |
| City,State,Zip: | SCOTTS VALLEY, CA 233201604 |
| Contact: | ANGELA JONES |
| Telephone: | 7573215761 |
| Mailing Name: | Not reported |
| Mailing Address: | 500 VOLVO PKWY |
| Year: | 2019 |
| Gepaid: | CAL000379390 |
| 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: | 0.19650 |
| Year: | 2019 |
| Gepaid: | CAL000379390 |
| TSD EPA ID: | NVD980895338 |
| CA Waste Code: | 122 - Alkaline solution without metals pH >= 12.5 |
| Disposal Method: | H121 - Neutralization Only |
| Tons: | 0.01300 |
| Year: | 2019 |
| Gepaid: | CAL000379390 |
| 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: | 0.00950 |
| Year: | 2019 |
| Gepaid: | CAL000379390 |
| 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: | 0.00800 |
| Year: | 2019 |
| Gepaid: | CAL000379390 |
| 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: | 0.01150 |
| Year: | 2018 |
| Gepaid: | CAL000379390 |
| 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) |

**DOLLAR TREE #03759 (Continued)** **S113802770**

Tons: 0.00800

Year: 2018
Gepaid: CAL000379390
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: 0.13500

Year: 2018
Gepaid: CAL000379390
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: 0.00800

Year: 2018
Gepaid: CAL000379390
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: 0.00550

Year: 2017
Gepaid: CAL000379390
TSD EPA ID: NVD980895338
CA Waste Code: 122 - Alkaline solution without metals pH >= 12.5
Disposal Method: H121 - Neutralization Only
Tons: 0.1195

Click this hyperlink while viewing on your computer to access
32 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2016
Gen EPA ID: CAL000379390

Shipment Date: 20150914
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 006226440FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: NED986382133
Trans 2 Name: SMITH SYSTEMS TRANSPORTATION INC
TSDF EPA ID: NVD980895338
Trans Name: 21ST CENTURY EMN LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 141 - Off-specification, aged, or surplus inorganics
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| Quantity Tons: | 0.0495 |
| Waste Quantity: | 99 |
| 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: | 20150914 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 006226440FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 141 - Off-specification, aged, or surplus inorganics |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.038 |
| Waste Quantity: | 76 |
| 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: | 20150914 |
| Creation Date: | 2/5/2016 22:15:10 |
| Receipt Date: | 20150922 |
| Manifest ID: | 006226440FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.003 |
| Waste Quantity: | 6 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150914 |
| Creation Date: | 2/5/2016 22:15:10 |
| Receipt Date: | 20150922 |
| Manifest ID: | 006226440FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D035 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0045 |
| Waste Quantity: | 9 |
| Quantity Unit: | P |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150914 |
| Creation Date: | 2/5/2016 22:15:10 |
| Receipt Date: | 20150922 |
| Manifest ID: | 006226440FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 122 - Alkaline solution without metals (pH > 12.5 |
| RCRA Code: | D002 |
| Meth Code: | H121 - Neutralization Only |
| Quantity Tons: | 0.0405 |
| Waste Quantity: | 81 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150914 |
| Creation Date: | 2/5/2016 22:15:10 |
| Receipt Date: | 20150922 |
| Manifest ID: | 006226440FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0045 |
| Waste Quantity: | 9 |
| 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: | 20150526 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 008491006FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 141 - Off-specification, aged, or surplus inorganics |
| RCRA Code: | Not reported |
| Meth Code: | 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: | 20150526 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 008491006FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.02 |
| 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: | 20150526 |
| Creation Date: | 11/25/2015 22:15:37 |
| Receipt Date: | 20150602 |
| Manifest ID: | 008491006FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D035 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.017 |
| Waste Quantity: | 34 |
| Quantity Unit: | P |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150526 |
| Creation Date: | 11/25/2015 22:15:37 |
| Receipt Date: | 20150602 |
| Manifest ID: | 008491006FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0075 |
| Waste Quantity: | 15 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2014 |
| Gen EPA ID: | CAL000379390 |
| Shipment Date: | 20141124 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 007263255FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 141 - Off-specification, aged, or surplus inorganics |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.077 |
| Waste Quantity: | 154 |
| 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: | 20141124 |
| Creation Date: | 5/18/2015 22:15:25 |
| Receipt Date: | 20141229 |
| Manifest ID: | 007263254FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.002 |
| Waste Quantity: | 4 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20141124 |
| Creation Date: | 5/11/2015 22:15:07 |
| Receipt Date: | 20141208 |
| Manifest ID: | 007263255FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D035 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.004 |
| Waste Quantity: | 8 |
| Quantity Unit: | P |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20141124 |
| Creation Date: | 5/11/2015 22:15:07 |
| Receipt Date: | 20141208 |
| Manifest ID: | 007263255FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.003 |
| Waste Quantity: | 6 |
| 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: | 20141124 |
| Creation Date: | 5/11/2015 22:15:07 |
| Receipt Date: | 20141208 |
| Manifest ID: | 007263255FLE |
| Trans EPA ID: | MNS000110924 |

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 122 - Alkaline solution without metals (pH > 12.5 |
| RCRA Code: | D002 |
| Meth Code: | H121 - Neutralization Only |
| Quantity Tons: | 0.044 |
| Waste Quantity: | 88 |
| 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: | 20141124 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 007263255FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 141 - Off-specification, aged, or surplus inorganics |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0955 |
| Waste Quantity: | 191 |
| 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: | 20141124 |
| Creation Date: | 5/11/2015 22:15:07 |
| Receipt Date: | 20141208 |
| Manifest ID: | 007263255FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0035 |
| 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: | 20141124 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 007263255FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.027 |
| Waste Quantity: | 54 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20140820 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 007239929FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 141 - Off-specification, aged, or surplus inorganics |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.054 |
| Waste Quantity: | 108 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20140820 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 007239929FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 141 - Off-specification, aged, or surplus inorganics |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.024 |
| Waste Quantity: | 48 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2013 |
| Gen EPA ID: | CAL000379390 |
| | |
| Shipment Date: | 20131118 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 006231669FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.036 |
| Waste Quantity: | 72 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| Shipment Date: | 20131118 |
| Creation Date: | 4/15/2014 22:15:05 |
| Receipt Date: | 20131206 |
| Manifest ID: | 006231669FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 131 - Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions |
| RCRA Code: | D001 |
| 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: | 20131118 |
| Creation Date: | 4/15/2014 22:15:05 |
| Receipt Date: | 20131206 |
| Manifest ID: | 006231669FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.014 |
| Waste Quantity: | 28 |
| 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: | 20131118 |
| Creation Date: | 4/15/2014 22:15:05 |
| Receipt Date: | 20131206 |
| Manifest ID: | 006231669FLE |
| Trans EPA ID: | MNS000110924 |

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0075 |
| Waste Quantity: | 15 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20131118 |
| Creation Date: | 4/15/2014 22:15:05 |
| Receipt Date: | 20131206 |
| Manifest ID: | 006231669FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 122 - Alkaline solution without metals (pH > 12.5 |
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0525 |
| Waste Quantity: | 105 |
| 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: | 20131118 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 006231669FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| Waste Code Description: | 561 - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.2195 |
| Waste Quantity: | 439 |
| 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: | 20131118 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 006231669FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.002 |
| Waste Quantity: | 4 |
| 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: | 20130509 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005894007FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.011 |
| Waste Quantity: | 22 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20130509 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005894007FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 561 - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.075 |
| Waste Quantity: | 150 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20130509 |
| Creation Date: | 10/17/2013 22:15:18 |
| Receipt Date: | 20130621 |
| Manifest ID: | 005894007FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.003 |
| Waste Quantity: | 6 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2017 |
| Gen EPA ID: | CAL000379390 |
| | |
| Shipment Date: | 20171206 |

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| Creation Date: | 8/3/2018 18:30:48 |
| Receipt Date: | 20180112 |
| Manifest ID: | 010685327FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 122 - Alkaline solution without metals (pH > 12.5 |
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.058 |
| Waste Quantity: | 116 |
| 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: | 20171206 |
| Creation Date: | 8/3/2018 18:30:48 |
| Receipt Date: | 20180112 |
| Manifest ID: | 010685327FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D035 |
| 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: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20171206 |
| Creation Date: | 8/3/2018 18:30:48 |
| Receipt Date: | 20180112 |
| Manifest ID: | 010685327FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS |

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM 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 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0015 |
| Waste Quantity: | 3 |
| 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: | 20171206 |
| Creation Date: | 8/3/2018 18:30:48 |
| Receipt Date: | 20180112 |
| Manifest ID: | 010685327FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM 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: | 0.1185 |
| Waste Quantity: | 237 |
| 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: | 20170818 |
| Creation Date: | 7/5/2018 18:32:15 |
| Receipt Date: | 20170824 |
| Manifest ID: | 010677334FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D035 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No |

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| | Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.001 |
| Waste Quantity: | 2 |
| Quantity Unit: | P |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20170818 |
| Creation Date: | 7/5/2018 18:32:15 |
| Receipt Date: | 20170824 |
| Manifest ID: | 010677334FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION |
| 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: | 0.0285 |
| Waste Quantity: | 57 |
| 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: | 20170818 |
| Creation Date: | 7/5/2018 18:32:15 |
| Receipt Date: | 20170824 |
| Manifest ID: | 010677334FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 122 - Alkaline solution without metals (pH > 12.5 |
| RCRA Code: | D002 |
| Meth Code: | H121 - Neutralization Only |
| Quantity Tons: | 0.0025 |
| Waste Quantity: | 5 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20170818 |
| Creation Date: | 7/5/2018 18:32:15 |
| Receipt Date: | 20170824 |
| Manifest ID: | 010677334FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION |
| 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: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.003 |
| Waste Quantity: | 6 |
| 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: | 20170330 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 010075567FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANS |
| 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: | 0.05 |
| 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: | 20170330 |
| Creation Date: | 5/11/2018 18:34:48 |
| Receipt Date: | 20170404 |
| Manifest ID: | 010075567FLE |
| Trans EPA ID: | MNS000110924 |

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANS |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 122 - Alkaline solution without metals (pH > 12.5 |
| RCRA Code: | D002 |
| Meth Code: | H121 - Neutralization Only |
| Quantity Tons: | 0.0345 |
| Waste Quantity: | 69 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2012 |
| Gen EPA ID: | CAL000379390 |
| | |
| Shipment Date: | 20121109 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005440940FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.0175 |
| Waste Quantity: | 35 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20121109 |
| Creation Date: | 4/9/2013 22:15:07 |
| Receipt Date: | 20121130 |
| Manifest ID: | 005440940FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.021 |
| Waste Quantity: | 42 |
| 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: | 20121109 |
| Creation Date: | 4/9/2013 22:15:07 |
| Receipt Date: | 20121130 |
| Manifest ID: | 005440940FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 561 - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| 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: | 20121109 |
| Creation Date: | 4/9/2013 22:15:07 |
| Receipt Date: | 20121130 |
| Manifest ID: | 005440940FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0025 |
| Waste Quantity: | 5 |

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| 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: | 20121109 |
| Creation Date: | 4/9/2013 22:15:07 |
| Receipt Date: | 20121130 |
| Manifest ID: | 005440940FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 122 - Alkaline solution without metals (pH > 12.5 |
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 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 |

Additional Info:

| | |
|---|---|
| Year: | 2015 |
| Gen EPA ID: | CAL000379390 |
| Shipment Date: | 20150914 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 006226440FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 141 - Off-specification, aged, or surplus inorganics |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0495 |
| Waste Quantity: | 99 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150914 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 006226440FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 141 - Off-specification, aged, or surplus inorganics |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.038 |
| Waste Quantity: | 76 |
| 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: | 20150914 |
| Creation Date: | 2/5/2016 22:15:10 |
| Receipt Date: | 20150922 |
| Manifest ID: | 006226440FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0045 |
| Waste Quantity: | 9 |
| 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: | 20150914 |
| Creation Date: | 2/5/2016 22:15:10 |
| Receipt Date: | 20150922 |

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| Manifest ID: | 006226440FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 122 - Alkaline solution without metals (pH > 12.5 |
| RCRA Code: | D002 |
| Meth Code: | H121 - Neutralization Only |
| Quantity Tons: | 0.0405 |
| Waste Quantity: | 81 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150914 |
| Creation Date: | 2/5/2016 22:15:10 |
| Receipt Date: | 20150922 |
| Manifest ID: | 006226440FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D035 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0045 |
| Waste Quantity: | 9 |
| Quantity Unit: | P |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150914 |
| Creation Date: | 2/5/2016 22:15:10 |
| Receipt Date: | 20150922 |
| Manifest ID: | 006226440FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.003 |
| Waste Quantity: | 6 |
| 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: | 20150526 |
| Creation Date: | 11/25/2015 22:15:37 |
| Receipt Date: | 20150602 |
| Manifest ID: | 008491006FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D035 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.017 |
| Waste Quantity: | 34 |
| Quantity Unit: | P |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150526 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 008491006FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.02 |
| Waste Quantity: | 40 |

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| 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: | 20150526 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 008491006FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 141 - Off-specification, aged, or surplus inorganics |
| RCRA Code: | Not reported |
| Meth Code: | 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: | 20150526 |
| Creation Date: | 11/25/2015 22:15:37 |
| Receipt Date: | 20150602 |
| Manifest ID: | 008491006FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0075 |
| Waste Quantity: | 15 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**DOLLAR TREE #03759 (Continued)** **S113802770**

CERS:
Name: DOLLAR TREE #03759
Address: 266 MOUNT HERMON RD STE B
City,State,Zip: SCOTTS VALLEY, CA 95066
Site ID: 112124
CERS ID: 10444474
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 112124
Site Name: Dollar Tree #03759
Violation Date: 07-03-2017
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description: Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes: Returned to compliance on 07/27/2017. Designated facility to generator generator copy of the uniform hazardous waste manifest for the March 2017 shipment not available during the inspection. Obtain that copy of the manifest and make available for review.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 112124
Site Name: Dollar Tree #03759
Violation Date: 07-15-2013
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 07/02/2014.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 112124
Site Name: Dollar Tree #03759
Violation Date: 07-01-2016
Citation: 22 CCR 15 66265.174 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.174
Violation Description: Failure to inspect weekly, areas where hazardous waste containers are stored or transferred. The owner or operator shall look for leaking containers and for deterioration of containers and the containment system caused by corrosion or other factors.
Violation Notes: Returned to compliance on 07/27/2016. Hazardous waste inspections being conducted conducted monthly or twice a month according to the inspection log. Conduct inspections at a minimum weekly.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HW
Violation Source: CERS

**DOLLAR TREE #03759 (Continued)** **S113802770**

Site ID: 112124
Site Name: Dollar Tree #03759
Violation Date: 07-01-2016
Citation: HSC 6.5 25160.2 - California Health and Safety Code, Chapter 6.5, Section(s) 25160.2
Violation Description: Failure of a generator of hazardous waste that meets the conditions to be transported on a consolidated manifest to comply with one or more of the required consolidated manifesting procedures.
Violation Notes: Returned to compliance on 07/06/2016. Copies of manifests not available for review. Make copies of the last years manifests available for review.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-01-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-01-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-01-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Joseph King, Store Manager.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-01-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Joseph King, store manager.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-01-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 07-01-2019 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | inspection authorized by Juzhum Alivova, Manager. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 07-02-2014 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 07-02-2014 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 07-02-2018 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 07-02-2018 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Inspection authorized Jazhum Alivovia, Store Manager. |
| Eval Division: | Santa Cruz County Environmental Health |
| 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: | Inspection authorized by Joseph King, Store Manager. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 07-03-2017 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 07-06-2016 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | The designated facility to generator copy of the May 2015manifest has been received and abates the violation noted on the previous inspection. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 07-10-2020 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 07-10-2020 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Inspection authorized by Juzhum Alivova, Store Manager. The Operator's signature was not obtained on the inspection report due to COVID-19 constraints. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 07-15-2013 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 07-15-2013 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |

**DOLLAR TREE #03759 (Continued)** **S113802770**

Enforcement Action:

| | |
|---|---|
| Site ID: | 112124 |
| Site Name: | Dollar Tree #03759 |
| Site Address: | 266 MOUNT HERMON RD STE B |
| Site City: | SCOTTS VALLEY |
| Site Zip: | 95066 |
| Enf Action Date: | 07-01-2016 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Santa Cruz County Environmental Health |
| Enf Action Program: | HW |
| Enf Action Source: | CERS |

| | |
|---|---|
| Site ID: | 112124 |
| Site Name: | Dollar Tree #03759 |
| Site Address: | 266 MOUNT HERMON RD STE B |
| Site City: | SCOTTS VALLEY |
| Site Zip: | 95066 |
| Enf Action Date: | 07-03-2017 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Santa Cruz County Environmental Health |
| Enf Action Program: | HW |
| Enf Action Source: | CERS |

| | |
|---|---|
| Site ID: | 112124 |
| Site Name: | Dollar Tree #03759 |
| Site Address: | 266 MOUNT HERMON RD STE B |
| Site City: | SCOTTS VALLEY |
| Site Zip: | 95066 |
| Enf Action Date: | 07-15-2013 |
| 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 Cruz County Environmental Health |
| Enf Action Program: | HW |
| Enf Action Source: | CERS |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | CUPA District |
| Entity Name: | Santa Cruz County Environmental Health |
| Entity Title: | Not reported |
| Affiliation Address: | 701 Ocean Boulevard, Suite 312 |
| Affiliation City: | Santa Cruz |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95060 |
| Affiliation Phone: | (831) 454-2022 |

| | |
|---|---|
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | Angela Jones |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | Stephanie Caiati |
| Entity Title: | Not reported |
| Affiliation Address: | 500 Volvo Pkwy |
| Affiliation City: | Chesapeake |
| Affiliation State: | VA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 23320 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | Dollar Tree Stores, Inc. |
| Entity Title: | Not reported |
| Affiliation Address: | 500 Volvo Pkwy |
| Affiliation City: | Chesapeake |
| Affiliation State: | VA |
| Affiliation Country: | United States |
| Affiliation Zip: | 23320 |
| Affiliation Phone: | (757) 321-5000 |
| | |
| Affiliation Type Desc: | Operator |
| Entity Name: | Dollar Tree Stores, Inc. |
| 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: | (757) 321-5000 |
| | |
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | Dollar Tree Stores, Inc. |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Angela Jones |
| Entity Title: | EH&S Specialist |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Property Owner |
| Entity Name: | Scotts Valley Phase II c/o Pratt Goldsmith, Inc. |

**DOLLAR TREE #03759 (Continued)** **S113802770**

| | |
|---|---|
| Entity Title: | Not reported |
| Affiliation Address: | 1606 North Main Street |
| Affiliation City: | Salinas |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 93906 |
| Affiliation Phone: | (831) 449-6672 |
| | |
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | 500 Volvo Pkwy EH&S |
| Affiliation City: | Chesapeake |
| Affiliation State: | VA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 23320 |
| Affiliation Phone: | Not reported |

---

**C32** **DOLLAR TREE #03759** **RCRA NonGen / NLR** **1024836279**
**NNE** **266 MOUNT HERMON RD STE B** **CAL000379390**
**< 1/8** **SCOTTS VALLEY, CA 95066**
**0.044 mi.**
**231 ft.** **Site 18 of 19 in cluster C**

**Relative:** **Lower**

**Actual:** **512 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 2012-10-31 00:00:00.0 |
| Handler Name: | DOLLAR TREE #03759 | |
| Handler Address: | | 266 MOUNT HERMON RD STE B |
| Handler City,State,Zip: | | SCOTTS VALLEY, CA 95066-4010 |
| EPA ID: | | CAL000379390 |
| Contact Name: | | ANGELA JONES |
| Contact Address: | | 500 VOLVO PKWY |
| Contact City,State,Zip: | | CHESAPEAKE, VA 23320-1604 |
| Contact Telephone: | | 757-321-5761 |
| Contact Fax: | | 757-321-5160 |
| Contact Email: | | AJONES@DOLLARTREE.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: | | 500 VOLVO PKWY |
| Mailing City,State,Zip: | | CHESAPEAKE, VA 23320-1604 |
| Owner Name: | | DOLLAR TREE STORES, INC. |
| Owner Type: | | Other |
| Operator Name: | | ANGELA JONES |
| Operator Type: | | Other |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |

**DOLLAR TREE #03759 (Continued)** **1024836279**

| | |
|---|---|
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2018-09-06 17:01:32.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | ANGELA JONES |
| Legal Status: | Other |
| Date Became Current: | Not reported |

**DOLLAR TREE #03759 (Continued)** **1024836279**

| | |
|---|---|
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 500 VOLVO PKWY |
| Owner/Operator City,State,Zip: | CHESAPEAKE, VA 23320-1604 |
| Owner/Operator Telephone: | 757-321-5761 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | DOLLAR TREE STORES, INC. |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 500 VOLVO PKWY |
| Owner/Operator City,State,Zip: | CHESAPEAKE, VA 23320-1604 |
| Owner/Operator Telephone: | 757-321-5000 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 2012-10-31 00:00:00.0 |
| Handler Name: DOLLAR TREE #03759 | |
| 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: | 45299 |
| NAICS Description: | ALL OTHER GENERAL MERCHANDISE STORES |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

Evaluation Action Summary:

| | |
|---|---|
| Evaluations: | No Evaluations Found |

---

**C33** **SCOTTS VALLEY SQUARE** **SEMS-ARCHIVE** **1000893650**
**NNE** **266 MOUNT HERMON ROAD** **CA0000565762**
**< 1/8** **SCOTTS VALLEY, CA 95066**
**0.044 mi.**
**231 ft.** **Site 19 of 19 in cluster C**

**Relative:** **Lower**

**Actual:** **512 ft.**

SEMS Archive:

| | |
|---|---|
| Site ID: | 0905125 |
| EPA ID: | CA0000565762 |
| Name: | SCOTTS VALLEY SQUARE |
| Address: | 266 MOUNT HERMON ROAD |

**SCOTTS VALLEY SQUARE (Continued)** **1000893650**

Address 2: Not reported
City,State,Zip: SCOTTS VALLEY, CA 95066
Cong District: 16
FIPS Code: 06087
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: 0905125
EPA ID: CA0000565762
Site Name: SCOTTS VALLEY SQUARE
NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 2004-05-25 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 09
Site ID: 0905125
EPA ID: CA0000565762
Site Name: SCOTTS VALLEY SQUARE
NPL: N
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1994-08-10 04:00:00
Finish Date: 1994-08-10 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0905125
EPA ID: CA0000565762
Site Name: SCOTTS VALLEY SQUARE
NPL: N
FF: N
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: 2000-08-15 04:00:00
Finish Date: 2001-05-30 04:00:00
Qual: N
Current Action Lead: St Perf

**D34** **ART CLEANERS** **CERS HAZ WASTE** **S105030749**
**ENE** **245 MOUNT HERMON RD STE G** **DRYCLEANERS** **N/A**
**< 1/8** **SCOTTS VALLEY, CA 95066** **CERS**
**0.072 mi.**
**379 ft.** **Site 3 of 10 in cluster D**

**Relative:**
**Lower**

**Actual:**
**516 ft.**

CERS HAZ WASTE:

| | |
|---|---|
| Name: | ART CLEANERS |
| Address: | 245 MOUNT HERMON RD STE G |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Site ID: | 361143 |
| CERS ID: | 10650826 |
| CERS Description: | Hazardous Waste Generator |

DRYCLEANERS:

| | |
|---|---|
| Name: | ART CLEANERS |
| Address: | 245 MOUNT HERMON RD STE G |
| City,State,Zip: | SCOTTS VALLEY, CA 950660000 |
| EPA Id: | CAL000139301 |
| NAICS Code: | 81232 |
| NAICS Description: | Drycleaning and Laundry Services (except Coin-Operated) |
| SIC Code: | 7211 |
| SIC Description: | Power Laundries, Family and Commercial |
| Create Date: | 06/24/1997 |
| Facility Active: | No |
| Inactive Date: | 06/30/2006 |
| Facility Addr2: | Not reported |
| Owner Name: | MOONEY LEE |
| Owner Address: | 245 MOUNT HERMON RD STE G |
| Owner Address 2: | Not reported |
| Owner Telephone: | 8314383431 |
| Contact Name: | MOONEY LEE-OWNER |
| Contact Address: | 245 MOUNT HERMON RD STE G |
| Contact Address 2: | Not reported |
| Contact Telephone: | 8314383431 |
| Mailing Name: | Not reported |
| Mailing Address 1: | 245 MOUNT HERMON RD STE G |
| Mailing Address 2: | Not reported |
| Mailing City: | SCOTTS VALLEY |
| Mailing State: | CA |
| Mailing Zip: | 950660000 |
| Owner Fax: | Not reported |
| Region Code: | 2 |

| | |
|---|---|
| Name: | ART CLEANERS |
| Address: | 245 MOUNT HERMON RD STE G |
| City,State,Zip: | SCOTTS VALLEY, CA 950664044 |
| EPA Id: | CAL000312240 |
| NAICS Code: | 81232 |
| NAICS Description: | Drycleaning and Laundry Services (except Coin-Operated) |
| SIC Code: | 7211 |
| SIC Description: | Power Laundries, Family and Commercial |
| Create Date: | 10/04/2006 |
| Facility Active: | No |
| Inactive Date: | 06/30/2008 |
| Facility Addr2: | Not reported |
| Owner Name: | PETER KIM |
| Owner Address: | 399 SAN TOMAS AQUINO RD |
| Owner Address 2: | Not reported |

**ART CLEANERS (Continued)** **S105030749**

| | |
|---|---|
| Owner Telephone: | 4083185979 |
| Contact Name: | PETER KIM |
| Contact Address: | 245 MOUNT HERMON RD STE G |
| Contact Address 2: | Not reported |
| Contact Telephone: | 8314383431 |
| Mailing Name: | Not reported |
| Mailing Address 1: | 245 MOUNT HERMON RD STE G |
| Mailing Address 2: | Not reported |
| Mailing City: | SCOTTS VALLEY |
| Mailing State: | CA |
| Mailing Zip: | 950664044 |
| Owner Fax: | Not reported |
| Region Code: | 2 |

CERS:

| | |
|---|---|
| Name: | ART CLEANERS |
| Address: | 245 MOUNT HERMON RD STE G |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Site ID: | 361143 |
| CERS ID: | 10650826 |
| CERS Description: | Chemical Storage Facilities |

Violations:

| | |
|---|---|
| Site ID: | 361143 |
| Site Name: | Art Cleaners |
| Violation Date: | 11-02-2015 |
| Citation: | HSC 6.95 25508.1(a)-(e) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(e) |
| Violation Description: | Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. |
| Violation Notes: | Returned to compliance on 11/24/2015. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HMRRP |
| Violation Source: | CERS |

| | |
|---|---|
| Site ID: | 361143 |
| Site Name: | Art Cleaners |
| Violation Date: | 11-02-2018 |
| Citation: | 22 CCR 15 66265.197 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.197 |
| Violation Description: | Failure of owner or operator to properly close a hazardous waste tank system ensuring the minimization of further maintenance and that the required requirements have been met. |
| Violation Notes: | Returned to compliance on 11/04/2019. Hazardous waste w.ith start of accumulation date older than 180 days. Do not store hazardous waste longer than 180 days past the accumulation date. Dispose of the waste in the hazardous waste drum. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |

| | |
|---|---|
| Site ID: | 361143 |
| Site Name: | Art Cleaners |

**ART CLEANERS (Continued)** **S105030749**

Violation Date: 11-02-2015
Citation: 22 CCR 31 67100.8 - California Code of Regulations, Title 22, Chapter 31, Section(s) 67100.8
Violation Description: Failure of the generator to prepare a hazardous waste management performance report every four years. The report shall contain sufficient detail to convey an understanding of the hazardous waste management approaches used at the site, using narratives, photographs, illustrations, figures or data as necessary, which includes, at a minimum, all of the following: 1) Name and location of the site 2) Four digit SIC code(s) for the site 3) All of the following information for each waste stream identified: A) An estimate, in pounds, of the quantity of hazardous waste generated and the quantity of hazardous waste managed, both onsite and offsite, during the current reporting year and the baseline year; B) A description of current hazardous waste management approaches and identification of all approaches implemented since the baseline year; C) An assessment of the effect, since the baseline year, of each implemented hazardous waste management approach on the weight of hazardous waste generated, the properties which cause it to be classified as a hazardous waste and/or the onsite and offsite management of hazardous waste. The report shall consider, but shall not be limited to all of the following approaches: 1. Source reduction; 2. Onsite or offsite recycling; 3. Onsite or offsite treatment; and D) A description of factors during the current reporting year that have affected hazardous waste generation and onsite and offsite hazardous waste management since the baseline year, including, but not limited to, any of the following: 1. Changes in business activity; 2. Changes in waste classification; 3. Natural phenomena and; 4. Other factors that have affected either the quantity of hazardous waste generated or onsite and offsite hazardous waste management requirements.
Violation Notes: Returned to compliance on 11/01/2016.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-30-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-30-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Mr. Kim Ki Soo, Owner. I authorize Santa Cruz County to submit the HMBP Recertification.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-01-2016

**ART CLEANERS (Continued)** **S105030749**

| | |
|---|---|
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 11-01-2016 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Inspection authorized by Mr. Kim, owner. Mr. Kim requests that EH do the annual business plan submittal for him. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 11-02-2015 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 11-02-2015 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 11-02-2018 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | inspection authorized by Mr. Kim Ki Soo, Owner. Mr. Kim Ki Soo has authorized Santa Cruz County Environmental Health to submit/re-certify the hazardous materials business plan in CERS. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 11-02-2018 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 11-04-2019 |

**ART CLEANERS (Continued)** **S105030749**

Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-04-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Mr. Kim Ki Soo, Owner.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-12-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-12-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-14-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-14-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 361143
Site Name: Art Cleaners
Site Address: 245 MOUNT HERMON RD STE G
Site City: SCOTTS VALLEY

**ART CLEANERS (Continued)** **S105030749**

Site Zip: 95066
Enf Action Date: 11-02-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 361143
Site Name: Art Cleaners
Site Address: 245 MOUNT HERMON RD STE G
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 11-02-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 361143
Site Name: Art Cleaners
Site Address: 245 MOUNT HERMON RD STE G
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 11-02-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Kim Ki Soo
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: Santa Cruz County Environmental Health
Entity Title: Not reported
Affiliation Address: 701 Ocean Boulevard, Suite 312
Affiliation City: Santa Cruz
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95060
Affiliation Phone: (831) 454-2022

Affiliation Type Desc: Facility Mailing Address

**ART CLEANERS (Continued)** **S105030749**

| | |
|---|---|
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | 245 Mount Hermon Rd Ste G |
| Affiliation City: | Scotts Valley |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95066 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Kim Ki Soo |
| Entity Title: | Owner |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | Kim Ki Soo |
| Entity Title: | Not reported |
| Affiliation Address: | 245 Mount Hermon Rd Ste G |
| Affiliation City: | Scotts Valley |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 95066 |
| Affiliation Phone: | (831) 438-3431 |
| | |
| Affiliation Type Desc: | Operator |
| Entity Name: | Kim Ki Soo |
| 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: | (831) 438-3431 |
| | |
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | Kim Ki Soo |
| Entity Title: | Not reported |
| Affiliation Address: | 245 Mount Hermon Rd Ste G |
| Affiliation City: | Scotts Valley |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95066 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | Art 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 |

**ART CLEANERS (Continued)** **S105030749**

Affiliation Phone: Not reported

---

**D35** **SUN KIM** **EDR Hist Cleaner** **1020097767**
**ENE** **245 G MT HERMAN ROAD** **N/A**
**< 1/8** **SCOTTS VALLEY, CA 95066**
**0.072 mi.**
**379 ft.** **Site 4 of 10 in cluster D**

**Relative:** EDR Hist Cleaner
**Lower**

**Actual:** **516 ft.**

| Year: | Name: | Type: |
|---|---|---|
| 1989 | SUN KIM | Drycleaning Plants, Except Rugs, NEC |
| 1990 | SUN KIM | Drycleaning Plants, Except Rugs, NEC |

---

**D36** **ART DRY CLEANERS** **CPS-SLIC** **S107737690**
**ENE** **245-G MOUNT HERMON ROAD** **CERS** **N/A**
**< 1/8** **SCOTTS VALLEY, CA 95067**
**0.072 mi.**
**379 ft.** **Site 5 of 10 in cluster D**

**Relative:** SLIC REG 3:
**Lower**

**Actual:** **516 ft.**

| | |
|---|---|
| Name: | ART DRY CLEANERS |
| Address: | 245-G MOUNT HERMON ROAD |
| City: | SCOTTS VALLEY |
| Region: | 3 |
| Leak Site Cross Street: | Not reported |
| Regional Board Case#: | s373 |
| Entered Into Database: | Not reported |
| Discovered: | Not reported |
| RB Case In: | THE PRATT COMPANY |
| Responsible Party: | RUSSELL PRATT |
| RP Contact: | Not reported |
| RP Phone: | Not reported |
| RP Number: | Not reported |
| RP Address: | 425 CALIFORNIA ST, SUITE 200 |
| RP City,St,Zip: | SAN FRANCISCO, CA 94101 |
| Date First Reported: | 9-Mar-06 |
| Lead Agency: | Regional Board |
| Program Type: | SLIC |
| Facility Status: | Leak Being Confirmed |
| Case Type: | Not reported |
| Case Type Undetermined: | No |
| Case Type Soil Impacted: | No |
| Case Type Surface Water: | No |
| Case Type Drinkin Water Well: | No |
| Case Type Drinking Water Aqfr: | No |
| Case Type Other Grnd Wtr: | No |
| PCA: | Not reported |

CPS-SLIC:

| | |
|---|---|
| Name: | ART DRY CLEANERS |
| Address: | 245-G MOUNT HERMON ROAD |
| City,State,Zip: | SCOTTS VALLEY, CA 95067 |
| Region: | STATE |
| **Facility Status:** | **Completed - Case Closed** |

**ART DRY CLEANERS (Continued)** **S107737690**

| | |
|---|---|
| Status Date: | 04/20/2006 |
| Global Id: | SL0608724127 |
| Lead Agency: | CENTRAL COAST RWQCB (REGION 3) |
| Lead Agency Case Number: | Not reported |
| Latitude: | 37.047036 |
| Longitude: | -122.030432 |
| Case Type: | Cleanup Program Site |
| Case Worker: | TT |
| Local Agency: | SANTA CRUZ COUNTY |
| RB Case Number: | s373 |
| File Location: | Not reported |
| Potential Media Affected: | Not reported |
| Potential Contaminants of Concern: | Tetrachloroethylene (PCE) |
| Site History: | Not reported |

Click here to access the California GeoTracker records for this facility:

CERS:

| | |
|---|---|
| Name: | ART DRY CLEANERS |
| Address: | 245-G MOUNT HERMON ROAD |
| City,State,Zip: | SCOTTS VALLEY, CA 95067 |
| Site ID: | 260846 |
| CERS ID: | SL0608724127 |
| CERS Description: | Cleanup Program Site |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Local Agency Caseworker |
| Entity Name: | SCOTT CARSON - SANTA CRUZ COUNTY |
| Entity Title: | Not reported |
| Affiliation Address: | 701 Ocean Street, Room 312 |
| Affiliation City: | SANTA CRUZ |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Regional Board Caseworker |
| Entity Name: | THEA TRYON - CENTRAL COAST RWQCB (REGION 3) |
| Entity Title: | Not reported |
| Affiliation Address: | 805 AEROVISTA PLACE, SUITE 101 |
| Affiliation City: | SAN LUIS OBSIPO |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

---

**D37** **O'REILLY AUTO PARTS #2580** **CERS HAZ WASTE** **S121787444**
**ENE** **245 MOUNT HERMON RD STE B** **CERS** **N/A**
**< 1/8** **SCOTTS VALLEY, CA 95066**
**0.072 mi.**
**379 ft.** **Site 6 of 10 in cluster D**

**Relative:** **Lower**

**Actual:** **516 ft.**

CERS HAZ WASTE:

| | |
|---|---|
| Name: | O'REILLY AUTO PARTS #2580 |
| Address: | 245 MOUNT HERMON RD STE B |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Site ID: | 52984 |

**O'REILLY AUTO PARTS #2580 (Continued)** **S121787444**

CERS ID: 10397323
CERS Description: Hazardous Waste Generator

CERS:
Name: O'REILLY AUTO PARTS #2580
Address: 245 MOUNT HERMON RD STE B
City,State,Zip: SCOTTS VALLEY, CA 95066
Site ID: 52984
CERS ID: 10397323
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 52984
Site Name: O'Reilly Auto Parts #2580
Violation Date: 02-05-2019
Citation: 22 CCR 23 66273.35 - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.35
Violation Description: Failure to accumulate universal waste for one year or less and to demonstrate the length of time that the universal waste has been accumulated from the date it became a waste or was received.
Violation Notes: Returned to compliance on 03/15/2019. Three universal waste containers with start of accumulation dates older than one year. Universal waste shall be hauled for disposal within one year of the start of accumulation date.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 52984
Site Name: O'Reilly Auto Parts #2580
Violation Date: 02-12-2018
Citation: 22 CCR 12 66262.23(a)(4) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.23(a)(4)
Violation Description: Failure to send a legible copy of each hazardous waste manifest to the Department within 30 days of each shipment of hazardous waste.
Violation Notes: Returned to compliance on 03/28/2018. A copy of the uniform hazardous waste manifest is not being sent to DTSC within 30 days. Send a copy of the uniform hazardous waste manifest to DTSC as required by CCR-T22.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 52984
Site Name: O'Reilly Auto Parts #2580
Violation Date: 02-12-2020
Citation: 22 CCR 23 66273.35 - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.35
Violation Description: Failure to accumulate universal waste for one year or less and to demonstrate the length of time that the universal waste has been accumulated from the date it became a waste or was received.
Violation Notes: Returned to compliance on 03/11/2020. Container holding aerosol cans without start of accumulation date. Place the date when collection starts on containers holding aerosol cans.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HW
Violation Source: CERS

**O'REILLY AUTO PARTS #2580 (Continued)** **S121787444**

| | |
|---|---|
| Site ID: | 52984 |
| Site Name: | O'Reilly Auto Parts #2580 |
| Violation Date: | 02-12-2018 |
| Citation: | 22 CCR 12 66262.23(a)(4) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.23(a)(4) |
| Violation Description: | Failure to send a legible copy of each hazardous waste manifest to the Department within 30 days of each shipment of hazardous waste. |
| Violation Notes: | Returned to compliance on 03/28/2018. No indication found or proof provided that a copy of the uniform hazardous waste manifest is being sent within 30 days of a shipment to DTSC. Send a legible copy of the uniform hazardous waste manifest within 30 days of a hazardous waste shipment to DTSC. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |

| | |
|---|---|
| Site ID: | 52984 |
| Site Name: | O'Reilly Auto Parts #2580 |
| Violation Date: | 02-12-2018 |
| Citation: | 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f) |
| Violation Description: | Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date. |
| Violation Notes: | Returned to compliance on 03/28/2018. Oil filter drums are not labeled with start of accumulation dates. Place the appropriate start of accumulation date on all containers holding hazardous waste including hazardous waste oil filters. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |

| | |
|---|---|
| Site ID: | 52984 |
| Site Name: | O'Reilly Auto Parts #2580 |
| Violation Date: | 02-12-2018 |
| Citation: | HSC 6.5 25123.3(h) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h) |
| Violation Description: | Failure to determine the status of any hazardous waste if a signed copy of the manifest isnG t received within 35 days of the date the waste was accepted by the initial transporter and/or to submit an Exception Report to DTSC if a signed copy of the manifest isnG t received within 60 days of the date the waste was accepted by the initial transporter. |
| Violation Notes: | Returned to compliance on 03/28/2018. Additional designated facility to generator copies of uniform hazardous waste manifests for 2017 shipments have been found, only the one for a 09-11-17 is missing and no indication has been presented that the exception report has been sent to DTSC. Make a copy of the designated facility to generator uniform hazardous waste manifest for 09-11-17 available for review or show that an exception report has been sent to DTSC. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |

Site ID: 52984

**O'REILLY AUTO PARTS #2580 (Continued)** **S121787444**

| | |
|---|---|
| Site Name: | O'Reilly Auto Parts #2580 |
| Violation Date: | 02-27-2017 |
| Citation: | HSC 6.5 25244.19 - California Health and Safety Code, Chapter 6.5, Section(s) 25244.19 |
| Violation Description: | Failure of a generator to conduct, when required, a source reduction evaluation review and plan every four years, and/or failure of the review and plan to contain all required information. |
| Violation Notes: | Returned to compliance on 09/19/2018. Undrained used oil filter container and paper or non recyclable oil filter container are not labeled with all the required information. Keep those containers labeled with all the information required by CCR-T22. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |
| | |
| Site ID: | 52984 |
| Site Name: | O'Reilly Auto Parts #2580 |
| Violation Date: | 03-30-2016 |
| Citation: | 22 CCR 12 66262.42 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.42 |
| Violation Description: | Failure to complete the uniform hazardous waste manifest exception requirements. |
| Violation Notes: | Returned to compliance on 04/11/2016. Operator could not produce the designated facility to generator copy of uniform hazardous waste manifest number 005031885SKS for a hazardous waste shipment that occurred more than 45 days prior and had not submitted an exception report. obtain a signed designated facility to generator copy of the manifest, manage hazardous waste documentation as required by CCR T22, chapter 12 Section 66262.42. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |
| | |
| Site ID: | 52984 |
| Site Name: | O'Reilly Auto Parts #2580 |
| Violation Date: | 03-16-2018 |
| Citation: | HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1) |
| Violation Description: | Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days. |
| Violation Notes: | Returned to compliance on 03/28/2018. Used oil filter drums are now dated but the dates are older than 180 days and there is a possibility that the facility fits into the large quantity generator category. Determine each month during a collection cycle which category of generator the store fits into. If the store fits into the small quantity generator for the entire cycle, do not store the waste longer than 180 days. If the store becomes a large quantity generator during any month, do nnot store the waste longer than 90 days. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HW |

**O'REILLY AUTO PARTS #2580 (Continued)** **S121787444**

| | |
|---|---|
| Violation Source: | CERS |
| Site ID: | 52984 |
| Site Name: | O'Reilly Auto Parts #2580 |
| Violation Date: | 02-12-2018 |
| Citation: | HSC 6.5 25123.3(h) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h) |
| Violation Description: | Failure to determine the status of any hazardous waste if a signed copy of the manifest isnG t received within 35 days of the date the waste was accepted by the initial transporter and/or to submit an Exception Report to DTSC if a signed copy of the manifest isnG t received within 60 days of the date the waste was accepted by the initial transporter. |
| Violation Notes: | Returned to compliance on 03/28/2018. The designated facility to generator copy of the uniform hazardous waste manifest is not available for review for some manifests and all copies are apparently not available in some instances, only one manifest available for the year 2017 where there should be several. Obtain the designated facility to generator copy of the uniform hazardous waste manifest for any shipments where the shipment was hauled under such manifest and a copy is not available for review. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |
| Site ID: | 52984 |
| Site Name: | O'Reilly Auto Parts #2580 |
| Violation Date: | 04-11-2014 |
| Citation: | 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f) |
| Violation Description: | Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date. |
| Violation Notes: | Returned to compliance on 08/04/2014. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |
| Site ID: | 52984 |
| Site Name: | O'Reilly Auto Parts #2580 |
| Violation Date: | 02-05-2019 |
| Citation: | 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f) |
| Violation Description: | Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date. |
| Violation Notes: | Returned to compliance on 03/15/2019. Drums in which oil filters and other oil contaminated materials are stored are not labeled with the start of accumulation date, one of the drums had what should have been the required date overwritten with a squiggle. Label containers holding hazardous waste with the applicable start of accumulation date. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HW |

**O'REILLY AUTO PARTS #2580 (Continued)** **S121787444**

Violation Source: CERS

Evaluation:

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Maria Rolf, Store Manager.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-12-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Maria Rolf, Store Manager.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-12-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-12-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Maria Rolf, Store Manager. By historical patterns and routine practice there probably was a pick-up of oily solids (oil filters, etc.) but there is no manifest available for review. Determine whether or not a pick-up took place about 10-19. If there was one make the manifest available for review.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-12-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: By historical patterns and routine practice there probably was a

**O'REILLY AUTO PARTS #2580 (Continued)** **S121787444**

| | |
|---|---|
| | pick-up of oily solids (oil filters, etc.) but there is no manifest available for review. Determine whether or not a pick-up took place about 10-19. If there was one make the manifest available for review. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 02-27-2017 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Inspection authorized by Doug Congrove, Store Manager. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 02-27-2017 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 03-11-2020 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Hazardous wastes were hauled on this date. Labeling of containers is not required at this time. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 03-11-2020 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Inspection authorized by Maria Rolf, Manager. Hazardous wastes were hauled on this date. Labeling of containers is not required at this time. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 03-15-2019 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | inspection authorized by Maria Rolf, Store Manager. Hazardous waste violations noted on the inspection report of 02-05-19 have been abated. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |

**O'REILLY AUTO PARTS #2580 (Continued)** **S121787444**

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 03-16-2018 |
| Violations Found: | Yes |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Inspection authorized by Maria Rolf, Store Manager. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 03-28-2018 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Inspection authorized by Maria Rolf, Store Manager. O'Reilly Regulatory Compliance Manager reported that labeling and storage/management violations and documentation management violations had been corrected. Documentation review and on site observations and an employee interview indicate that all violations have been abated and retraining has taken place. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 03-30-2016 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Inspection conducted accompanied by edwin Pizzaro, store manager. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 03-30-2016 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Inspection conducted accompanied by Edwin Pizzaro, store manager. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 04-01-2015 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 04-01-2015 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |

**O'REILLY AUTO PARTS #2580 (Continued)** **S121787444**

Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-11-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-11-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 52984
Site Name: O'Reilly Auto Parts #2580
Site Address: 245 MOUNT HERMON RD STE B
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 02-12-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 52984
Site Name: O'Reilly Auto Parts #2580
Site Address: 245 MOUNT HERMON RD STE B
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 02-27-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 52984
Site Name: O'Reilly Auto Parts #2580
Site Address: 245 MOUNT HERMON RD STE B
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 03-16-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health

**O'REILLY AUTO PARTS #2580 (Continued)** **S121787444**

Enf Action Program: HW
Enf Action Source: CERS

Site ID: 52984
Site Name: O'Reilly Auto Parts #2580
Site Address: 245 MOUNT HERMON RD STE B
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 03-30-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 52984
Site Name: O'Reilly Auto Parts #2580
Site Address: 245 MOUNT HERMON RD STE B
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 04-11-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: Verisk 3E, Reg. Dept. /OG Reilly Auto Parts, 3207 Grey Hawk Ct, Ste 200
Affiliation City: Carlsbad
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92010
Affiliation Phone: Not reported

Affiliation Type Desc: Document Preparer
Entity Name: John Koning, Agent for O'Reilly Auto Enterprises, L.L.C.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: O'Reilly Auto Enterprises, L.L.C.
Entity Title: Not reported
Affiliation Address: 702 E Bethany Home Rd
Affiliation City: Phoenix
Affiliation State: AZ

**O'REILLY AUTO PARTS #2580 (Continued)** **S121787444**

| | |
|---|---|
| Affiliation Country: | United States |
| Affiliation Zip: | 85014 |
| Affiliation Phone: | (417) 862-3333 |
| | |
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | John Koning, Agent for O'Reilly Auto Enterprises, L.L.C. |
| Entity Title: | Regulatory Compliance Specialist, Verisk 3E |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Operator |
| Entity Name: | O'Reilly Auto Enterprises, L.L.C. |
| 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: | (417) 862-3333 |
| | |
| Affiliation Type Desc: | CUPA District |
| Entity Name: | Santa Cruz County Environmental Health |
| Entity Title: | Not reported |
| Affiliation Address: | 701 Ocean Boulevard, Suite 312 |
| Affiliation City: | Santa Cruz |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95060 |
| Affiliation Phone: | (831) 454-2022 |
| | |
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | Verisk 3E, Regulatory Department/O'Reilly Auto Parts |
| Entity Title: | Not reported |
| Affiliation Address: | 3207 Grey Hawk Ct, Ste 200 |
| Affiliation City: | Carlsbad |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92010 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | O'Reilly Auto Parts |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

**D38 DELIAS CLEANERS** **EDR Hist Cleaner** **1018504062**
**ENE 245 G MT HERMON** **N/A**
**< 1/8 SANTA CRUZ, CA 95066**
**0.072 mi.**
**379 ft. Site 7 of 10 in cluster D**

**Relative:** EDR Hist Cleaner
**Lower**

**Actual:** Year: Name: Type:
**516 ft.** 1987 DELIAS CLEANERS Garment Pressing And Cleaners' Agents
1988 DELIAS CLEANERS Garment Pressing And Cleaners' Agents
1989 DELIAS CLEANERS Garment Pressing And Cleaners' Agents
1990 DELIAS CLEANERS Garment Pressing And Cleaners' Agents

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**D39 O'REILLY AUTO PARTS #2580** **CUPA Listings** **S120050141**
**ENE 245 MOUNT HERMON RD** **N/A**
**< 1/8 SCOTTS VALLEY, CA 95066**
**0.072 mi.**
**379 ft. Site 8 of 10 in cluster D**

**Relative:** CUPA SANTA CRUZ:
**Lower**
Name: O'REILLY AUTO PARTS #2580
**Actual:** Address: 245 MOUNT HERMON RD
**516 ft.** City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0003262
Cross Street: KINGS VILLAGE ROAD
Description: HMMP STANDARD FORM FILING FEE

Name: O'REILLY AUTO PARTS #2580
Address: 245 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0003262
Cross Street: KINGS VILLAGE ROAD
Description: HAZARDOUS WASTE GENERATOR (HMMP STD FORM)

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**D40 O'REILLY AUTO PARTS #2580** **RCRA NonGen / NLR** **1024842170**
**ENE 245 MOUNT HERMON RD STE B** **CAL000392498**
**< 1/8 SCOTTS VALLEY, CA 95066**
**0.072 mi.**
**379 ft. Site 9 of 10 in cluster D**

**Relative:** RCRA NonGen / NLR:
**Lower**
Date Form Received by Agency: 2014-01-08 00:00:00.0
**Actual:** Handler Name: O'REILLY AUTO PARTS #2580
**516 ft.** Handler Address: 245 MOUNT HERMON RD STE B
Handler City,State,Zip: SCOTTS VALLEY, CA 95066-4044
EPA ID: CAL000392498
Contact Name: JOHN BOUNDS
Contact Address: 233 S. PATTERSON AVE.
Contact City,State,Zip: SPRINGFIELD, MO 65802
Contact Telephone: 417-520-4589
Contact Fax: 417-874-7102
Contact Email: JBOUNDS2@OREILLYAUTO.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported

**O'REILLY AUTO PARTS #2580 (Continued)** **1024842170**

| | |
|---|---|
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 233 S PATTERSON |
| Mailing City,State,Zip: | SPRINGFIELD, MO 65802-0000 |
| Owner Name: | O'REILLY AUTO PARTS |
| Owner Type: | Other |
| Operator Name: | JOHN BOUNDS |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |

**O'REILLY AUTO PARTS #2580 (Continued)** **1024842170**

| | |
|---|---|
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2018-09-06 17:03:37.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | O'REILLY AUTO PARTS |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 233 S PATTERSON |
| Owner/Operator City,State,Zip: | SPRINGFIELD, MO 65802-0000 |
| Owner/Operator Telephone: | 417-862-3333 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | JOHN BOUNDS |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 233 S. PATTERSON AVE. |
| Owner/Operator City,State,Zip: | SPRINGFIELD, MO 65802 |
| Owner/Operator Telephone: | 417-520-4589 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 2014-01-08 00:00:00.0 |
| Handler Name: | O'REILLY AUTO PARTS #2580 |
| 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: | 44131 |
| NAICS Description: | AUTOMOTIVE PARTS AND ACCESSORIES STORES |

Facility Has Received Notices of Violations:

**O'REILLY AUTO PARTS #2580 (Continued)** **1024842170**

Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

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**D41** **DELIAS CLEANERS** **EDR Hist Cleaner** **1018424294**
**ENE** **245 MOUNT HERMON RD STE G** **N/A**
**< 1/8** **SANTA CRUZ, CA 95066**
**0.072 mi.**
**379 ft.** **Site 10 of 10 in cluster D**

**Relative:** EDR Hist Cleaner
**Lower**

**Actual:**
**516 ft.**

| Year: | Name: | Type: |
|---|---|---|
| 1986 | DELIAS CLEANERS | Garment Pressing And Cleaners' Agents |
| 1991 | SUN KIM | Drycleaning Plants, Except Rugs, NEC |
| 1991 | DELIAS CLEANERS | Garment Pressing And Cleaners' Agents |
| 1992 | DELIAS CLEANERS | Garment Pressing And Cleaners' Agents |
| 1993 | DELIAS CLEANERS | Garment Pressing And Cleaners' Agents |
| 1994 | DELIAS CLEANERS | Garment Pressing And Cleaners' Agents |
| 1995 | ART CLEANERS | Drycleaning Plants, Except Rugs, NEC |
| 1995 | DELIAS CLEANERS | Garment Pressing And Cleaners' Agents |
| 1996 | ART CLEANERS | Drycleaning Plants, Except Rugs, NEC |
| 1997 | ART CLEANERS | Drycleaning Plants, Except Rugs, NEC |
| 1998 | ART CLEANERS | Drycleaning Plants, Except Rugs, NEC |
| 1999 | ART CLEANERS | Drycleaning Plants, Except Rugs, NEC |
| 2000 | ART CLEANERS | Drycleaning Plants, Except Rugs, NEC |
| 2001 | ART CLEANERS | Drycleaning Plants, Except Rugs, NEC |
| 2002 | ART CLEANERS | Drycleaning Plants, Except Rugs, NEC |
| 2003 | ART CLEANERS | Drycleaning Plants, Except Rugs, NEC |
| 2004 | ART CLEANERS | Drycleaning Plants, Except Rugs, NEC |
| 2005 | ART CLEANERS | Drycleaning Plants, Except Rugs, NEC |

---

**42** **ART CLEANERS** **CUPA Listings** **S113097677**
**ENE** **245 MOUNT HERMON RD** **CERS** **N/A**
**< 1/8** **SCOTTS VALLEY, CA 95066**
**0.076 mi.**
**399 ft.**

**Relative:** CUPA SANTA CRUZ:
**Lower**

**Actual:**
**515 ft.**

Name: ART CLEANERS
Address: 245 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0003093
Cross Street: LOCKWOOD LN
Description: HMMP SHORT FORM BASE FEE

Name: ART CLEANERS
Address: 245 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0003093
Cross Street: LOCKWOOD LN
Description: HAZARDOUS WASTE GENERATOR (HMMP SHORT FORM)

Name: ART CLEANERS

**ART CLEANERS (Continued)** **S113097677**

Address: 245 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0003093
Cross Street: LOCKWOOD LN
Description: HMMP SHORT FORM 1 HAZ CLASS

CERS:
Name: ART CLEANERS
Address: 245 G MOUNT HERMON ROAD
City,State,Zip: SCOTTS VALLEY, CA 95066-4044
Site ID: 452352
CERS ID: 110041238871
CERS Description: US EPA Air Emission Inventory System (EIS)

---

**43** **SHAWS CLEANERS** **RCRA-SQG** **1000438664**
**NE** **245 G MT HERMON RD** **CAD981642929**
**< 1/8** **SCOTTS VALLEY, CA 95066**
**0.088 mi.**
**465 ft.**

**Relative:** **Lower**
**Actual:** **516 ft.**

RCRA-SQG:
Date Form Received by Agency: 1996-09-01 00:00:00.0
Handler Name: SHAWS CLEANERS
Handler Address: 245 G MT HERMON RD
Handler City,State,Zip: SCOTTS VALLEY, CA 95066
EPA ID: CAD981642929
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: G MT HERMON RD
Mailing City,State,Zip: SCOTTS VALLEY, CA 95066
Owner Name: CHUNG LEE
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

**SHAWS CLEANERS (Continued)** **1000438664**

| | |
|---|---|
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | NN |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2000-09-15 17:29:50.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | Not reported |
| Manifest Broker: | Not reported |
| Sub-Part P Indicator: | Not reported |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | CHUNG LEE |
| 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 |

**SHAWS CLEANERS (Continued)** **1000438664**

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: 1996-09-01 00:00:00.0
Handler Name: SHAWS 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

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**44** **WESCOSA/T.H. RAMSEY** **SWEEPS UST** **S106934332**
**North** **662 MOUNT HERMON RD** **N/A**
**< 1/8** **SCOTTS VALLEY, CA 95066**
**0.096 mi.**
**507 ft.**

**Relative:**
**Lower**

**Actual:**
**497 ft.**

SWEEPS UST:
Name: WESCOSA/T.H. RAMSEY
Address: 662 MOUNT HERMON RD
City: SCOTTS VALLEY
Status: Not reported
Comp Number: 3
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported

**WESCOSA/T.H. RAMSEY (Continued)** **S106934332**

| | |
|---|---|
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 44-054-000003-000001 |
| Tank Status: | Not reported |
| Capacity: | 3000 |
| Active Date: | Not reported |
| Tank Use: | M.V. FUEL |
| STG: | PRODUCT |
| Content: | REG UNLEADED |
| Number Of Tanks: | 1 |

---

**E45** **SPRING LAKES PARK** **HIST UST U001601998**
**ESE** **225 MOUNT HERMON RD** **CERS N/A**
**< 1/8** **SCOTTS VALLEY, CA 95066**
**0.110 mi.**
**583 ft.** **Site 1 of 4 in cluster E**

**Relative:**
**Lower**

**Actual:**
**504 ft.**

HIST UST:

| | |
|---|---|
| Name: | SPRING LAKES PARK |
| Address: | 225 MOUNT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95060 |
| File Number: | Not reported |
| URL: | Not reported |
| Region: | STATE |
| Facility ID: | 00000010913 |
| Facility Type: | Gas Station |
| Other Type: | Not reported |
| Contact Name: | FRANK CONCONI |
| Telephone: | 4084382407 |
| Owner Name: | SPRING LAKES PARK |
| Owner Address: | 225 MT. HERMON ROAD |
| Owner City,St,Zip: | SCOTTS VALLEY, CA 95066 |
| Total Tanks: | 0001 |
| | |
| Tank Num: | 001 |
| Container Num: | 1 |
| Year Installed: | 1974 |
| Tank Capacity: | 00000550 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | REGULAR |
| Container Construction Thickness: | UNKNOWN |
| Leak Detection: | Stock Inventor, None |

CERS:

| | |
|---|---|
| Name: | SPRING LAKES PARK |
| Address: | 225 MOUNT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Site ID: | 359314 |
| CERS ID: | 10628914 |
| CERS Description: | Chemical Storage Facilities |

Violations:

| | |
|---|---|
| Site ID: | 359314 |
| Site Name: | Spring Lakes Park |
| Violation Date: | 05-02-2017 |
| Citation: | HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to annually review and electronically certify that the |

**SPRING LAKES PARK (Continued)** **U001601998**

business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 05/01/2018. Last HMBP certification recorded in CERS took place 11/17/2015. Review, update as necessary and re-certify the HMBP in CERS.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-01-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Mr. Dave Heiman , Facilities Manager.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-02-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection conducted accompanied by Dave Heiman, Facilities Manager.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-02-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Dave Heiman, Facilities Manager.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-06-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Mr Dave Heiman, Facilities Manager.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-08-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-08-2015

**SPRING LAKES PARK (Continued)** **U001601998**

Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-12-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Mr. Dave Heiman, Facilities Manager. The Owner's or Operator's signatures were not obtained on the inspection report due to COVID-19 constraints.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 359314
Site Name: Spring Lakes Park
Site Address: 225 MOUNT HERMON RD
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 05-02-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Santa Cruz County Environmental Health
Entity Title: Not reported
Affiliation Address: 701 Ocean Boulevard, Suite 312
Affiliation City: Santa Cruz
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95060
Affiliation Phone: (831) 454-2022

Affiliation Type Desc: Document Preparer
Entity Name: Art Alfaro
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: Art Alfaro
Entity Title: Not reported

**SPRING LAKES PARK (Continued)** **U001601998**

| | |
|---|---|
| Affiliation Address: | 225 Mount Hermon Rd |
| Affiliation City: | Scotts Valley |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95066 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | 225 Mount Hermon Rd |
| Affiliation City: | Scotts Valley |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95066 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Art Alfaro |
| Entity Title: | Park Manager |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | Spring Lakes Park |
| Entity Title: | Not reported |
| Affiliation Address: | 225 Mount Hermon Rd |
| Affiliation City: | Scotts Valley |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 95066 |
| Affiliation Phone: | (831) 438-2407 |
| | |
| Affiliation Type Desc: | Operator |
| Entity Name: | Spring Lakes Park |
| 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: | (831) 438-2407 |
| | |
| Affiliation Type Desc: | Property Owner |
| Entity Name: | Spring Lakes Park |
| Entity Title: | Not reported |
| Affiliation Address: | 225 Mount Hermon Rd |
| Affiliation City: | Scotts Valley |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 95066 |
| Affiliation Phone: | (831) 438-2407 |

**SPRING LAKES PARK (Continued)** **U001601998**

| | |
|---|---|
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | Spring Lakes Park |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

---

**E46** **SPRING LAKES PARK** **HIST UST** **S117632311**
**ESE** **225 MT HERMON RD** **N/A**
**< 1/8** **SCOTTS VALLEY, CA 95060**
**0.110 mi.**
**583 ft.** **Site 2 of 4 in cluster E**

**Relative:** **Lower**
**Actual:** **504 ft.**

HIST UST:

| | |
|---|---|
| Name: | SPRING LAKES PARK |
| Address: | 225 MT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95060 |
| File Number: | 00020CD1 |
| URL: | http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00020CD1.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:

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**E47** **SPRING LAKES PARK** **SWEEPS UST** **S101625328**
**ESE** **225 MOUNT HERMON RD** **CA FID UST** **N/A**
**< 1/8** **SCOTTS VALLEY, CA 95060** **CUPA Listings**
**0.110 mi.**
**583 ft.** **Site 3 of 4 in cluster E**

**Relative:** **Lower**
**Actual:** **504 ft.**

SWEEPS UST:

| | |
|---|---|
| Name: | SPRING LAKES PARK |
| Address: | 225 MOUNT HERMON RD |
| City: | SCOTTS VALLEY |
| Status: | Not reported |

**SPRING LAKES PARK (Continued)** **S101625328**

Comp Number: 10913
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: 44-054-010913-000001
Tank Status: Not reported
Capacity: 550
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: 1

CA FID UST:
Facility ID: 44001540
Regulated By: UTNKI
Regulated ID: 00010913
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4084382407
Mail To: Not reported
Mailing Address: 225 MOUNT HERMON RD
Mailing Address 2: Not reported
Mailing City,St,Zip: SCOTTS VALLEY 95060
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

CUPA SANTA CRUZ:
Name: SPRING LAKES PARK
Address: 225 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0003078
Cross Street: Not reported
Description: HMMP SHORT FORM 6 HAZ CLASSES

Name: SPRING LAKES PARK
Address: 225 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0003078
Cross Street: Not reported
Description: HMMP SHORT FORM BASE FEE

**E48** **BOLLINGER CHEVRON** **EDR Hist Auto** **1020420156**
**ESE** **225 MOUNT HERMON RD 185** **N/A**
**< 1/8** **SCOTTS VALLEY, CA 95066**
**0.110 mi.**
**583 ft.** **Site 4 of 4 in cluster E**

**Relative:** EDR Hist Auto
**Lower**

**Actual:** Year: Name: Type:
**504 ft.** 1991 BOLLINGER CHEVRON Gasoline Service Stations, NEC

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**F49** **BAY PHOTO INC SCOTTS VALLEY STORE** **RCRA-SQG** **1000685931**
**East** **235 MOUNT HERMON RD UNIT G** **FINDS** **CAD983628934**
**< 1/8** **SCOTTS VALLEY, CA 95066** **ECHO**
**0.111 mi.**
**585 ft.** **Site 1 of 10 in cluster F**

**Relative:** RCRA-SQG:
**Lower**

**Actual:**
**515 ft.**

| | |
|---|---|
| Date Form Received by Agency: | 1992-04-01 00:00:00.0 |
| Handler Name: | BAY PHOTO INC SCOTTS VALLEY STORE |
| Handler Address: | 235 MOUNT HERMON RD UNIT G |
| Handler City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| EPA ID: | CAD983628934 |
| Contact Name: | GEORGE RENTSCHLER |
| Contact Address: | 2853 PARK AVE |
| Contact City,State,Zip: | SOQUEL, CA 95073 |
| Contact Telephone: | 408-475-6686 |
| 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: | 235 MOUNT HERMON RD UNIT G |
| Mailing City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Owner Name: | LARRY ABITBOL NANCY EDGERLY |
| Owner Type: | Private |
| Operator Name: | Not reported |
| Operator Type: | Not reported |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |

**BAY PHOTO INC SCOTTS VALLEY STORE (Continued)** **1000685931**

| | |
|---|---|
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | NN |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2002-06-27 03:35:55.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | Not reported |
| Manifest Broker: | Not reported |
| Sub-Part P Indicator: | Not reported |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | LARRY ABITBOL NANCY EDGERLY |
| Legal Status: | Private |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2853 PARK AVE |
| Owner/Operator City,State,Zip: | SOQUEL, CA 95073 |
| Owner/Operator Telephone: | 408-475-6686 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

**BAY PHOTO INC SCOTTS VALLEY STORE (Continued)** **1000685931**

Receive Date: 1992-04-01 00:00:00.0
Handler Name: BAY PHOTO INC SCOTTS VALLEY STORE
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110002872883

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000685931
Registry ID: 110002872883
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002872883
Name: BAY PHOTO INC SCOTTS VALLEY STORE
Address: 235 MOUNT HERMON RD UNIT G
City,State,Zip: SCOTTS VALLEY, CA 95066

**F50**
**East**
**1/8-1/4**
**0.134 mi.**
**710 ft.**

**SKY PARK ARPT LEACHFIELD**
**MT HERMAN RD&KINGS VILLAGE RD**
**SCOTTS VALLEY, CA 95066**

**Site 2 of 10 in cluster F**

**SEMS-ARCHIVE**

**1003878796**
**CAD980893291**

**Relative:**
**Lower**

**Actual:**
**516 ft.**

SEMS Archive:

| | |
|---|---|
| Site ID: | 0902229 |
| EPA ID: | CAD980893291 |
| Name: | SKY PARK ARPT LEACHFIELD |
| Address: | MT HERMAN RD&KINGS VILLAGE RD |
| Address 2: | Not reported |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Cong District: | 16 |
| FIPS Code: | 06087 |
| 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: | 0902229 |
| EPA ID: | CAD980893291 |
| Site Name: | SKY PARK ARPT LEACHFIELD |
| NPL: | N |
| FF: | N |
| OU: | 00 |
| Action Code: | VS |
| Action Name: | ARCH SITE |
| SEQ: | 1 |
| Start Date: | Not reported |
| Finish Date: | 1991-10-25 04:00:00 |
| Qual: | Not reported |
| Current Action Lead: | EPA Perf In-Hse |

| | |
|---|---|
| Region: | 09 |
| Site ID: | 0902229 |
| EPA ID: | CAD980893291 |
| Site Name: | SKY PARK ARPT LEACHFIELD |
| NPL: | N |
| FF: | N |
| OU: | 00 |
| Action Code: | SI |
| Action Name: | SI |
| SEQ: | 3 |
| Start Date: | 1985-10-01 05:00:00 |
| Finish Date: | 1985-10-01 05:00:00 |
| Qual: | H |
| Current Action Lead: | EPA Perf |

| | |
|---|---|
| Region: | 09 |
| Site ID: | 0902229 |
| EPA ID: | CAD980893291 |
| Site Name: | SKY PARK ARPT LEACHFIELD |
| NPL: | N |
| FF: | N |
| OU: | 00 |
| Action Code: | SI |
| Action Name: | SI |
| SEQ: | 1 |

**SKY PARK ARPT LEACHFIELD (Continued)** **1003878796**

Start Date: Not reported
Finish Date: 1989-12-07 05:00:00
Qual: H
Current Action Lead: EPA Perf

Region: 09
Site ID: 0902229
EPA ID: CAD980893291
Site Name: SKY PARK ARPT LEACHFIELD
NPL: N
FF: N
OU: 00
Action Code: SI
Action Name: SI
SEQ: 2
Start Date: Not reported
Finish Date: 1991-10-25 04:00:00
Qual: N
Current Action Lead: EPA Perf

Region: 09
Site ID: 0902229
EPA ID: CAD980893291
Site Name: SKY PARK ARPT LEACHFIELD
NPL: N
FF: N
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: Not reported
Finish Date: 1985-10-01 05:00:00
Qual: H
Current Action Lead: EPA Perf

Region: 09
Site ID: 0902229
EPA ID: CAD980893291
Site Name: SKY PARK ARPT LEACHFIELD
NPL: N
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1985-07-01 05:00:00
Finish Date: 1985-07-01 05:00:00
Qual: Not reported
Current Action Lead: EPA Perf

**G51** **FRANKS AUTO DISMANTLER** **ENVIROSTOR** **S100936524**
**NNW** **700 MOUNT HERMAN ROAD** **N/A**
**1/8-1/4** **SCOTTS VALLEY, CA 95066**
**0.149 mi.**
**787 ft.** **Site 1 of 3 in cluster G**

**Relative:** **Lower**

**Actual:** **487 ft.**

ENVIROSTOR:

| | |
|---|---|
| Name: | FRANKS AUTO DISMANTLER |
| Address: | 700 MOUNT HERMAN ROAD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Facility ID: | 44500005 |
| Status: | Refer: Other Agency |
| Status Date: | 01/20/2004 |
| Site Code: | Not reported |
| Site Type: | Evaluation |
| Site Type Detailed: | Evaluation |
| Acres: | 1 |
| NPL: | NO |
| Regulatory Agencies: | NONE SPECIFIED |
| Lead Agency: | NONE SPECIFIED |
| Program Manager: | Not reported |
| Supervisor: | Mark Piros |
| Division Branch: | Cleanup Berkeley |
| Assembly: | 29 |
| Senate: | 17 |
| Special Program: | * Rural County Survey Program |
| Restricted Use: | NO |
| Site Mgmt Req: | NONE SPECIFIED |
| Funding: | Not reported |
| Latitude: | 37.04805 |
| Longitude: | -122.0344 |
| APN: | NONE SPECIFIED |
| Past Use: | NONE SPECIFIED |
| Potential COC: | NONE SPECIFIED |
| Confirmed COC: | NONE SPECIFIED |
| Potential Description: | NONE SPECIFIED |
| Alias Name: | 44500005 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Site Screening |
| Completed Date: | 01/26/1996 |
| Comments: | Completed Site Screening. A private consultant for the City of Scotts Valley conducted an inspection of the site in 1990 that was part of an area-wide environmental assessment of the abandoned Skypark Airport. During the inspection, dismantled vehicles, batteries, tires, and auto parts, along with a number of 30 and 55-gallon drums, labeled as motor oil and transmission fluid, covered the auto yard. Drums, tires, and batteries were also noted in the creek channel adjacent to the site. Two soil samples were taken at the site during the 1990 inspection, one at a depth of 6 to 12 inches below ground surface (bgs), and the other at a depth of 24 to 30 inches bgs. Both samples were analyzed for total petroleum hydrocarbons (TPH), oil and grease, priority metals, and volatile organic compounds (VOCs). There were no significant detections in either sample. The Scotts Valley Fire Prevention District (SCFPD) performed a site inspection in September 1993 and observed drums and numerous containers containing what appeared to be used motor oil and possibly paint and/or paint |

**FRANKS AUTO DISMANTLER (Continued)** **S100936524**

wastes. Signs of leakage were noted from some of these containers. In late 1993, two abandoned underground storage tanks (USTs) were removed from the site. The SVFPD oversaw the removal and approved closure of the USTs.

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Preliminary Endangerment Assessment Report |
| Completed Date: | 01/20/2004 |
| Comments: | Completed PEA. On October 15, 2003, DTSC personnel collected surface soil samples from seven randomly chosen locations at the site. The results of the analyses of the samples of the samples showed no significant detections of TPH, VOCs, or semi-VOCs. The only significant detection of metals was 28.4 ppm of arsenic and 440 ppm of lead in one sample. This sample was taken from what appeared to be the area of the former USTs. Although lead and arsenic were detected at 440 ppm and 28.4 ppm, respectively, in one sample, the 95% upper confidence limit of the arithmetic mean, a conservative estimate of the average concentration, for lead and arsenic at the site are 217 ppm and 15 ppm respectively, indicating that these metals are not at levels of concern. However, auto parts, trash, debris, and tires are currently scattered throughout the property and need to be handled appropriately. The site has been referred to the California Integrated Waste Management Board (CIWMB). The CIWMB plans on working with the site owner to remove the auto parts, trash, debris, and tires. |
| 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 |

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**G52** **FORMER FRANK'S AUTO DISMANTLER** **CPS-SLIC** **S110041787**
**NNW** **700 MT. HERMON RD** **N/A**
**1/8-1/4** **SCOTTS VALLEY, CA 95066**
**0.149 mi.**
**787 ft.** **Site 2 of 3 in cluster G**

**Relative:** **Lower**
**Actual:** **487 ft.**

CPS-SLIC:

| | |
|---|---|
| Name: | FORMER FRANK'S AUTO DISMANTLER |
| Address: | 700 MT. HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Region: | STATE |
| **Facility Status:** | **Open - Site Assessment** |
| Status Date: | 10/09/2009 |
| Global Id: | T10000001590 |
| Lead Agency: | SANTA CRUZ COUNTY |
| Lead Agency Case Number: | RO0000259 |
| Latitude: | 37.0489371414299 |
| Longitude: | -122.034475207329 |
| Case Type: | Cleanup Program Site |
| Case Worker: | JBG |
| Local Agency: | SANTA CRUZ COUNTY |

**FORMER FRANK'S AUTO DISMANTLER (Continued)** **S110041787**

RB Case Number: Not reported
File Location: Not reported
Potential Media Affected: Soil
Potential Contaminants of Concern: Arsenic, Lead, Other Metal
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

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**G53** **FORMER FRANKS AUTO WRECKERS/FRANK SANTOS** **SWEEPS UST** **S106926330**
**NNW** **700 MOUNT HERMON RD** **N/A**
**1/8-1/4** **SCOTTS VALLEY, CA 95066**
**0.149 mi.**
**787 ft.** **Site 3 of 3 in cluster G**

**Relative:** SWEEPS UST:
**Lower**

**Actual:** Name: FORMER FRANKS AUTO WRECKERS/FRANK SANTOS
**487 ft.** Address: 700 MOUNT HERMON RD
City: SCOTTS VALLEY
Status: Not reported
Comp Number: 1
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: 44-054-000001-000001
Tank Status: Not reported
Capacity: 550
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: 2

Name: FORMER FRANKS AUTO WRECKERS/FRANK SANTOS
Address: 700 MOUNT HERMON RD
City: SCOTTS VALLEY
Status: Not reported
Comp Number: 1
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: 44-054-000001-000002
Tank Status: Not reported
Capacity: 550
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

**F54** **CINELUX CINEMA** **RCRA NonGen / NLR** **1024752732**
**East** **226 MOUNT HERMON ROAD** **CAC002972541**
**1/8-1/4** **SCOTTS VALLEY, CA 95066**
**0.150 mi.**
**791 ft.** **Site 3 of 10 in cluster F**

**Relative:** **Lower**

**Actual:** **517 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 2018-07-25 00:00:00.0 |
| Handler Name: | CINELUX CINEMA | |
| Handler Address: | | 226 MOUNT HERMON ROAD |
| Handler City,State,Zip: | | SCOTTS VALLEY, CA 95066 |
| EPA ID: | | CAC002972541 |
| Contact Name: | | BENJAMIN OW |
| Contact Address: | | 1601 41ST AVENUE #202 |
| Contact City,State,Zip: | | CAPITOLA, CA 95010 |
| Contact Telephone: | | 831-247-1175 |
| 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: | | Handler Activities |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | 1601 41ST AVENUE #202 |
| Mailing City,State,Zip: | | CAPITOLA, CA 95010 |
| Owner Name: | | OW FAMILY TRUST |
| Owner Type: | | Other |
| Operator Name: | | BENJAMIN OW |
| Operator Type: | | Other |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |
| Underground Injection Control: | | No |
| Off-Site Waste Receipt: | | No |
| Universal Waste Indicator: | | Yes |
| Universal Waste Destination Facility: | | Yes |
| Federal Universal Waste: | | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Handler: | | --- |
| Federal Facility Indicator: | | Not reported |
| Hazardous Secondary Material Indicator: | | N |
| Sub-Part K Indicator: | | Not reported |
| Commercial TSD Indicator: | | No |
| Treatment Storage and Disposal Type: | | Not reported |
| 2018 GPRA Permit Baseline: | | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | | Not on the Baseline |
| Permit Renewals Workload Universe: | | Not reported |

**CINELUX CINEMA (Continued)** **1024752732**

| | |
|---|---|
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2018-08-31 17:13:01.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | BENJAMIN OW |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1601 41ST AVENUE #202 |
| Owner/Operator City,State,Zip: | CAPITOLA, CA 95010 |
| Owner/Operator Telephone: | 831-247-1175 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | OW FAMILY TRUST |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1601 41ST AVENUE #202 |
| Owner/Operator City,State,Zip: | CAPITOLA, CA 95010 |
| Owner/Operator Telephone: | 831-247-1175 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

**CINELUX CINEMA (Continued)** **1024752732**

Historic Generators:
- Receive Date: 2018-07-25 00:00:00.0
- Handler Name: CINELUX CINEMA
- 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

---

**F55** **KINGS CLEANERS** **SEMS-ARCHIVE** **1000236917**
**East** **222 MT HERMAN RD** **RCRA-SQG** **CAD981633050**
**1/8-1/4** **SCOTTS VALLEY, CA 95066**
**0.160 mi.**
**844 ft.** **Site 4 of 10 in cluster F**

**Relative:** **Lower**

**Actual:** **517 ft.**

SEMS Archive:
- Site ID: 0901496
- EPA ID: CAD063548135
- Name: KINGS CLEANERS
- Address: 222 MT HERMAN RD
- Address 2: Not reported
- City,State,Zip: SCOTTS VALLEY, CA 95066
- Cong District: 16
- FIPS Code: 06087
- 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: 0901496
- EPA ID: CAD063548135
- Site Name: KINGS CLEANERS
- NPL: N
- FF: N
- OU: 00
- Action Code: VS
- Action Name: ARCH SITE
- SEQ: 1
- Start Date: Not reported

**KINGS CLEANERS (Continued)** **1000236917**

| | |
|---|---|
| Finish Date: | 1989-12-18 05:00:00 |
| Qual: | Not reported |
| Current Action Lead: | EPA Perf In-Hse |
| | |
| Region: | 09 |
| Site ID: | 0901496 |
| EPA ID: | CAD063548135 |
| Site Name: | KINGS CLEANERS |
| NPL: | N |
| FF: | N |
| OU: | 00 |
| Action Code: | SI |
| Action Name: | SI |
| SEQ: | 2 |
| Start Date: | 1985-10-01 05:00:00 |
| Finish Date: | 1985-10-01 05:00:00 |
| Qual: | H |
| Current Action Lead: | EPA Perf |
| | |
| Region: | 09 |
| Site ID: | 0901496 |
| EPA ID: | CAD063548135 |
| Site Name: | KINGS CLEANERS |
| NPL: | N |
| FF: | N |
| OU: | 00 |
| Action Code: | PA |
| Action Name: | PA |
| SEQ: | 1 |
| Start Date: | Not reported |
| Finish Date: | 1985-10-01 05:00:00 |
| Qual: | L |
| Current Action Lead: | EPA Perf |
| | |
| Region: | 09 |
| Site ID: | 0901496 |
| EPA ID: | CAD063548135 |
| Site Name: | KINGS CLEANERS |
| NPL: | N |
| FF: | N |
| OU: | 00 |
| Action Code: | DS |
| Action Name: | DISCVRY |
| SEQ: | 1 |
| Start Date: | 1985-07-01 05:00:00 |
| Finish Date: | 1985-07-01 05:00:00 |
| Qual: | Not reported |
| Current Action Lead: | EPA Perf |
| | |
| Region: | 09 |
| Site ID: | 0901496 |
| EPA ID: | CAD063548135 |
| Site Name: | KINGS CLEANERS |
| NPL: | N |
| FF: | N |
| OU: | 00 |
| Action Code: | SI |

**KINGS CLEANERS (Continued)** **1000236917**

| | |
|---|---|
| Action Name: | SI |
| SEQ: | 1 |
| Start Date: | Not reported |
| Finish Date: | 1989-12-18 05:00:00 |
| Qual: | N |
| Current Action Lead: | St Perf |

RCRA-SQG:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 1996-02-26 00:00:00.0 |
| Handler Name: | KINGS CLEANERS | |
| Handler Address: | | 222 MT HERMON RD STE K |
| Handler City,State,Zip: | | SCOTTS VALLEY, CA 95066 |
| EPA ID: | | CAD981633050 |
| Contact Name: | | ALAN DITTO |
| Contact Address: | | 3908 CAPITOLA RD |
| Contact City,State,Zip: | | CAPITOLA, CA 95010 |
| Contact Telephone: | | 408-475-3115 |
| Contact Fax: | | Not reported |
| Contact Email: | | Not reported |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Municipal |
| 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: | | CAPITOLA RD |
| Mailing City,State,Zip: | | CAPITOLA, CA 95010 |
| Owner Name: | | ALAN AND KATHY DITTO |
| Owner Type: | | Private |
| Operator Name: | | NOT REQUIRED |
| Operator Type: | | Private |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |
| Underground Injection Control: | | No |
| Off-Site Waste Receipt: | | No |
| Universal Waste Indicator: | | No |
| Universal Waste Destination Facility: | | No |
| Federal Universal Waste: | | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Handler: | | --- |
| Federal Facility Indicator: | | Not reported |
| Hazardous Secondary Material Indicator: | | NN |
| Sub-Part K Indicator: | | Not reported |
| Commercial TSD Indicator: | | No |

**KINGS CLEANERS (Continued)** **1000236917**

| | |
|---|---|
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2000-09-15 17:29:48.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | Not reported |
| Manifest Broker: | Not reported |
| Sub-Part P Indicator: | Not reported |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | ALAN AND KATHY DITTO |
| Legal Status: | Private |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 3908 CAPITOLA RD |
| Owner/Operator City,State,Zip: | CAPITOLA, CA 95010 |
| Owner/Operator Telephone: | 408-475-3115 |
| 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 |

**KINGS CLEANERS (Continued)** **1000236917**

Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 1996-02-26 00:00:00.0
Handler Name: KINGS 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

---

**F56** **KING'S CLEANERS** **CPS-SLIC S103642906**
**East** **222 MOUNT HERMON ROAD** **DRYCLEANERS N/A**
**1/8-1/4** **SCOTTS VALLEY, CA 95066**
**0.160 mi.**
**844 ft.** **Site 5 of 10 in cluster F**

**Relative:**
**Lower**

**Actual:**
**517 ft.**

CPS-SLIC:
Name: KING'S CLEANERS
Address: 222 MOUNT HERMON ROAD
City,State,Zip: SCOTTS VALLEY, CA 95066
Region: STATE
**Facility Status:** **Open - Verification Monitoring**
Status Date: 08/02/2010
Global Id: T10000000889
Lead Agency: SANTA CRUZ COUNTY
Lead Agency Case Number: Not reported
Latitude: 37.0472737776428
Longitude: -122.026530504227
Case Type: Cleanup Program Site
Case Worker: JG
Local Agency: SANTA CRUZ COUNTY
RB Case Number: Not reported
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

**KING'S CLEANERS (Continued)** **S103642906**

Click here to access the California GeoTracker records for this facility:

DRYCLEANERS:

| | |
|---|---|
| Name: | KINGS CLEANERS |
| Address: | 222 MOUNT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 950664071 |
| EPA Id: | CAD981633050 |
| NAICS Code: | 81232 |
| NAICS Description: | Drycleaning and Laundry Services (except Coin-Operated) |
| SIC Code: | 7211 |
| SIC Description: | Power Laundries, Family and Commercial |
| Create Date: | 04/10/1987 |
| Facility Active: | No |
| Inactive Date: | 04/01/2008 |
| Facility Addr2: | Not reported |
| Owner Name: | ALAN DITTO |
| Owner Address: | 820 BALBOA AVE |
| Owner Address 2: | Not reported |
| Owner Telephone: | 8314771603 |
| Contact Name: | ALAN DITTO |
| Contact Address: | 820 BALBOA AVE |
| Contact Address 2: | Not reported |
| Contact Telephone: | 8314771603 |
| Mailing Name: | Not reported |
| Mailing Address 1: | 820 BALBOA AVE |
| Mailing Address 2: | Not reported |
| Mailing City: | CAPITOLA |
| Mailing State: | CA |
| Mailing Zip: | 950102302 |
| Owner Fax: | Not reported |
| Region Code: | 2 |

---

**F57** **NOB HILL # 620** **CERS HAZ WASTE** **S121787274**
**East** **222 MOUNT HERMON RD** **CERS** **N/A**
**1/8-1/4** **SCOTTS VALLEY, CA 95066**
**0.160 mi.**
**844 ft.** **Site 6 of 10 in cluster F**

**Relative:** **Lower**
**Actual:** **517 ft.**

CERS HAZ WASTE:

| | |
|---|---|
| Name: | NOB HILL # 620 |
| Address: | 222 MOUNT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Site ID: | 52281 |
| CERS ID: | 10500823 |
| CERS Description: | Hazardous Waste Generator |

CERS:

| | |
|---|---|
| Name: | NOB HILL # 620 |
| Address: | 222 MOUNT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Site ID: | 52281 |
| CERS ID: | 10500823 |
| CERS Description: | Chemical Storage Facilities |

Violations:

| | |
|---|---|
| Site ID: | 52281 |

**NOB HILL # 620 (Continued)** **S121787274**

| | |
|---|---|
| Site Name: | Nob Hill # 620 |
| Violation Date: | 04-09-2014 |
| Citation: | HSC 6.95 25510 - California Health and Safety Code, Chapter 6.95, Section(s) 25510 |
| Violation Description: | Failure to update hazardous material inventory within 30 days when one of the following occurs: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials A change of business address, business ownership, or business name. |
| Violation Notes: | Returned to compliance on 05/01/2014. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HMRRP |
| Violation Source: | CERS |
| | |
| Site ID: | 52281 |
| Site Name: | Nob Hill # 620 |
| Violation Date: | 04-01-2016 |
| Citation: | HSC 6.95 25508.1(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(f) |
| Violation Description: | Failure to electronically update the business plan within 30 days of a substantial change. |
| Violation Notes: | Returned to compliance on 04/15/2016. Personnel change comprising new store director/primary emergency contact not reported within 30 days. Substantial changes shall be reported within 30 days in CERS. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HMRRP |
| Violation Source: | CERS |
| | |
| Site ID: | 52281 |
| Site Name: | Nob Hill # 620 |
| Violation Date: | 04-04-2019 |
| Citation: | 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a) |
| Violation Description: | Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste. |
| Violation Notes: | Returned to compliance on 04/10/2019. A copy of the most recent hazardous waste shipment (said to have been on Feb. 2019) was not available for review. Make a copy of the uniform hazardous waste manifest for that shipment available for review. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |

Evaluation:

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 04-01-2016 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Inspection conducted accompanied by Jose Zaragoza, store director. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |

**NOB HILL # 620 (Continued)** **S121787274**

Eval Date: 04-01-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Inspection conducted accompanied by Jose Zaragoza, store director.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-03-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-03-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-04-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-04-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Mr. Gerard Garcia Assistant Store Manager.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-04-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Jose Zaragoza, Store Manager.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-04-2019
Violations Found: Yes
Eval Type: Routine done by local agency

**NOB HILL # 620 (Continued)** **S121787274**

Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-05-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-05-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Jose Zaragosa, Store Manager. Changes to contact personnel on the business owner operator page of the HMBP is required.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-09-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-09-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 52281
Site Name: Nob Hill # 620
Site Address: 222 MOUNT HERMON RD
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 04-01-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

**NOB HILL # 620 (Continued)** **S121787274**

| | |
|---|---|
| Site ID: | 52281 |
| Site Name: | Nob Hill # 620 |
| Site Address: | 222 MOUNT HERMON RD |
| Site City: | SCOTTS VALLEY |
| Site Zip: | 95066 |
| Enf Action Date: | 04-09-2014 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Santa Cruz County Environmental Health |
| Enf Action Program: | HMRRP |
| Enf Action Source: | CERS |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | Ryan Bussick |
| Entity Title: | Not reported |
| Affiliation Address: | 500 W CAPITOL AVE |
| Affiliation City: | WEST SACRAMENTO |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95605 |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Ryan Bussick |
| Entity Title: | Safety Specialist |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | CUPA District |
| Entity Name: | Santa Cruz County Environmental Health |
| Entity Title: | Not reported |
| Affiliation Address: | 701 Ocean Boulevard, Suite 312 |
| Affiliation City: | Santa Cruz |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95060 |
| Affiliation Phone: | (831) 454-2022 |

| | |
|---|---|
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | 222 Mt. Hermon Road |
| Affiliation City: | Scotts Valley |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95066 |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | Raley’s Supermarket |
| Entity Title: | Not reported |

**NOB HILL # 620 (Continued)** **S121787274**

Affiliation Address: 500 WEST CAPITOL AVE
Affiliation City: WEST SACRAMENTO
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95605
Affiliation Phone: (916) 373-3333

Affiliation Type Desc: Operator
Entity Name: Nob Hil #620
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: (831) 438-1611

Affiliation Type Desc: Parent Corporation
Entity Name: Nob Hill # 620
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Document Preparer
Entity Name: Ryan Bussick
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: King’s Village Shopping Center
Entity Title: Not reported
Affiliation Address: 230 Mount Hermon Road, Suite 200
Affiliation City: Scotts Valley
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95066
Affiliation Phone: (831) 438-2810

Name: KING’S CLEANERS
Address: 222 MOUNT HERMON ROAD
City,State,Zip: SCOTTS VALLEY, CA 95066
Site ID: 228425
CERS ID: T10000000889
CERS Description: Cleanup Program Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: SCOTT CARSON - SANTA CRUZ COUNTY

**NOB HILL # 620 (Continued)** **S121787274**

Entity Title: Not reported
Affiliation Address: 701 Ocean Street, Room 312
Affiliation City: SANTA CRUZ
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Regional Board Caseworker
Entity Name: DAN NILES - CENTRAL COAST RWQCB (REGION 3)
Entity Title: Not reported
Affiliation Address: 895 AEROVISTA PLACE SUITE 101
Affiliation City: SAN LUIS OBISPO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Name: KINGS CLEANERS
Address: 222 MOUNT HERMON ROAD SUITE K
City,State,Zip: SCOTTS VALLEY, CA 95066-4032
Site ID: 475875
CERS ID: 110002731429
CERS Description: US EPA Air Emission Inventory System (EIS)

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: ALAN DITTO
Entity Title: Not reported
Affiliation Address: 3908 CAPITOLA ROAD
Affiliation City: CAPITOLA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Regional Board Caseworker
Entity Name: DAN NILES CTRL CST RWQCB REGN 3RD
Entity Title: Not reported
Affiliation Address: 895 AEROVISTA PLACE SUITE 101
Affiliation City: SANLUISOBISPO
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Local Agency Caseworker
Entity Name: SCOTT CARSON SANTA CRUZ CNTY LOP
Entity Title: Not reported
Affiliation Address: 701 OCEAN STREETNA ROOM 312
Affiliation City: SANTACRUZ
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

**F58** **KINGS CLEANERS** **EDR Hist Cleaner** **1018915314**
**East** **222 MT HERMAN RD** **N/A**
**1/8-1/4** **SANTA CRUZ, CA 95066**
**0.160 mi.**
**844 ft.** **Site 7 of 10 in cluster F**

**Relative:** EDR Hist Cleaner
**Lower**

**Actual:** **517 ft.**

| Year: | Name: | Type: |
|---|---|---|
| 1980 | KINGS CLEANERS | Drycleaning Plants, Except Rugs |
| 1996 | KINGS CLEANERS | Drycleaning Plants, Except Rugs |
| 1997 | KINGS CLEANERS | Drycleaning Plants, Except Rugs |
| 1998 | KINGS CLEANERS | Drycleaning Plants, Except Rugs |
| 1999 | KINGS CLEANERS | Drycleaning Plants, Except Rugs |
| 2000 | KINGS CLEANERS | Drycleaning Plants, Except Rugs |
| 2001 | KINGS CLEANERS | Drycleaning Plants, Except Rugs |
| 2002 | KINGS CLEANERS | Drycleaning Plants, Except Rugs |
| 2003 | KINGS CLEANERS | Drycleaning Plants, Except Rugs |
| 2004 | KINGS CLEANERS | Drycleaning Plants, Except Rugs |
| 2007 | KINGS CLEANERS | Drycleaning Plants, Except Rugs |
| 2008 | KINGS CLEANERS | Drycleaning Plants, Except Rugs |
| 2009 | KINGS CLEANERS | Drycleaning Plants, Except Rugs |
| 2010 | KINGS CLEANERS | Drycleaning Plants, Except Rugs |
| 2011 | KINGS CLEANERS | Drycleaning Plants, Except Rugs |
| 2012 | KINGS CLEANERS | Drycleaning Plants, Except Rugs |
| 2013 | KINGS CLEANERS | Drycleaning Plants, Except Rugs |
| 2014 | KINGS CLEANERS | Drycleaning Plants, Except Rugs |

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**F59** **NOB HILL # 620** **CUPA Listings** **S107137409**
**East** **222 MT. HERMON RD** **N/A**
**1/8-1/4** **SCOTTS VALLEY, CA 95066**
**0.160 mi.**
**844 ft.** **Site 8 of 10 in cluster F**

**Relative:** CUPA SANTA CRUZ:
**Lower**

**Actual:** **517 ft.**

Name: NOB HILL # 620
Address: 222 MT. HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0007066
Cross Street: KINGS VILLAGE RD
Description: HMMP STANDARD FORM FILING FEE

Name: NOB HILL # 620
Address: 222 MT. HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0007066
Cross Street: KINGS VILLAGE RD
Description: HMMP STANDARD FORM QR 3

Name: NOB HILL # 620
Address: 222 MT. HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0007066
Cross Street: KINGS VILLAGE RD
Description: HAZARDOUS WASTE GENERATOR (HMMP STD FORM)

**F60** **NOB HILL #620** **RCRA NonGen / NLR** **1024798289**
**East** **222 MT HERMAN RD** **CAL000197283**
**1/8-1/4** **SCOTTS VALLEY, CA 95066**
**0.160 mi.**
**844 ft.** **Site 9 of 10 in cluster F**

**Relative:** **Lower**

**Actual:** **517 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 1999-06-11 00:00:00.0 |
| Handler Name: | NOB HILL #620 | |
| Handler Address: | | 222 MT HERMAN RD |
| Handler City,State,Zip: | | SCOTTS VALLEY, CA 95066-0000 |
| EPA ID: | | CAL000197283 |
| Contact Name: | | GLENN BAKER |
| Contact Address: | | PO BOX 15618 |
| Contact City,State,Zip: | | SACRAMENTO, CA 95852-1618 |
| Contact Telephone: | | 916-373-6318 |
| Contact Fax: | | 916-376-6899 |
| Contact Email: | | GBAKER@RALEYS.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Not reported |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Handler Activities |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | PO BOX 15618 |
| Mailing City,State,Zip: | | SACRAMENTO, CA 95852-1618 |
| Owner Name: | | RALEY'S RANCH |
| Owner Type: | | Other |
| Operator Name: | | GLENN BAKER |
| Operator Type: | | Other |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |
| Underground Injection Control: | | No |
| Off-Site Waste Receipt: | | No |
| Universal Waste Indicator: | | Yes |
| Universal Waste Destination Facility: | | Yes |
| Federal Universal Waste: | | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Handler: | | --- |
| Federal Facility Indicator: | | Not reported |
| Hazardous Secondary Material Indicator: | | N |
| Sub-Part K Indicator: | | Not reported |
| Commercial TSD Indicator: | | No |
| Treatment Storage and Disposal Type: | | Not reported |
| 2018 GPRA Permit Baseline: | | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | | Not on the Baseline |
| Permit Renewals Workload Universe: | | Not reported |

**NOB HILL #620 (Continued)** **1024798289**

| | |
|---|---|
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2018-09-05 15:44:27.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | RALEY'S RANCH |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 500 W CAPITOL AVE |
| Owner/Operator City,State,Zip: | WEST SACRAMENTO, CA 95605-2624 |
| Owner/Operator Telephone: | 916-373-6318 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | GLENN BAKER |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | PO BOX 15618 |
| Owner/Operator City,State,Zip: | SACRAMENTO, CA 95852-1618 |
| Owner/Operator Telephone: | 916-373-6318 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

**NOB HILL #620 (Continued)** **1024798289**

Historic Generators:
- Receive Date: 1999-06-11 00:00:00.0
- Handler Name: NOB HILL #620
- 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: 44511
- NAICS Description: SUPERMARKETS AND OTHER GROCERY (EXCEPT CONVENIENCE) STORES

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

---

**F61** **KINGS CLEANERS** **EDR Hist Cleaner** **1020020299**
**East** **222 K MT HERMAN** **N/A**
**1/8-1/4** **SCOTTS VALLEY, CA 95066**
**0.160 mi.**
**844 ft.** **Site 10 of 10 in cluster F**

**Relative:** EDR Hist Cleaner
**Lower**

**Actual:**
**517 ft.**

| Year: | Name: | Type: |
|---|---|---|
| 2005 | KINGS CLEANERS | Drycleaning Plants, Except Rugs |
| 2006 | KINGS CLEANERS | Drycleaning Plants, Except Rugs |

---

**H62** **SKYPARK AIRPORT LEACHFIELD** **RESPONSE** **S100539002**
**East** **MOUNT HERMAN & KING'S VILLAGE ROADS** **ENVIROSTOR** **N/A**
**1/8-1/4** **SCOTTS VALLEY, CA 95066**
**0.166 mi.**
**879 ft.** **Site 1 of 15 in cluster H**

**Relative:** RESPONSE:
**Lower**
- Name: SKYPARK AIRPORT LEACHFIELD

**Actual:**
**518 ft.**
- Address: MOUNT HERMAN & KING'S VILLAGE ROADS
- City,State,Zip: SCOTTS VALLEY, CA 95066
- Facility ID: 44490001
- Site Type: State Response
- Site Type Detail: State Response or NPL
- Acres: 80
- National Priorities List: NO
- Cleanup Oversight Agencies: SMBRP
- Lead Agency Description: DTSC - Site Cleanup Program

**SKYPARK AIRPORT LEACHFIELD (Continued)** **S100539002**

| | |
|---|---|
| Project Manager: | Not reported |
| Supervisor: | Denise Tsuji |
| Division Branch: | Cleanup Berkeley |
| Site Code: | Not reported |
| Site Mgmt. Req.: | NONE SPECIFIED |
| Assembly: | 29 |
| Senate: | 17 |
| Special Program Status: | Not reported |
| Status: | No Further Action |
| Status Date: | 12/14/1994 |
| Restricted Use: | NO |
| Funding: | Responsible Party |
| Latitude: | 37.04583 |
| Longitude: | -122.0277 |
| APN: | NONE SPECIFIED |
| Past Use: | WASTE - SEWAGE TREATMENT PLANT |
| Potential COC : | NONE SPECIFIED No Contaminants found |
| Confirmed COC: | No Contaminants found |
| Potential Description: | NMA |
| Alias Name: | CAD980893291 |
| Alias Type: | EPA Identification Number |
| Alias Name: | 110033609316 |
| Alias Type: | EPA (FRS #) |
| Alias Name: | 44490001 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Preliminary Endangerment Assessment Report |
| Completed Date: | 12/15/1994 |
| Comments: | Not reported |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Site Screening |
| Completed Date: | 12/07/1989 |
| Comments: | DHS received EPA's Reassessment of Screening Site Inspection - EPA recommendation is Listing Site Inspection (medium). |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Site Screening |
| Completed Date: | 04/15/1987 |
| Comments: | SITE SCREENING DONE CERCLIS SITE |
| | |
| Future Area Name: | Not reported |
| Future Sub Area Name: | Not reported |
| Future Document Type: | Not reported |
| Future Due Date: | Not reported |
| Schedule Area Name: | Not reported |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Not reported |
| Schedule Due Date: | Not reported |
| Schedule Revised Date: | Not reported |

ENVIROSTOR:

**SKYPARK AIRPORT LEACHFIELD (Continued)** **S100539002**

| | |
|---|---|
| Name: | SKYPARK AIRPORT LEACHFIELD |
| Address: | MOUNT HERMAN & KING'S VILLAGE ROADS |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Facility ID: | 44490001 |
| Status: | No Further Action |
| Status Date: | 12/14/1994 |
| Site Code: | Not reported |
| Site Type: | State Response |
| Site Type Detailed: | State Response or NPL |
| Acres: | 80 |
| NPL: | NO |
| Regulatory Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Program Manager: | Not reported |
| Supervisor: | Denise Tsuji |
| Division Branch: | Cleanup Berkeley |
| Assembly: | 29 |
| Senate: | 17 |
| Special Program: | Not reported |
| Restricted Use: | NO |
| Site Mgmt Req: | NONE SPECIFIED |
| Funding: | Responsible Party |
| Latitude: | 37.04583 |
| Longitude: | -122.0277 |
| APN: | NONE SPECIFIED |
| Past Use: | WASTE - SEWAGE TREATMENT PLANT |
| Potential COC: | NONE SPECIFIED No Contaminants found |
| Confirmed COC: | No Contaminants found |
| Potential Description: | NMA |
| Alias Name: | CAD980893291 |
| Alias Type: | EPA Identification Number |
| Alias Name: | 110033609316 |
| Alias Type: | EPA (FRS #) |
| Alias Name: | 44490001 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Preliminary Endangerment Assessment Report |
| Completed Date: | 12/15/1994 |
| Comments: | Not reported |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Site Screening |
| Completed Date: | 12/07/1989 |
| Comments: | DHS received EPA's Reassessment of Screening Site Inspection - EPA recommendation is Listing Site Inspection (medium). |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Site Screening |
| Completed Date: | 04/15/1987 |
| Comments: | SITE SCREENING DONE CERCLIS SITE |
| Future Area Name: | Not reported |
| Future Sub Area Name: | Not reported |

**SKYPARK AIRPORT LEACHFIELD (Continued)** **S100539002**

| | |
|---|---|
| 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 |

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**H63** **COAST TO COAST HARDWARE** **CA FID UST** **S101625359**
**East** **218 MOUNT HERMON RD** **N/A**
**1/8-1/4** **SCOTTS VALLEY, CA 95066**
**0.170 mi.**
**896 ft.** **Site 2 of 15 in cluster H**

**Relative:** **Lower**
**Actual:** **518 ft.**

CA FID UST:

| | |
|---|---|
| Facility ID: | 44000895 |
| Regulated By: | UTNKA |
| Regulated ID: | 00046271 |
| Cortese Code: | Not reported |
| SIC Code: | Not reported |
| Facility Phone: | 4084380581 |
| Mail To: | Not reported |
| Mailing Address: | 218 MOUNT HERMON RD |
| Mailing Address 2: | Not reported |
| Mailing City,St,Zip: | SCOTTS VALLEY 95066 |
| Contact: | Not reported |
| Contact Phone: | Not reported |
| DUNs Number: | Not reported |
| NPDES Number: | Not reported |
| EPA ID: | Not reported |
| Comments: | Not reported |
| Status: | Active |

---

**H64** **COAST TO COAST HARDWARE** **LUST** **U001602064**
**East** **218 MOUNT HERMON RD** **SWEEPS UST** **N/A**
**1/8-1/4** **SCOTTS VALLEY, CA 95066** **HIST UST**
**0.170 mi.** **Cortese**
**896 ft.** **Site 3 of 15 in cluster H** **CERS**

**Relative:** **Lower**
**Actual:** **518 ft.**

LUST:

| | |
|---|---|
| Name: | COAST TO COAST HARDWARE |
| Address: | 218 MOUNT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Lead Agency: | CENTRAL COAST RWQCB (REGION 3) |
| Case Type: | LUST Cleanup Site |
| Geo Track: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608700113 |
| Global Id: | T0608700113 |
| Latitude: | 37.0466134 |
| Longitude: | -122.0264136 |
| Status: | Completed - Case Closed |
| Status Date: | 08/27/1996 |
| Case Worker: | Not reported |
| RB Case Number: | 2550 |
| Local Agency: | Not reported |
| File Location: | Not reported |
| Local Case Number: | Not reported |

**COAST TO COAST HARDWARE (Continued)** **U001602064**

Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Kerosene
Site History: Not reported

LUST:
Global Id: T0608700113
Action Type: Other
Date: 04/06/1995
Action: Leak Discovery

Global Id: T0608700113
Action Type: Other
Date: 04/06/1995
Action: Leak Stopped

Global Id: T0608700113
Action Type: Other
Date: 07/20/1995
Action: Leak Reported

Global Id: T0608700113
Action Type: ENFORCEMENT
Date: 08/21/1996
Action: Closure/No Further Action Letter

LUST:
Global Id: T0608700113
Status: Open - Case Begin Date
Status Date: 04/06/1995

Global Id: T0608700113
Status: Open - Site Assessment
Status Date: 08/01/1995

Global Id: T0608700113
Status: Completed - Case Closed
Status Date: 08/27/1996

LUST REG 3:
Region: 3
Regional Board: Central Coast Region
Facility County: Santa Cruz
Global ID: T0608700113
Status: Case Closed
Case Number: 2550
Local Case Num: Not reported
Case Type: O
Substance: Kerosene
Quantity: Not reported
Abatement Method: Excavate and Dispose - remove contaminated soil and dispose in approved site
Leak Source: Piping
Leak Cause: Loose Fitting
How Stopped: Not reported
How Discovered: Tank Closure
Release Date: 07/20/1995

**COAST TO COAST HARDWARE (Continued)** **U001602064**

Discovered Date: 4/6/95
Enter Date: 07/31/1995
Stop Date: 4/6/95
Review Date: 08/27/1996
Enforce Date: Not reported
Close Date: 8/27/96
Enforcement Type: Not reported
Responsible Party: DON SWENSON
RP Address: 218 MT HERMON RD
Contact: Not reported
Cross Street: Not reported
Local Agency: 44000
Lead Agency: Regional Board
Staff Initials: HDC
Confirm Leak: Not reported
Workplan: 8/1/95
Prelim Assess: Not reported
Pollution Char: / /
Remedial Plan: Not reported
Remedial Action: Not reported
Monitoring: / /
Pilot Program: UST
Interim Action: -
Funding: R
MTBE Class: *
Max MTBE Grnd Wtr: Not reported
Max MTBE Soil: Not reported
Max MTBE Data: / /
MTBE Tested: NRQ
Lat/Long: 37.0451626 / -122.0268105
Soil Qualifier: Not reported
Grnd Wtr Qualifier: Not reported
Mtbe Concentratn: 0
Mtbe Fuel: 0
Org Name: Not reported
Basin Plan: 4.12
Beneficial: Not reported
Priority: 1A5
UST Cleanup Fund ID: Not reported
Suspended: Not reported
Operator: Not reported
Water System: SCOTTS VALLEY WATER DISTRICT
Well Name: HIDDEN OAKS WELL GAC EFFLUENT - INACTIVE
Distance From Well: 0
Assigned Name: E44/013-HOGACTR
Summary: THIS CASE IS CLOSED

SWEEPS UST:
Name: COAST TO COAST HARDWARE
Address: 218 MOUNT HERMON RD
City: SCOTTS VALLEY
Status: Active
Comp Number: 46271
Number: 9
Board Of Equalization: 44-027237
Referral Date: 06-07-93
Action Date: 06-07-93

**COAST TO COAST HARDWARE (Continued)** **U001602064**

Created Date: 02-29-88
Owner Tank Id: 1
SWRCB Tank Id: 44-054-046271-000001
Tank Status: A
Capacity: 1000
Active Date: 04-20-93
Tank Use: PETROLEUM
STG: P
Content: KEROSENE
Number Of Tanks: 1

HIST UST:
Name: COAST TO COAST HARDWARE
Address: 218 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000046271
Facility Type: Other
Other Type: RETAIL HARDWARE
Contact Name: DONALD SWENSON
Telephone: 4084380581
Owner Name: DONSAL INC.
Owner Address: 218 MT. HERMON RD.
Owner City,St,Zip: SCOTTS VALLEY, CA 95066
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: 1984
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor, Vapor Sniff Well

CORTESE:
Name: COAST TO COAST HARDWARE
Address: 218 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0608700113
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

**COAST TO COAST HARDWARE (Continued)** **U001602064**

| | |
|---|---|
| Effective Date: | Not reported |
| Region 2: | Not reported |
| WID Id: | Not reported |
| Solid Waste Id No: | Not reported |
| Waste Management Uit Name: | Not reported |
| File Name: | Active Open |

CERS:

| | |
|---|---|
| Name: | COAST TO COAST HARDWARE |
| Address: | 218 MOUNT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Site ID: | 243195 |
| CERS ID: | T0608700113 |
| CERS Description: | Leaking Underground Storage Tank Cleanup Site |

---

**H65** **SCARBOROUGH ACE HARDWARE** **RCRA NonGen / NLR** **1024807650**
**East** **218 MT HERMON RD** **CAL000275488**
**1/8-1/4** **SCOTTS VALLEY, CA 95066**
**0.170 mi.**
**896 ft.** **Site 4 of 15 in cluster H**

**Relative:** **Lower**
**Actual:** **518 ft.**

RCRA NonGen / NLR:

| | |
|---|---|
| Date Form Received by Agency: | 2003-10-17 00:00:00.0 |
| Handler Name: | SCARBOROUGH ACE HARDWARE |
| Handler Address: | 218 MT HERMON RD |
| Handler City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| EPA ID: | CAL000275488 |
| Contact Name: | ROBIN RODDY |
| Contact Address: | 20 EL PUEBLO RD |
| Contact City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Contact Telephone: | 831-439-3308 |
| Contact Fax: | 831-438-1376 |
| Contact Email: | ROBIN@SCARBOROUGHLUMBER.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | PO BOX 66599 |
| Mailing City,State,Zip: | SCOTTS VALLEY, CA 95067-6599 |
| Owner Name: | SCARBOROUGH LBR. & BLDG. SUPPLY INC |
| Owner Type: | Other |
| Operator Name: | ROBIN RODDY |
| 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 |

**SCARBOROUGH ACE HARDWARE (Continued)** **1024807650**

| | |
|---|---|
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2018-09-05 20:25:17.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | SCARBOROUGH LBR. & BLDG. SUPPLY INC |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 20 EL PUEBLO RD |
| Owner/Operator City,State,Zip: | SCOTTS VALLEY, CA 95066-0000 |

**SCARBOROUGH ACE HARDWARE (Continued)** **1024807650**

Owner/Operator Telephone: 831-439-3308
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: ROBIN RODDY
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 20 EL PUEBLO RD
Owner/Operator City,State,Zip: SCOTTS VALLEY, CA 95066
Owner/Operator Telephone: 831-439-3308
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2003-10-17 00:00:00.0
Handler Name: SCARBOROUGH ACE HARDWARE
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: 44413
NAICS Description: HARDWARE STORES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

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**H66** **SKIPS TIRE SCOTTS VALLEY** **RCRA NonGen / NLR** **1024805237**
**East** **231 MOUNT HERMON RD** **CAL000262538**
**1/8-1/4** **SCOTTS VALLEY, CA 95066**
**0.173 mi.**
**913 ft.** **Site 5 of 15 in cluster H**

**Relative:** RCRA NonGen / NLR:
**Lower** Date Form Received by Agency: 2019-11-21 00:00:00.0
**Actual:** Handler Name: SKIPS TIRE SCOTTS VALLEY
**516 ft.** Handler Address: 231 MOUNT HERMON RD
Handler City,State,Zip: SCOTTS VALLEY, CA 95066-0000
EPA ID: CAL000262538
Contact Name: SKIP LIGHTFOOT
Contact Address: STONE AVE

**SKIPS TIRE SCOTTS VALLEY (Continued)** **1024805237**

| | |
|---|---|
| Contact City,State,Zip: | SAN JOSE, CA 95125 |
| Contact Telephone: | 408-971-3900 |
| Contact Fax: | 408-971-1901 |
| Contact Email: | K-LIGHTFOOT@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: | STONE AVE |
| Mailing City,State,Zip: | SAN JOSE, CA 95125 |
| Owner Name: | SKIPS TIRE SCOTTS VALLEY |
| Owner Type: | Other |
| Operator Name: | SKIPS TIRE SCOTTS VALLEY |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |

**SKIPS TIRE SCOTTS VALLEY (Continued)** **1024805237**

| | |
|---|---|
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2019-12-04 14:06:34.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | SKIPS TIRE SCOTTS VALLEY |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1742 STONE AVE |
| Owner/Operator City,State,Zip: | SAN JOSE, CA 95125 |
| Owner/Operator Telephone: | 408-971-3900 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | SKIPS TIRE SCOTTS VALLEY |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1742 STONE AVE |
| Owner/Operator City,State,Zip: | SAN JOSE, CA 95125 |
| Owner/Operator Telephone: | 408-971-3900 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 2019-11-21 00:00:00.0 |
| Handler Name: SKIPS TIRE SCOTTS VALLEY | |
| 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 |

**SKIPS TIRE SCOTTS VALLEY (Continued)** **1024805237**

Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 811111
NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

---

**H67** **GOODYEAR SCOTTS VALLEY** **SWEEPS UST** **S103644040**
**East** **231 MT HERMON RD** **CUPA Listings** **N/A**
**1/8-1/4** **SCOTTS VALLEY, CA 95066**
**0.173 mi.**
**913 ft.** **Site 6 of 15 in cluster H**

**Relative:** **Lower**
**Actual:** **516 ft.**

SWEEPS UST:
Name: GOODYEAR SCOTTS VALLEY
Address: 231 MT HERMON RD
City: SCOTTS VALLEY
Status: Not reported
Comp Number: 100
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: 44-054-000100-000001
Tank Status: Not reported
Capacity: 500
Active Date: Not reported
Tank Use: OIL
STG: WASTE
Content: WASTE OIL
Number Of Tanks: 1

CUPA SANTA CRUZ:
Name: SKIP'S TIRE & AUTO CENTERS -SV
Address: 231 MT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0002935
Cross Street: WHISPERING PINES
Description: HMMP STANDARD FORM FILING FEE

Name: SKIP'S TIRE & AUTO CENTERS -SV
Address: 231 MT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0002935
Cross Street: WHISPERING PINES
Description: HAZARDOUS WASTE GENERATOR (HMMP STD FORM)

**GOODYEAR SCOTTS VALLEY (Continued)** **S103644040**

Name: SKIP'S TIRE & AUTO CENTERS -SV
Address: 231 MT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0002935
Cross Street: WHISPERING PINES
Description: HMMP STANDARD FORM QR 2

---

**H68** **SCOTTS VALLEY GOODYEAR** **RCRA-SQG** **1000422068**
**East** **231 MT HERMON RD** **FINDS** **CAD982370421**
**1/8-1/4** **SCOTTS VALLEY, CA 95066** **ECHO**
**0.173 mi.**
**913 ft.** **Site 7 of 15 in cluster H**

**Relative:** **Lower**
**Actual:** **516 ft.**

RCRA-SQG:

| | |
|---|---|
| Date Form Received by Agency: | 1988-04-18 00:00:00.0 |
| Handler Name: | SCOTTS VALLEY GOODYEAR |
| Handler Address: | 231 MT HERMON RD |
| Handler City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| EPA ID: | CAD982370421 |
| Contact Name: | ENVIRONMENTAL MANAGER |
| Contact Address: | 231 MT HERMON RD |
| Contact City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Contact Telephone: | 408-438-5226 |
| 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: | MT HERMON RD |
| Mailing City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Owner Name: | LEASE FROM GOODYEAR |
| Owner Type: | Private |
| Operator Name: | NOT REQUIRED |
| Operator Type: | Private |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |

**SCOTTS VALLEY GOODYEAR (Continued)** **1000422068**

| | |
|---|---|
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | NN |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2000-09-15 17:30:17.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | Not reported |
| Manifest Broker: | Not reported |
| Sub-Part P Indicator: | Not reported |

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: | LEASE FROM GOODYEAR |
| Legal Status: | Private |
| Date Became Current: | Not reported |

**SCOTTS VALLEY GOODYEAR (Continued)** **1000422068**

| | |
|---|---|
| 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: | 1988-04-18 00:00:00.0 |
| Handler Name: | SCOTTS VALLEY GOODYEAR |
| 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: 110002802389

Click Here:

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

| | |
|---|---|
| Envid: | 1000422068 |
| Registry ID: | 110002802389 |
| DFR URL: | http://echo.epa.gov/detailed-facility-report?fid=110002802389 |
| Name: | SCOTTS VALLEY GOODYEAR |
| Address: | 231 MT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |

**H69** **GOODYEAR SCOTTS VALLEY** **CA FID UST** **S101594757**
**East** **231 MT HERMAN RD** **N/A**
**1/8-1/4** **SCOTTS VALLEY, CA 95066**
**0.173 mi.**
**913 ft.** **Site 8 of 15 in cluster H**

**Relative:** CA FID UST:
**Lower**
**Actual:** Facility ID: 44001323
**516 ft.** Regulated By: UTNKI
Regulated ID: VSF982370
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4084385226
Mail To: Not reported
Mailing Address: 881 SNEATH LN
Mailing Address 2: Not reported
Mailing City,St,Zip: SCOTTS VALLEY 95066
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

---

**H70** **TIRE CHOICE** **RCRA NonGen / NLR** **1025876096**
**East** **231 MOUNT HERMON RD** **CAL000449232**
**1/8-1/4** **SCOTTS VALLEY, CA 95066**
**0.173 mi.**
**913 ft.** **Site 9 of 15 in cluster H**

**Relative:** RCRA NonGen / NLR:
**Lower**
**Actual:** Date Form Received by Agency: 2019-09-24 00:00:00.0
**516 ft.** Handler Name: TIRE CHOICE
Handler Address: 231 MOUNT HERMON RD
Handler City,State,Zip: SCOTTS VALLEY, CA 95066
EPA ID: CAL000449232
Contact Name: TOM M GIANNONE
Contact Address: 200 HOLLEDER PKWY
Contact City,State,Zip: ROCHESTER, NY 14615
Contact Telephone: 585-784-3378
Contact Fax: 585-647-9047
Contact Email: TOM.GIANNONE@MONRO.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: 200 HOLLEDER PKWY
Mailing City,State,Zip: ROCHESTER, NY 14615
Owner Name: MNRO HOLDINGS LLC
Owner Type: Other
Operator Name: TOM M GIANNONE
Operator Type: Other
Short-Term Generator Activity: No

**TIRE CHOICE (Continued)** **1025876096**

| | |
|---|---|
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2019-09-27 16:23:59.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

**TIRE CHOICE (Continued)** **1025876096**

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | MNRO HOLDINGS LLC |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 200 HOLLEDER PKWY |
| Owner/Operator City,State,Zip: | ROCHESTER, NY 14615 |
| Owner/Operator Telephone: | 585-784-3378 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | TOM M GIANNONE |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 200 HOLLEDER PKWY |
| Owner/Operator City,State,Zip: | ROCHESTER, NY 14615 |
| Owner/Operator Telephone: | 585-784-3378 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 2019-09-24 00:00:00.0 |
| Handler Name: TIRE CHOICE | |
| 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: | 441320 |
| NAICS Description: | TIRE DEALERS |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

Evaluation Action Summary:

| | |
|---|---|
| Evaluations: | No Evaluations Found |

**H71** **MR TIRE INC** **CERS HAZ WASTE** **S113015595**
**East** **231 MT HERMON RD** **HAZNET** **N/A**
**1/8-1/4** **SCOTTS VALLEY, CA 95066** **HWTS**
**0.173 mi.**
**913 ft.** **Site 10 of 15 in cluster H**

**Relative:**
**Lower**

**Actual:**
**516 ft.**

CERS HAZ WASTE:

| | |
|---|---|
| Name: | TIRE CHOICE |
| Address: | 231 MT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Site ID: | 154015 |
| CERS ID: | 10192720 |
| CERS Description: | Hazardous Waste Generator |

Violations:

| | |
|---|---|
| Site ID: | 154015 |
| Site Name: | Tire Choice |
| Violation Date: | 01-10-2019 |
| Citation: | 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f) |
| Violation Description: | Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date. |
| Violation Notes: | Returned to compliance on 02/14/2019. Used oil and paper filter containers are not labeled with start of accumulation date. Label all containers holding hazardous waste with all information required by CCR-T22 including the start of accumulation date. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |

| | |
|---|---|
| Site ID: | 154015 |
| Site Name: | Tire Choice |
| Violation Date: | 01-03-2014 |
| Citation: | 40 CFR 1 265.174 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.174 |
| Violation Description: | Failure to inspect hazardous waste storage areas at least weekly. |
| Violation Notes: | Returned to compliance on 02/20/2014. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |

| | |
|---|---|
| Site ID: | 154015 |
| Site Name: | Tire Choice |
| Violation Date: | 01-24-2020 |
| Citation: | HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f) |
| Violation Description: | Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan. |
| Violation Notes: | The hazardous materials business plan recently submitted is incomplete, is missing the emergency response, contingency plan and an updated locally required page. The business activities page still has Lloyd's EPA I.D. number. Update the hazardous materials business plan |

**MR TIRE INC (Continued)** **S113015595**

| | |
|---|---|
| | including the above items and the inventory items with the caution symbol after the chemical name on the inventory page. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HMRRP |
| Violation Source: | CERS |
| | |
| Site ID: | 154015 |
| Site Name: | Tire Choice |
| Violation Date: | 01-10-2017 |
| Citation: | 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f) |
| Violation Description: | Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date. |
| Violation Notes: | Returned to compliance on 02/21/2017. Used oil tank not labeled with start of accumulation date. Used antifreeze drums not labeled with required information. Label the used oil tank and the used antifreeze drums with the information required by CCR-T22. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |
| | |
| Site ID: | 154015 |
| Site Name: | Tire Choice |
| Violation Date: | 02-17-2015 |
| Citation: | 19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page. |
| Violation Notes: | Returned to compliance on 02/18/2015. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HMRRP |
| Violation Source: | CERS |
| | |
| Site ID: | 154015 |
| Site Name: | Tire Choice |
| Violation Date: | 01-24-2020 |
| Citation: | 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f) |
| Violation Description: | Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date. |
| Violation Notes: | The hazardous waste oil filter drum is not labeled with the required information. Place the information required by CCR T22 on the hazardous waste oil filter drum. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |
| | |
| Site ID: | 154015 |
| Site Name: | Tire Choice |
| Violation Date: | 01-10-2017 |
| Citation: | 40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter |

**MR TIRE INC (Continued)** **S113015595**

1, Section(s) 265.173
Violation Description: Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes: Returned to compliance on 02/21/2017. Used antifreeze drums were open. Keep containers holding hazardous waste closed at all times except when pouring into them.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 154015
Site Name: Tire Choice
Violation Date: 01-02-2015
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 02/17/2015.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 154015
Site Name: Tire Choice
Violation Date: 04-09-2015
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 04/22/2015.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 154015
Site Name: Tire Choice
Violation Date: 01-03-2014
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 02/20/2014.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 154015
Site Name: Tire Choice

**MR TIRE INC (Continued)** **S113015595**

Violation Date: 01-03-2014
Citation: 19 CCR 4 2729.5 - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.5
Violation Description: Failure to submit inventory reports (Activities, Owner/Operator, Hazardous Materials Descriptions and Map pages, if required. Documentation must be resubmitted (for facilities which exceed EPCRA thresholds) or re-certified (for facilities which do not exceed EPCRA thresholds) by March 1.
Violation Notes: Returned to compliance on 10/07/2014.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 154015
Site Name: Tire Choice
Violation Date: 02-17-2015
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 02/18/2015.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 154015
Site Name: Tire Choice
Violation Date: 01-02-2015
Citation: 19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes: Returned to compliance on 02/18/2015.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 154015
Site Name: Tire Choice
Violation Date: 01-02-2015
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 02/18/2015.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 154015
Site Name: Tire Choice
Violation Date: 01-02-2015
Citation: 40 CFR 1 265.174 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.174
Violation Description: Failure to inspect hazardous waste storage areas at least weekly.

**MR TIRE INC (Continued)** **S113015595**

Violation Notes: Returned to compliance on 02/17/2015.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 154015
Site Name: Tire Choice
Violation Date: 01-03-2014
Citation: 40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173
Violation Description: Failure to properly close hazardous waste containers when not in active use.
Violation Notes: Returned to compliance on 02/20/2014.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-02-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-02-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-02-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-02-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Mr. David DeShazo,Store Manager.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-03-2014
Violations Found: Yes

**MR TIRE INC (Continued)** **S113015595**

Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-03-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-04-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-04-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-10-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by David DeShazo, Store Manager.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-10-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-10-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Mr. Eric Howard, Store Manager.
Eval Division: Santa Cruz County Environmental Health

**MR TIRE INC (Continued)** **S113015595**

Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-10-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by jason Lawfton, Service Manager.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-17-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-17-2015
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-20-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

**MR TIRE INC (Continued)** **S113015595**

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 02-20-2014 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 02-21-2017 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Inspection authorized by David DeShazo, Store Manager. All required information is now on containers holding hazardous waste. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 04-09-2015 |
| Violations Found: | Yes |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 04-10-2015 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 09-24-2014 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

Enforcement Action:

| | |
|---|---|
| Site ID: | 154015 |
| Site Name: | Tire Choice |
| Site Address: | 231 MT HERMON RD |
| Site City: | SCOTTS VALLEY |
| Site Zip: | 95066 |
| Enf Action Date: | 01-02-2015 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Santa Cruz County Environmental Health |

**MR TIRE INC (Continued)** **S113015595**

Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 154015
Site Name: Tire Choice
Site Address: 231 MT HERMON RD
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 01-02-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 154015
Site Name: Tire Choice
Site Address: 231 MT HERMON RD
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 01-03-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 154015
Site Name: Tire Choice
Site Address: 231 MT HERMON RD
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 01-03-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 154015
Site Name: Tire Choice
Site Address: 231 MT HERMON RD
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 01-10-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 154015
Site Name: Tire Choice

**MR TIRE INC (Continued)** **S113015595**

Site Address: 231 MT HERMON RD
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 02-17-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 154015
Site Name: Tire Choice
Site Address: 231 MT HERMON RD
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 04-09-2015
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 Cruz County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:
Site ID: 154015
Facility Name: Tire Choice
Env Int Type Code: HWG
Program ID: 10192720
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 37.045177
Longitude: -122.027878

Affiliation:
Affiliation Type Desc: Identification Signer
Entity Name: Thomas M Giannone
Entity Title: Director of Facilities
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: MNRO Holdings, LLC dba Tire Choice
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact

**MR TIRE INC (Continued)** **S113015595**

| | |
|---|---|
| Entity Name: | Thomas M. Giannone |
| Entity Title: | Not reported |
| Affiliation Address: | 200 Holleder Parkway |
| Affiliation City: | Rochester |
| Affiliation State: | NY |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 14615 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | 200 Holleder Parkway |
| Affiliation City: | Rochester |
| Affiliation State: | NY |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 14615 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Property Owner |
| Entity Name: | Scotts Valley Plaza, L.P. |
| Entity Title: | Not reported |
| Affiliation Address: | 1606 N. Main Street |
| Affiliation City: | Salinas |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 93609 |
| Affiliation Phone: | (831) 449-6672 |
| | |
| Affiliation Type Desc: | CUPA District |
| Entity Name: | Santa Cruz County Environmental Health |
| Entity Title: | Not reported |
| Affiliation Address: | 701 Ocean Boulevard, Suite 312 |
| Affiliation City: | Santa Cruz |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95060 |
| Affiliation Phone: | (831) 454-2022 |
| | |
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | Lauren Mitchell |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | MNRO Holdings, LLC |
| Entity Title: | Not reported |
| Affiliation Address: | 200 Holleder Parkway |
| Affiliation City: | Rochester |
| Affiliation State: | NY |
| Affiliation Country: | United States |
| Affiliation Zip: | 14615 |

**MR TIRE INC (Continued)** **S113015595**

Affiliation Phone: (585) 647-6400

Affiliation Type Desc: Operator
Entity Name: MNRO Holdings, LLC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (585) 647-6400

HAZNET:
Name: MR TIRE INC
Address: 231 MT HERMON RD
Address 2: Not reported
City,State,Zip: SCOTTS VALLEY, CA 950660000
Contact: UNDELIVERABLE 1996 FEES FORM
Telephone: 4084234225
Mailing Name: Not reported
Mailing Address: 231 MT HERMON RD

Year: 1994
Gepaid: CAD982370421
TSD EPA ID: CAD009452657
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: R01 - Recycler
Tons: 0.663

Year: 1993
Gepaid: CAD982370421
TSD EPA ID: CAD088838222
CA Waste Code: 135 - Unspecified aqueous solution
Disposal Method: R01 - Recycler
Tons: 0.42

Year: 1993
Gepaid: CAD982370421
TSD EPA ID: CAD009452657
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: R01 - Recycler
Tons: 0.6392

Year: 1992
Gepaid: CAD982370421
TSD EPA ID: CAD009452657
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: R01 - Recycler
Tons: 1.0216

Year: 1991
Gepaid: CAD982370421
TSD EPA ID: CAD009452657
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: R01 - Recycler
Tons: 0.2085

**MR TIRE INC (Continued)** **S113015595**

Year: 1991
Gepaid: CAD982370421
TSD EPA ID: CAD009452657
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: R01 - Recycler
Tons: 0.3961

Year: 1990
Gepaid: CAD982370421
TSD EPA ID: CAD009452657
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: R01 - Recycler
Tons: 0.834

Year: 1990
Gepaid: CAD982370421
TSD EPA ID: CAD009452657
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: R01 - Recycler
Tons: 0.417

Year: 1989
Gepaid: CAD982370421
TSD EPA ID: CAD009452657
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: R01 - Recycler
Tons: 1.0466

Year: 1988
Gepaid: CAD982370421
TSD EPA ID: CAD020748125
CA Waste Code: 512 - Other empty containers 30 gallons or more
Disposal Method: D80 - Disposal, Land Fill
Tons: 2.085

Click this hyperlink while viewing on your computer to access
1 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 1994
Gen EPA ID: CAD982370421

Shipment Date: 19940622
Creation Date: 3/26/1996 0:00:00
Receipt Date: 19940622
Manifest ID: 93158904
Trans EPA ID: CAD981694664
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD009452657
Trans Name: Not reported
TSDF Alt EPA ID: CAD009452657
TSDF Alt Name: Not reported
Waste Code Description: 343 - Unspecified organic liquid mixture
RCRA Code: Not reported

**MR TIRE INC (Continued)** **S113015595**

| | |
|---|---|
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.136 |
| Waste Quantity: | 40 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19940503 |
| Creation Date: | 3/25/1996 0:00:00 |
| Receipt Date: | 19940503 |
| Manifest ID: | 93161298 |
| Trans EPA ID: | CAD981694664 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD009452657 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD009452657 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.255 |
| Waste Quantity: | 75 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19940222 |
| Creation Date: | 9/15/1995 0:00:00 |
| Receipt Date: | 19940228 |
| Manifest ID: | 93083310 |
| Trans EPA ID: | CAD981694664 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD009452657 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.272 |
| Waste Quantity: | 80 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**MR TIRE INC (Continued)** **S113015595**

Additional Info:

| | |
|---|---|
| Year: | 1993 |
| Gen EPA ID: | CAD982370421 |
| Shipment Date: | 19931020 |
| Creation Date: | 9/14/1995 0:00:00 |
| Receipt Date: | 19931020 |
| Manifest ID: | 93161997 |
| Trans EPA ID: | CAD981694664 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD009452657 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.272 |
| Waste Quantity: | 80 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 19930707 |
| Creation Date: | 9/9/1995 0:00:00 |
| Receipt Date: | 19930707 |
| Manifest ID: | 92185065 |
| Trans EPA ID: | CAD088838222 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD088838222 |
| 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: | R01 - Recycler |
| Quantity Tons: | 0.42 |
| 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 |
| Shipment Date: | 19930211 |
| Creation Date: | 9/7/1995 0:00:00 |
| Receipt Date: | 19930302 |
| Manifest ID: | 92050216 |
| Trans EPA ID: | CAD981694664 |

**MR TIRE INC (Continued)** **S113015595**

| | |
|---|---|
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD009452657 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD009452657 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.3672 |
| Waste Quantity: | 108 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

HWTS:

| | |
|---|---|
| Name: | MR TIRE INC |
| Address: | 231 MT HERMON RD |
| Address 2: | Not reported |
| City,State,Zip: | SCOTTS VALLEY, CA 950660000 |
| EPA ID: | CAD982370421 |
| Inactive Date: | 06/30/1996 |
| Create Date: | 06/17/1988 |
| Last Act Date: | 08/10/2004 |
| Mailing Name: | Not reported |
| Mailing Address: | 231 MT HERMON RD |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | SCOTTS VALLEY, CA 950660000 |
| Owner Name: | GOODYEAR CERTIFIED AUTO SVS |
| Owner Address: | 1219 SOQUEL AVENUE |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | SANTA CRUZ, CA 950620000 |
| Contact Name: | UNDELIVERABLE 1996 FEES FORM |
| Contact Address: | 1219 SOQUEL AVENUE |
| Contact Address 2: | Not reported |
| City,State,Zip: | SANTA CRUZ, CA 950620000 |

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**H72** **WALGREENS #6214** **RCRA-VSQG** **1016954387**
**East** **210 MOUNT HERMON RD** **CAL000323939**
**1/8-1/4** **SCOTTS VALLEY, CA 95066**
**0.188 mi.**
**995 ft.** **Site 11 of 15 in cluster H**

**Relative:** RCRA-VSQG:
**Lower**

| | | |
|---|---|---|
| Date Form Received by Agency: | | 2016-04-06 00:00:00.0 |
| **Actual:** Handler Name: | WALGREENS #6214 | |
| **519 ft.** Handler Address: | | 210 MOUNT HERMON RD |
| Handler City,State,Zip: | | SCOTTS VALLEY, CA 95066 |
| EPA ID: | | CAL000323939 |
| Contact Name: | | KARINA ROMERO |
| Contact Address: | | GREYHAWK CT |
| Contact City,State,Zip: | | CARLSBAD, CA 92010 |
| Contact Telephone: | | 760-602-8700 |

**WALGREENS #6214 (Continued)** **1016954387**

| | |
|---|---|
| Contact Fax: | 760-918-4025 |
| Contact Email: | REGULATORY@3ECOMPANY.COM |
| Contact Title: | BUSINESS SOLUTIONS SPECIALIST |
| EPA Region: | 09 |
| Land Type: | Private |
| Federal Waste Generator Description: | Conditionally Exempt Small Quantity Generator |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | 2015 |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | GREYHAWK CT |
| Mailing City,State,Zip: | CARLSBAD, CA 92010 |
| Owner Name: | KINGS VILLAGE SHOPPING CENTER |
| Owner Type: | Private |
| Operator Name: | WALGREEN CO. |
| Operator Type: | Private |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | NN |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |

**WALGREENS #6214 (Continued)** **1016954387**

| | |
|---|---|
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2016-11-04 19:42:33.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | Not reported |
| Manifest Broker: | Not reported |
| Sub-Part P Indicator: | Not reported |

Biennial: List of Years
Year: 2015

Click Here for Biennial Reporting System Data:
Year: 2013

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:

| | |
|---|---|
| Waste Code: | D001 |
| Waste Description: | IGNITABLE WASTE |
| Waste Code: | D002 |
| Waste Description: | CORROSIVE WASTE |
| Waste Code: | D007 |
| Waste Description: | CHROMIUM |
| Waste Code: | D009 |
| Waste Description: | MERCURY |
| Waste Code: | D010 |
| Waste Description: | SELENIUM |
| Waste Code: | D024 |
| Waste Description: | M-CRESOL |
| Waste Code: | P001 |
| Waste Description: | 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% |
| Waste Code: | P075 |
| Waste Description: | NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS |
| Waste Code: | U034 |
| Waste Description: | ACETALDEHYDE, TRICHLORO- (OR) CHLORAL |

**WALGREENS #6214 (Continued)** **1016954387**

Waste Code: U165
Waste Description: NAPHTHALENE

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | WALGREEN CO |
| Legal Status: | Private |
| Date Became Current: | 2001-08-04 00:00:00. |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | Not reported |
| Owner/Operator City,State,Zip: | Not reported |
| Owner/Operator Telephone: | Not reported |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | KINGS VILLAGE SHOPPING CENTER |
| Legal Status: | Private |
| Date Became Current: | 2001-06-04 00:00:00. |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 230 MT HERMON ROAD STE 200 |
| Owner/Operator City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Owner/Operator Telephone: | 831-438-2810 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | KINGS VILLAGE SHOPPING CENTER |
| Legal Status: | Private |
| Date Became Current: | 2001-08-04 00:00:00. |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 230 MT HERMON RD, STE 200 |
| Owner/Operator City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Owner/Operator Telephone: | 831-438-2810 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | WALGREEN CO. |
| Legal Status: | Private |
| Date Became Current: | 2001-06-23 00:00:00. |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | Not reported |
| Owner/Operator City,State,Zip: | Not reported |
| Owner/Operator Telephone: | Not reported |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 2014-06-09 00:00:00.0 |
| Handler Name: WALGREENS #6214 | |
| Federal Waste Generator Description: | Conditionally Exempt Small Quantity Generator |

**WALGREENS #6214 (Continued)** **1016954387**

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: 2016-04-06 00:00:00.0
Handler Name: WALGREENS #6214
Federal Waste Generator Description: Conditionally Exempt 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: 44611
NAICS Description: PHARMACIES AND DRUG STORES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

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**H73** **WALGREENS #6214** **CERS HAZ WASTE** **S113149458**
**East** **210 MOUNT HERMON RD** **CUPA Listings** **N/A**
**1/8-1/4** **SCOTTS VALLEY, CA 95066** **HAZNET**
**0.188 mi.** **CERS**
**995 ft.** **Site 12 of 15 in cluster H** **HWTS**

**Relative:** **Lower**
**Actual:** **519 ft.**

CERS HAZ WASTE:
Name: WALGREENS #6214
Address: 210 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Site ID: 84284
CERS ID: 10447756
CERS Description: Hazardous Waste Generator

CUPA SANTA CRUZ:
Name: WALGREENS #6214
Address: 210 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0004157
Cross Street: SCOTTS VALLEY DRIVE
Description: HAZARDOUS WASTE GENERATOR (HMMP STD FORM)

**WALGREENS #6214 (Continued)** **S113149458**

Name: WALGREENS #6214
Address: 210 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0004157
Cross Street: SCOTTS VALLEY DRIVE
Description: HMMP STANDARD FORM QR 2

Name: WALGREENS #6214
Address: 210 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0004157
Cross Street: SCOTTS VALLEY DRIVE
Description: HMMP STANDARD FORM FILING FEE

HAZNET:

| | |
|---|---|
| Name: | WALGREENS #6214 |
| Address: | 210 MOUNT HERMON RD |
| Address 2: | Not reported |
| City,State,Zip: | SCOTTS VALLEY, CA 920100000 |
| Contact: | KARINA ROMERO |
| Telephone: | 7606028700 |
| Mailing Name: | Not reported |
| Mailing Address: | 3207 GREY HAWK CT. SUITE 200 |
| Year: | 2019 |
| Gepaid: | CAL000323939 |
| 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: | 0.01000 |
| Year: | 2019 |
| Gepaid: | CAL000323939 |
| TSD EPA ID: | NVD980895338 |
| CA Waste Code: | 131 - Aqueous solution (2 < pH < 12.5) containing reactive anions ... |
| Disposal Method: | H070 - |
| Tons: | 0.00050 |
| Year: | 2019 |
| Gepaid: | CAL000323939 |
| TSD EPA ID: | AZR000515924 |
| CA Waste Code: | 352 - Other organic solids |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.00700 |
| Year: | 2019 |
| Gepaid: | CAL000323939 |
| TSD EPA ID: | INR000110197 |
| 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: | 0.00150 |
| Year: | 2019 |
| Gepaid: | CAL000323939 |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| 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: | 0.00700 |
| Year: | 2019 |
| Gepaid: | CAL000323939 |
| 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: | 0.04650 |
| Year: | 2019 |
| Gepaid: | CAL000323939 |
| TSD EPA ID: | NVD980895338 |
| CA Waste Code: | 122 - Alkaline solution without metals pH >= 12.5 |
| Disposal Method: | H121 - Neutralization Only |
| Tons: | 0.20550 |
| Year: | 2019 |
| Gepaid: | CAL000323939 |
| TSD EPA ID: | CAD008364432 |
| 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: | 0.02650 |
| Year: | 2019 |
| Gepaid: | CAL000323939 |
| 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: | 0.39900 |
| Year: | 2018 |
| Gepaid: | CAL000323939 |
| TSD EPA ID: | CAD008364432 |
| CA Waste Code: | 791 - Liquids with pH <= 2 |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.00050 |

Click this hyperlink while viewing on your computer to access
81 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

| | |
|---|---|
| Year: | 2009 |
| Gen EPA ID: | CAL000323939 |
| Shipment Date: | 20091008 |
| Creation Date: | 5/20/2010 18:30:26 |
| Receipt Date: | 20091030 |
| Manifest ID: | 002554920FLE |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Trans EPA ID: | MNS000100924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | OHD083377010 |
| Trans Name: | ENVIRONMENTAL ENTERPRISES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.006 |
| Waste Quantity: | 12 |
| 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: | 20090709 |
| Creation Date: | 12/8/2009 18:30:09 |
| Receipt Date: | 20090723 |
| Manifest ID: | 002554552FLE |
| Trans EPA ID: | MNS000100924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | OHD083377010 |
| Trans Name: | ENVIRONMENTAL ENTERPRISES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.007 |
| Waste Quantity: | 14 |
| 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: | 20090107 |
| Creation Date: | 5/27/2009 18:30:08 |
| Receipt Date: | 20090122 |
| Manifest ID: | 002581518FLE |
| Trans EPA ID: | SCD987584778 |
| Trans Name: | SUMTER TRANSPORT COMPANY |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | OHD083377010 |
| Trans Name: | ENVIRONMENTAL ENTERPRISES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| RCRA Code: | D001 |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.004 |
| Waste Quantity: | 8 |
| 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: | 20090107 |
| Creation Date: | 5/27/2009 18:30:08 |
| Receipt Date: | 20090122 |
| Manifest ID: | 002581518FLE |
| Trans EPA ID: | SCD987584778 |
| Trans Name: | SUMTER TRANSPORT COMPANY |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | OHD083377010 |
| Trans Name: | ENVIRONMENTAL ENTERPRISES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| 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: | 20090107 |
| Creation Date: | 5/27/2009 18:30:08 |
| Receipt Date: | 20090122 |
| Manifest ID: | 002581518FLE |
| Trans EPA ID: | SCD987584778 |
| Trans Name: | SUMTER TRANSPORT COMPANY |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | OHD083377010 |
| Trans Name: | ENVIRONMENTAL ENTERPRISES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.0025 |
| Waste Quantity: | 5 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Additional Code 5: | Not reported |
| Shipment Date: | 20090107 |
| Creation Date: | 5/27/2009 18:30:08 |
| Receipt Date: | 20090122 |
| Manifest ID: | 002581518FLE |
| Trans EPA ID: | SCD987584778 |
| Trans Name: | SUMTER TRANSPORT COMPANY |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | OHD083377010 |
| Trans Name: | ENVIRONMENTAL ENTERPRISES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.006 |
| Waste Quantity: | 12 |
| 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: | 2015 |
| Gen EPA ID: | CAL000323939 |
| Shipment Date: | 20151117 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 008620062FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAR000210617 |
| Trans 2 Name: | 21ST CENTURY ENVIRONMENTAL OF CALIFORNIA |
| TSDF EPA ID: | CAD980884183 |
| Trans Name: | GENERAL ENVIRONMENTAL MGT LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| 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: | 20151117 |
| Creation Date: | Not reported |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Receipt Date: | Not reported |
| Manifest ID: | 008620062FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAR000210617 |
| Trans 2 Name: | 21ST CENTURY ENVIRONMENTAL OF CALIFORNIA |
| TSDF EPA ID: | CAD980884183 |
| Trans Name: | GENERAL ENVIRONMENTAL MGT 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: | 0.079 |
| Waste Quantity: | 158 |
| 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: | 20151117 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 008620062FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAR000210617 |
| Trans 2 Name: | 21ST CENTURY ENVIRONMENTAL OF CALIFORNIA |
| TSDF EPA ID: | CAD980884183 |
| Trans Name: | GENERAL ENVIRONMENTAL MGT 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: | 0.046 |
| Waste Quantity: | 92 |
| 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: | 20151117 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 008620062FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAR000210617 |
| Trans 2 Name: | 21ST CENTURY ENVIRONMENTAL OF CALIFORNIA |
| TSDF EPA ID: | CAD980884183 |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Trans Name: | GENERAL ENVIRONMENTAL MGT LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.025 |
| Waste Quantity: | 50 |
| 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: | 20151117 |
| Creation Date: | 3/2/2016 22:15:14 |
| Receipt Date: | 20151208 |
| Manifest ID: | 008620062FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAR000210617 |
| Trans 2 Name: | 21ST CENTURY ENVIRONMENTAL OF CALIFORNIA |
| TSDF EPA ID: | CAD980884183 |
| Trans Name: | GENERAL ENVIRONMENTAL MGT LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | P001 |
| 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: | 20151117 |
| Creation Date: | 9/29/2016 18:33:11 |
| Receipt Date: | 20151223 |
| Manifest ID: | 008620063FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAR000210617 |
| Trans 2 Name: | 21ST CENTURY ENVIRONMENTAL OF CALIFORNIA |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 181 - Other inorganic solid waste Organics |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Quantity Tons: | 0.001 |
| Waste Quantity: | 2 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20151117 |
| Creation Date: | 3/2/2016 22:15:14 |
| Receipt Date: | 20151208 |
| Manifest ID: | 008620062FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAR000210617 |
| Trans 2 Name: | 21ST CENTURY ENVIRONMENTAL OF CALIFORNIA |
| TSDF EPA ID: | CAD980884183 |
| Trans Name: | GENERAL ENVIRONMENTAL MGT LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| 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 |
| | |
| Shipment Date: | 20151117 |
| Creation Date: | 3/2/2016 22:15:14 |
| Receipt Date: | 20151208 |
| Manifest ID: | 008620062FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAR000210617 |
| Trans 2 Name: | 21ST CENTURY ENVIRONMENTAL OF CALIFORNIA |
| TSDF EPA ID: | CAD980884183 |
| Trans Name: | GENERAL ENVIRONMENTAL MGT LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.004 |
| Waste Quantity: | 8 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20151117 |
| Creation Date: | 3/2/2016 22:15:14 |
| Receipt Date: | 20151208 |
| Manifest ID: | 008620062FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAR000210617 |
| Trans 2 Name: | 21ST CENTURY ENVIRONMENTAL OF CALIFORNIA |
| TSDF EPA ID: | CAD980884183 |
| Trans Name: | GENERAL ENVIRONMENTAL MGT LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.006 |
| Waste Quantity: | 12 |
| 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: | 20151117 |
| Creation Date: | 9/29/2016 18:33:11 |
| Receipt Date: | 20151223 |
| Manifest ID: | 008620063FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAR000210617 |
| Trans 2 Name: | 21ST CENTURY ENVIRONMENTAL OF CALIFORNIA |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 141 - Off-specification, aged, or surplus inorganics |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0015 |
| Waste Quantity: | 3 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2008 |
| Gen EPA ID: | CAL000323939 |
| | |
| Shipment Date: | 20081001 |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Creation Date: | 3/9/2009 18:30:46 |
| Receipt Date: | 20081030 |
| Manifest ID: | 001107849FLE |
| Trans EPA ID: | SCD987584778 |
| Trans Name: | SUMTER TRANSPORT COMPANY |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT |
| TSDF EPA ID: | OHD083377010 |
| Trans Name: | ENVIRONMENTAL ENTERPRISES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.008 |
| Waste Quantity: | 16 |
| 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: | 20080702 |
| Creation Date: | 12/30/2008 18:30:19 |
| Receipt Date: | 20080721 |
| Manifest ID: | 001107609FLE |
| Trans EPA ID: | SCD987584778 |
| Trans Name: | SUMTER TRANSPORT COMPANY |
| Trans 2 EPA ID: | OKD918588791 |
| Trans 2 Name: | TRIAD TRANSPORT |
| TSDF EPA ID: | OHD083377010 |
| Trans Name: | ENVIRONMENTAL ENTERPRISES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.0015 |
| Waste Quantity: | 3 |
| 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: | 20080702 |
| Creation Date: | 12/30/2008 18:30:19 |
| Receipt Date: | 20080721 |
| Manifest ID: | 001107609FLE |
| Trans EPA ID: | SCD987584778 |
| Trans Name: | SUMTER TRANSPORT COMPANY |
| Trans 2 EPA ID: | OKD918588791 |
| Trans 2 Name: | TRIAD TRANSPORT |
| TSDF EPA ID: | OHD083377010 |
| Trans Name: | ENVIRONMENTAL ENTERPRISES INC |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 131 - Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions |
| RCRA Code: | D001 |
| Meth Code: | H071 - Chemical Reduction With Or Without Precipitation |
| Quantity Tons: | 0.009 |
| Waste Quantity: | 18 |
| 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: | 20080702 |
| Creation Date: | 12/30/2008 18:30:19 |
| Receipt Date: | 20080721 |
| Manifest ID: | 001107609FLE |
| Trans EPA ID: | SCD987584778 |
| Trans Name: | SUMTER TRANSPORT COMPANY |
| Trans 2 EPA ID: | OKD918588791 |
| Trans 2 Name: | TRIAD TRANSPORT |
| TSDF EPA ID: | OHD083377010 |
| Trans Name: | ENVIRONMENTAL ENTERPRISES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.002 |
| Waste Quantity: | 4 |
| 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: | 20080702 |
| Creation Date: | 12/30/2008 18:30:19 |
| Receipt Date: | 20080721 |
| Manifest ID: | 001107609FLE |
| Trans EPA ID: | SCD987584778 |
| Trans Name: | SUMTER TRANSPORT COMPANY |
| Trans 2 EPA ID: | OKD918588791 |
| Trans 2 Name: | TRIAD TRANSPORT |
| TSDF EPA ID: | OHD083377010 |
| Trans Name: | ENVIRONMENTAL ENTERPRISES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.0245 |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Waste Quantity: | 49 |
| 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: | 20080402 |
| Creation Date: | 10/1/2008 18:30:07 |
| Receipt Date: | 20080414 |
| Manifest ID: | 001100388FLE |
| Trans EPA ID: | SCD987584778 |
| Trans Name: | SUMTER TRANSPORT COMPANY |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | OHD083377010 |
| Trans Name: | ENVIRONMENTAL ENTERPRISES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| 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: | 20080402 |
| Creation Date: | 10/1/2008 18:30:07 |
| Receipt Date: | 20080414 |
| Manifest ID: | 001100388FLE |
| Trans EPA ID: | SCD987584778 |
| Trans Name: | SUMTER TRANSPORT COMPANY |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | OHD083377010 |
| Trans Name: | ENVIRONMENTAL ENTERPRISES INC |
| TSDF Alt EPA ID: | Not reported |
| 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: | H121 - Neutralization Only |
| 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: | 20080402 |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Creation Date: | 10/1/2008 18:30:07 |
| Receipt Date: | 20080414 |
| Manifest ID: | 001100388FLE |
| Trans EPA ID: | SCD987584778 |
| Trans Name: | SUMTER TRANSPORT COMPANY |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | OHD083377010 |
| Trans Name: | ENVIRONMENTAL ENTERPRISES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.006 |
| Waste Quantity: | 12 |
| 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: | 20080402 |
| Creation Date: | 10/1/2008 18:30:07 |
| Receipt Date: | 20080414 |
| Manifest ID: | 001100388FLE |
| Trans EPA ID: | SCD987584778 |
| Trans Name: | SUMTER TRANSPORT COMPANY |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | OHD083377010 |
| Trans Name: | ENVIRONMENTAL ENTERPRISES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0135 |
| Waste Quantity: | 27 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20080102 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 001100148FLE |
| Trans EPA ID: | SCD987584778 |
| Trans Name: | SUMTER TRANSPORT COMPANY |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD |
| TSDF EPA ID: | OHD083377010 |

**WALGREENS #6214 (Continued)** **S113149458**

Trans Name: ENVIRONMENTAL ENTERPRISES INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: - Not reported
RCRA Code: Not reported
Meth Code: - Not reported
Quantity Tons: 0.0095
Waste Quantity: 19
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2013
Gen EPA ID: CAL000323939

Shipment Date: 20131105
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 006231632FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: NED986382133
Trans 2 Name: SMITH SYSTEMS TRANSPORTATION INC
TSDF EPA ID: INR000110197
Trans Name: STERICYCLE INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: - Not reported
RCRA Code: Not reported
Meth Code: - Not reported
Quantity Tons: 0.001
Waste Quantity: 2
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20131105
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 006231632FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: NED986382133
Trans 2 Name: SMITH SYSTEMS TRANSPORTATION INC
TSDF EPA ID: INR000110197
Trans Name: STERICYCLE INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 331 - Off-specification, aged, or surplus organics
RCRA Code: Not reported

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Meth Code: | - Not reported |
| Quantity Tons: | 0.0285 |
| Waste Quantity: | 57 |
| 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: | 20131105 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 006231632FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.087 |
| Waste Quantity: | 174 |
| 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: | 20131105 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 006231632FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.0275 |
| Waste Quantity: | 55 |
| 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 |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Shipment Date: | 20131105 |
| Creation Date: | 4/15/2014 22:15:05 |
| Receipt Date: | 20131119 |
| Manifest ID: | 006231632FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| 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: | 20131105 |
| Creation Date: | 4/15/2014 22:15:05 |
| Receipt Date: | 20131119 |
| Manifest ID: | 006231632FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 122 - Alkaline solution without metals (pH > 12.5 |
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0065 |
| Waste Quantity: | 13 |
| 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: | 20131105 |
| Creation Date: | 4/15/2014 22:15:05 |
| Receipt Date: | 20131119 |
| Manifest ID: | 006231632FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| 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: | 20131105 |
| Creation Date: | 4/15/2014 22:15:05 |
| Receipt Date: | 20131119 |
| Manifest ID: | 006231632FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | P001 |
| 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: | 20130831 |
| Creation Date: | 1/11/2014 22:15:06 |
| Receipt Date: | 20130916 |
| Manifest ID: | 005894223FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.004 |
| Waste Quantity: | 8 |
| 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: | 20130831 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005894223FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| 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: | 2011 |
| Gen EPA ID: | CAL000323939 |
| | |
| Shipment Date: | 20111220 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005016202FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.008 |
| Waste Quantity: | 16 |
| Quantity Unit: | P |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20111220 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005016202FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.0105 |
| Waste Quantity: | 21 |
| 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: | 20111220 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005016202FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| 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: | 20111220 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Manifest ID: | 005016202FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.0015 |
| Waste Quantity: | 3 |
| 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: | 20111220 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005016202FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 232 - Pesticides and other waste associated with pesticide production |
| 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: | 20111220 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005016202FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.011 |
| Waste Quantity: | 22 |
| 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: | 20111220 |
| Creation Date: | 12/3/2012 22:15:55 |
| Receipt Date: | 20120104 |
| Manifest ID: | 005016202FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 122 - Alkaline solution without metals (pH > 12.5 |
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.002 |
| Waste Quantity: | 4 |
| 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: | 20111220 |
| Creation Date: | 12/3/2012 22:15:55 |
| Receipt Date: | 20120104 |
| Manifest ID: | 005016202FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 131 - Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0015 |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Waste Quantity: | 3 |
| 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: | 20111220 |
| Creation Date: | 12/3/2012 22:15:55 |
| Receipt Date: | 20120104 |
| Manifest ID: | 005016202FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| 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: | 20111220 |
| Creation Date: | 12/3/2012 22:15:55 |
| Receipt Date: | 20120104 |
| Manifest ID: | 005016202FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.006 |
| Waste Quantity: | 12 |
| 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 |

**WALGREENS #6214 (Continued)** **S113149458**

Additional Info:

| | |
|---|---|
| Year: | 2012 |
| Gen EPA ID: | CAL000323939 |
| Shipment Date: | 20121004 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005409099FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.0475 |
| Waste Quantity: | 95 |
| 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: | 20121004 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005409099FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| 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: | 20121004 |
| Creation Date: | 4/6/2013 22:15:07 |
| Receipt Date: | 20121019 |
| Manifest ID: | 005409099FLE |
| Trans EPA ID: | MNS000110924 |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| 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: | 20121004 |
| Creation Date: | 4/6/2013 22:15:07 |
| Receipt Date: | 20121019 |
| Manifest ID: | 005409099FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 122 - Alkaline solution without metals (pH > 12.5 |
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0025 |
| Waste Quantity: | 5 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20121004 |
| Creation Date: | 4/6/2013 22:15:07 |
| Receipt Date: | 20121019 |
| Manifest ID: | 005409099FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 131 - Aqueous solution (2 < pH < 12.5) containing reactive anions |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| | (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0015 |
| Waste Quantity: | 3 |
| 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: | 20121004 |
| Creation Date: | 4/6/2013 22:15:07 |
| Receipt Date: | 20121019 |
| Manifest ID: | 005409099FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0015 |
| Waste Quantity: | 3 |
| 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: | 20121004 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005409099FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.002 |
| Waste Quantity: | 4 |
| Quantity Unit: | P |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20121004 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005409099FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.001 |
| Waste Quantity: | 2 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20120706 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005496497FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.0065 |
| Waste Quantity: | 13 |
| 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: | 20120706 |
| Creation Date: | 12/11/2012 22:16:18 |
| Receipt Date: | 20120723 |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Manifest ID: | 005496497FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 131 - Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions |
| RCRA Code: | D001 |
| 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 |

Additional Info:

| | |
|---|---|
| Year: | 2014 |
| Gen EPA ID: | CAL000323939 |
| Shipment Date: | 20141216 |
| Creation Date: | 6/25/2015 22:16:11 |
| Receipt Date: | 20150102 |
| Manifest ID: | 007263365FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | INR000110197 |
| Trans Name: | STERICYCLE INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.004 |
| Waste Quantity: | 8 |
| 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: | 20141216 |
| Creation Date: | 5/18/2015 22:15:16 |
| Receipt Date: | 20141222 |
| Manifest ID: | 007263366FLE |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| 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 |
| Shipment Date: | 20141216 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 007263366FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 181 - Other inorganic solid waste Organics |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0205 |
| Waste Quantity: | 41 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20141216 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 007263366FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 141 - Off-specification, aged, or surplus inorganics |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.054 |
| Waste Quantity: | 108 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20141216 |
| Creation Date: | 5/18/2015 22:15:16 |
| Receipt Date: | 20141222 |
| Manifest ID: | 007263366FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| 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: | 20141216 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 007263366FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.004 |
| Waste Quantity: | 8 |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| 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: | 20141216 |
| Creation Date: | 5/18/2015 22:15:16 |
| Receipt Date: | 20141222 |
| Manifest ID: | 007263366FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | P001 |
| 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: | 20141216 |
| Creation Date: | 5/18/2015 22:15:16 |
| Receipt Date: | 20141222 |
| Manifest ID: | 007263366FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| 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 |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Shipment Date: | 20141216 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 007263366FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0285 |
| Waste Quantity: | 57 |
| 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: | 20141023 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 006318938FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION INC |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 141 - Off-specification, aged, or surplus inorganics |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.07 |
| Waste Quantity: | 140 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2017 |
| Gen EPA ID: | CAL000323939 |

| | |
|---|---|
| Shipment Date: | 20171204 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Manifest ID: | 010685319FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM 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: | 0.1235 |
| Waste Quantity: | 247 |
| 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: | 20171204 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 010685319FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM 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: | 0.0045 |
| Waste Quantity: | 9 |
| 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: | 20171204 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 010685319FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | P001 |
| 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: | 20171204 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 010685319FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | D010 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0015 |
| Waste Quantity: | 3 |
| Quantity Unit: | P |
| Additional Code 1: | D007 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20171204 |
| Creation Date: | 9/14/2018 18:31:06 |
| Receipt Date: | 20180125 |
| Manifest ID: | 010685319FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM 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 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0065 |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Waste Quantity: | 13 |
| 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: | 20171204 |
| Creation Date: | 9/14/2018 18:31:06 |
| Receipt Date: | 20180125 |
| Manifest ID: | 010685319FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 131 - Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0015 |
| Waste Quantity: | 3 |
| 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: | 20171204 |
| Creation Date: | 9/14/2018 18:31:06 |
| Receipt Date: | 20180125 |
| Manifest ID: | 010685319FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM 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 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.003 |
| Waste Quantity: | 6 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20171204 |
| Creation Date: | 9/14/2018 18:31:06 |
| Receipt Date: | 20180125 |
| Manifest ID: | 010685319FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 122 - Alkaline solution without metals (pH > 12.5 |
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.018 |
| Waste Quantity: | 36 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20170920 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 010677427FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION |
| 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: | 0.117 |
| Waste Quantity: | 234 |
| 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: | 20170920 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 010677427FLE |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION |
| 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: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.003 |
| Waste Quantity: | 6 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2007 |
| Gen EPA ID: | CAL000323939 |
| Shipment Date: | 20070926 |
| Creation Date: | 3/18/2008 18:30:12 |
| Receipt Date: | 20071009 |
| Manifest ID: | 001100013FLE |
| Trans EPA ID: | SCD987584778 |
| Trans Name: | SUMTER TRANSPORT COMPANY |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | OHD083377010 |
| Trans Name: | ENVIRONMENTAL ENTERPRISES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.021 |
| Waste Quantity: | 42 |
| 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: | 20070926 |
| Creation Date: | 3/18/2008 18:30:12 |
| Receipt Date: | 20071009 |
| Manifest ID: | 001100013FLE |
| Trans EPA ID: | SCD987584778 |
| Trans Name: | SUMTER TRANSPORT COMPANY |
| Trans 2 EPA ID: | OKD981588791 |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | OHD083377010 |
| Trans Name: | ENVIRONMENTAL ENTERPRISES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 131 - Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions |
| RCRA Code: | D001 |
| Meth Code: | H071 - Chemical Reduction With Or Without Precipitation |
| Quantity Tons: | 0.0015 |
| Waste Quantity: | 3 |
| 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: | 20070926 |
| Creation Date: | 3/18/2008 18:30:12 |
| Receipt Date: | 20071009 |
| Manifest ID: | 001100013FLE |
| Trans EPA ID: | SCD987584778 |
| Trans Name: | SUMTER TRANSPORT COMPANY |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | OHD083377010 |
| Trans Name: | ENVIRONMENTAL ENTERPRISES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.002 |
| Waste Quantity: | 4 |
| 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: | 2016 |
| Gen EPA ID: | CAL000323939 |
| | |
| Shipment Date: | 20151117 |
| Creation Date: | 9/29/2016 18:33:11 |
| Receipt Date: | 20151223 |
| Manifest ID: | 008620063FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAR000210617 |
| Trans 2 Name: | 21ST CENTURY ENVIRONMENTAL OF CALIFORNIA |
| TSDF EPA ID: | NVD980895338 |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 181 - Other inorganic solid waste Organics |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.001 |
| Waste Quantity: | 2 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20151117 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 008620062FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAR000210617 |
| Trans 2 Name: | 21ST CENTURY ENVIRONMENTAL OF CALIFORNIA |
| TSDF EPA ID: | CAD980884183 |
| Trans Name: | GENERAL ENVIRONMENTAL MGT LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| 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: | 20151117 |
| Creation Date: | 3/2/2016 22:15:14 |
| Receipt Date: | 20151208 |
| Manifest ID: | 008620062FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAR000210617 |
| Trans 2 Name: | 21ST CENTURY ENVIRONMENTAL OF CALIFORNIA |
| TSDF EPA ID: | CAD980884183 |
| Trans Name: | GENERAL ENVIRONMENTAL MGT LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Quantity Tons: | 0.004 |
| Waste Quantity: | 8 |
| 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: | 20151117 |
| Creation Date: | 3/2/2016 22:15:14 |
| Receipt Date: | 20151208 |
| Manifest ID: | 008620062FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAR000210617 |
| Trans 2 Name: | 21ST CENTURY ENVIRONMENTAL OF CALIFORNIA |
| TSDF EPA ID: | CAD980884183 |
| Trans Name: | GENERAL ENVIRONMENTAL MGT LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.006 |
| Waste Quantity: | 12 |
| 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: | 20151117 |
| Creation Date: | 3/2/2016 22:15:14 |
| Receipt Date: | 20151208 |
| Manifest ID: | 008620062FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAR000210617 |
| Trans 2 Name: | 21ST CENTURY ENVIRONMENTAL OF CALIFORNIA |
| TSDF EPA ID: | CAD980884183 |
| Trans Name: | GENERAL ENVIRONMENTAL MGT LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | P001 |
| 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 |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20151117 |
| Creation Date: | 9/29/2016 18:33:11 |
| Receipt Date: | 20151223 |
| Manifest ID: | 008620063FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAR000210617 |
| Trans 2 Name: | 21ST CENTURY ENVIRONMENTAL OF CALIFORNIA |
| TSDF EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY EMN LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 141 - Off-specification, aged, or surplus inorganics |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0015 |
| Waste Quantity: | 3 |
| 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: | 20151117 |
| Creation Date: | 3/2/2016 22:15:14 |
| Receipt Date: | 20151208 |
| Manifest ID: | 008620062FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAR000210617 |
| Trans 2 Name: | 21ST CENTURY ENVIRONMENTAL OF CALIFORNIA |
| TSDF EPA ID: | CAD980884183 |
| Trans Name: | GENERAL ENVIRONMENTAL MGT LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| 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 |
| | |
| Shipment Date: | 20151117 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 008620062FLE |
| Trans EPA ID: | MNS000110924 |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAR000210617 |
| Trans 2 Name: | 21ST CENTURY ENVIRONMENTAL OF CALIFORNIA |
| TSDF EPA ID: | CAD980884183 |
| Trans Name: | GENERAL ENVIRONMENTAL MGT 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: | 0.079 |
| Waste Quantity: | 158 |
| 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: | 20151117 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 008620062FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAR000210617 |
| Trans 2 Name: | 21ST CENTURY ENVIRONMENTAL OF CALIFORNIA |
| TSDF EPA ID: | CAD980884183 |
| Trans Name: | GENERAL ENVIRONMENTAL MGT 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: | 0.046 |
| Waste Quantity: | 92 |
| 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: | 20151117 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 008620062FLE |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAR000210617 |
| Trans 2 Name: | 21ST CENTURY ENVIRONMENTAL OF CALIFORNIA |
| TSDF EPA ID: | CAD980884183 |
| Trans Name: | GENERAL ENVIRONMENTAL MGT LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |

**WALGREENS #6214 (Continued)** **S113149458**

Waste Code Description: - Not reported
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.025
Waste Quantity: 50
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2010
Gen EPA ID: CAL000323939

Shipment Date: 20101222
Creation Date: 5/27/2011 18:30:22
Receipt Date: 20110112
Manifest ID: 007298238JJK
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: CAD982492399
Trans 2 Name: ALL CHEMICAL DISPOSAL INC
TSDF EPA ID: OHD083377010
Trans Name: ENVIRONMENTAL ENTERPRISES INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 135 - Unspecified aqueous solution
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: 20101222
Creation Date: 5/27/2011 18:30:22
Receipt Date: 20110112
Manifest ID: 007298238JJK
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: CAD982492399
Trans 2 Name: ALL CHEMICAL DISPOSAL INC
TSDF EPA ID: OHD083377010
Trans Name: ENVIRONMENTAL ENTERPRISES INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 214 - Unspecified solvent mixture
RCRA Code: D001
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Quantity Tons: | 0.0085 |
| Waste Quantity: | 17 |
| 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: | 20101222 |
| Creation Date: | 5/27/2011 18:30:22 |
| Receipt Date: | 20110112 |
| Manifest ID: | 007298238JJK |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAD982492399 |
| Trans 2 Name: | ALL CHEMICAL DISPOSAL INC |
| TSDF EPA ID: | OHD083377010 |
| Trans Name: | ENVIRONMENTAL ENTERPRISES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.015 |
| Waste Quantity: | 30 |
| 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: | 20101013 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 007481229JJK |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAD982492399 |
| Trans 2 Name: | ALL CHEMICAL DISPOSAL INC |
| TSDF EPA ID: | OHD083377010 |
| Trans Name: | ENVIRONMENTAL ENTERPRISES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 141 - Off-specification, aged, or surplus inorganics |
| RCRA Code: | D001 |
| Meth Code: | - Not reported |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| 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 |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Shipment Date: | 20101013 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 007481229JJK |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAD982492399 |
| Trans 2 Name: | ALL CHEMICAL DISPOSAL INC |
| TSDF EPA ID: | OHD083377010 |
| Trans Name: | ENVIRONMENTAL ENTERPRISES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| 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: | 20101013 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 007481229JJK |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAD982492399 |
| Trans 2 Name: | ALL CHEMICAL DISPOSAL INC |
| TSDF EPA ID: | OHD083377010 |
| Trans Name: | ENVIRONMENTAL ENTERPRISES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.009 |
| Waste Quantity: | 18 |
| 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: | 20101013 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 007481229JJK |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAD982492399 |
| Trans 2 Name: | ALL CHEMICAL DISPOSAL INC |
| TSDF EPA ID: | OHD083377010 |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Trans Name: | ENVIRONMENTAL ENTERPRISES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| 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: | 20101013 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 007481229JJK |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAD982492399 |
| Trans 2 Name: | ALL CHEMICAL DISPOSAL INC |
| TSDF EPA ID: | OHD083377010 |
| Trans Name: | ENVIRONMENTAL ENTERPRISES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.0045 |
| Waste Quantity: | 9 |
| 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: | 20101013 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 007481229JJK |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAD982492399 |
| Trans 2 Name: | ALL CHEMICAL DISPOSAL INC |
| TSDF EPA ID: | OHD083377010 |
| Trans Name: | ENVIRONMENTAL ENTERPRISES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 232 - Pesticides and other waste associated with pesticide production |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | P |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20101013 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 007481229JJK |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAD982492399 |
| Trans 2 Name: | ALL CHEMICAL DISPOSAL INC |
| TSDF EPA ID: | OHD083377010 |
| Trans Name: | ENVIRONMENTAL ENTERPRISES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 131 - Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions |
| RCRA Code: | D001 |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.002 |
| Waste Quantity: | 4 |
| 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: | WALGREENS #6214 |
| Address: | 210 MOUNT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Site ID: | 84284 |
| CERS ID: | 10447756 |
| CERS Description: | Chemical Storage Facilities |

Violations:

| | |
|---|---|
| Site ID: | 84284 |
| Site Name: | Walgreens #6214 |
| Violation Date: | 07-05-2016 |
| Citation: | 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a) |
| Violation Description: | Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste. |
| Violation Notes: | Generator does not have a designated facility to generator copy of the uniform hazardous waste manifest for a May shipment. Obtain the designated facility to generator copy of the manifest and make available for review. The call to th designated facility was made during the inspection. |
| Violation Division: | Santa Cruz County Environmental Health |

**WALGREENS #6214 (Continued)** **S113149458**

Violation Program: HW
Violation Source: CERS

Site ID: 84284
Site Name: Walgreens #6214
Violation Date: 07-06-2018
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description: Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes: Designated facility to generator copies of manifests #'s 011296144 fle and 010685319fle were not available for review. Make copies of those manifests available for review.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 84284
Site Name: Walgreens #6214
Violation Date: 08-24-2016
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description: Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes: Designated facility to generator copy of the hazardous waste manifest for May 2016 shipment was not available for review. This was noted on the previous inspection. If not already done, obtain a copy of the May 2016 copy of the hazardous waste manifest. Make it available for review.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 84284
Site Name: Walgreens #6214
Violation Date: 07-01-2015
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 07/02/2015.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-01-2015
Violations Found: No

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 07-01-2015 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 07-05-2016 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Inspection authorized by Jay Haskin, store manager. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 07-05-2016 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 07-06-2018 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Inspection authorized by Sandy Pineda, Store Manager. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 07-06-2018 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 07-07-2017 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |

**WALGREENS #6214 (Continued)** **S113149458**

Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-07-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by James Staich, Shift Lead.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-10-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-10-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-12-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-12-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-19-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 07-19-2019 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Inspection authorized by Sandy Pineda, Store Manager |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 08-04-2020 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 08-04-2020 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Inspection authorized by Sandy Pineda, Store Manager. The Operator's signature was not obtained on the inspection report due to COVID-19 constraints. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 08-24-2016 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Inspection authorized by James Staich, shift lead. This is a re-inspection to check compliance with the manifest violation that was noted on the7/5/16 routine inspection. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |

Enforcement Action:

| | |
|---|---|
| Site ID: | 84284 |
| Site Name: | Walgreens #6214 |
| Site Address: | 210 MOUNT HERMON RD |
| Site City: | SCOTTS VALLEY |
| Site Zip: | 95066 |
| Enf Action Date: | 07-01-2015 |
| 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 Cruz County Environmental Health |
| Enf Action Program: | HW |
| Enf Action Source: | CERS |

| | |
|---|---|
| Site ID: | 84284 |
| Site Name: | Walgreens #6214 |
| Site Address: | 210 MOUNT HERMON RD |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Site City: | SCOTTS VALLEY |
| Site Zip: | 95066 |
| Enf Action Date: | 07-05-2016 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Santa Cruz County Environmental Health |
| Enf Action Program: | HW |
| Enf Action Source: | CERS |

| | |
|---|---|
| Site ID: | 84284 |
| Site Name: | Walgreens #6214 |
| Site Address: | 210 MOUNT HERMON RD |
| Site City: | SCOTTS VALLEY |
| Site Zip: | 95066 |
| Enf Action Date: | 07-06-2018 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Santa Cruz County Environmental Health |
| Enf Action Program: | HW |
| Enf Action Source: | CERS |

| | |
|---|---|
| Site ID: | 84284 |
| Site Name: | Walgreens #6214 |
| Site Address: | 210 MOUNT HERMON RD |
| Site City: | SCOTTS VALLEY |
| Site Zip: | 95066 |
| Enf Action Date: | 08-24-2016 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Santa Cruz County Environmental Health |
| Enf Action Program: | HW |
| Enf Action Source: | CERS |

Coordinates:

| | |
|---|---|
| Site ID: | 84284 |
| Facility Name: | Walgreens #6214 |
| Env Int Type Code: | HWG |
| Program ID: | 10447756 |
| Coord Name: | Not reported |
| Ref Point Type Desc: | Center of a facility or station. |
| Latitude: | 37.044930 |
| Longitude: | -122.026590 |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | Verisk 3E, Regulatory Department/Walgreen Co. |
| Entity Title: | Not reported |
| Affiliation Address: | 3207 Grey Hawk Court, Suite 200 |
| Affiliation City: | Carlsbad |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92010 |
| Affiliation Phone: | Not reported |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | Walgreen Co. |
| Entity Title: | Not reported |
| Affiliation Address: | 200 Wilmot Road |
| Affiliation City: | Deerfield |
| Affiliation State: | IL |
| Affiliation Country: | United States |
| Affiliation Zip: | 60015 |
| Affiliation Phone: | (847) 914-2264 |

| | |
|---|---|
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | Verisk 3E, Regulatory/Walgreen Co, 3207 Grey Hawk Court, Suite 200 |
| Affiliation City: | Carlsbad |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92010 |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | Walgreens |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | CUPA District |
| Entity Name: | Santa Cruz County Environmental Health |
| Entity Title: | Not reported |
| Affiliation Address: | 701 Ocean Boulevard, Suite 312 |
| Affiliation City: | Santa Cruz |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95060 |
| Affiliation Phone: | (831) 454-2022 |

| | |
|---|---|
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Crystalyn Dogui-is, on behalf of Walgreen Co. |
| Entity Title: | Regulatory Compliance Specialist, Verisk 3E |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | Crystalyn Dogui-is, On behalf of Walgreen Co. |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| Affiliation Type Desc: | Operator |
| Entity Name: | Walgreen Co. |
| 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: | (847) 914-2264 |

HWTS:

| | |
|---|---|
| Name: | WALGREENS #6214 |
| Address: | 210 MOUNT HERMON RD |
| Address 2: | Not reported |
| City,State,Zip: | SCOTTS VALLEY, CA 950664009 |
| EPA ID: | CAL000323939 |
| Inactive Date: | 06/30/2020 |
| Create Date: | 08/21/2007 |
| Last Act Date: | 04/06/2021 |
| Mailing Name: | Not reported |
| Mailing Address: | 104 WILMOT RD 5TH FLR MS 1450 |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | DEERFIELD, IL 60015 |
| Owner Name: | WALGREEN CO. |
| Owner Address: | 200 WILMOT RD MS 2273 |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | DEERFIELD, IL 600150000 |
| Contact Name: | KARINA ROMERO |
| Contact Address: | 3207 GREY HAWK CT., SUITE 200 |
| Contact Address 2: | Not reported |
| City,State,Zip: | CARLSBAD, CA 92010 |

NAICS:

| | |
|---|---|
| EPA ID: | CAL000323939 |
| Create Date: | 2007-08-21 08:34:23.670 |
| NAICS Code: | 446110 |
| NAICS Description: | Pharmacies and Drug Stores |
| Issued EPA ID Date: | 2007-08-21 08:34:23.67000 |
| Inactive Date: | Not reported |
| Facility Name: | WALGREENS #6214 |
| Facility Address: | 210 MOUNT HERMON RD |
| Facility Address 2: | Not reported |
| Facility City: | SCOTTS VALLEY |
| Facility County: | Not reported |
| Facility State: | CA |
| Facility Zip: | 950664009 |

| | |
|---|---|
| Name: | WALGREENS #6214 |
| Address: | 210 MOUNT HERMON RD |
| Address 2: | Not reported |
| City,State,Zip: | SCOTTS VALLEY, CA 950664009 |
| EPA ID: | CAR000320739 |

**WALGREENS #6214 (Continued)** **S113149458**

| | |
|---|---|
| Inactive Date: | Not reported |
| Create Date: | 03/01/2021 |
| Last Act Date: | 03/01/2021 |
| Mailing Name: | Not reported |
| Mailing Address: | 104 WILMOT RD 5TH FL MS1434 |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | DEERFIELD, IL 60015 |
| Owner Name: | WALTRUST PROPERTIES INC |
| Owner Address: | 104 WILMOT RD |
| Owner Address 2: | TAX DEPT |
| Owner City,State,Zip: | DEERFIELD, IL 60015 |
| Contact Name: | AMBER DURKIN |
| Contact Address: | 104 WILMOT RD 5TH FL MS1434 |
| Contact Address 2: | Not reported |
| City,State,Zip: | DEERFIELD, IL 60015 |

NAICS:

| | |
|---|---|
| EPA ID: | CAR000320739 |
| Create Date: | 2021-03-01 09:35:33.610 |
| NAICS Code: | 446110 |
| NAICS Description: | Pharmacies and Drug Stores |
| Issued EPA ID Date: | 2021-03-01 09:35:33.61000 |
| Inactive Date: | Not reported |
| Facility Name: | WALGREENS #6214 |
| Facility Address: | 210 MOUNT HERMON RD |
| Facility Address 2: | Not reported |
| Facility City: | SCOTTS VALLEY |
| Facility County: | Not reported |
| Facility State: | CA |
| Facility Zip: | 950664009 |

---

**74** **MIKE & FUZZY BARAJAS** **RCRA NonGen / NLR** **1024771411**
**SSE** **115 WHISPERING PINES COURT** **CAC002991322**
**1/8-1/4** **SCOTTS VALLEY, CA 95066**
**0.190 mi.**
**1003 ft.**

**Relative:**
**Higher**

**Actual:**
**587 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 2018-11-30 00:00:00.0 |
| Handler Name: | MIKE & FUZZY BARAJAS | |
| Handler Address: | | 115 WHISPERING PINES COURT |
| Handler City,State,Zip: | | SCOTTS VALLEY, CA 95066 |
| EPA ID: | | CAC002991322 |
| Contact Name: | | MIKE & FUZZY BARAJAS |
| Contact Address: | | 115 WHISPERING PINES COURT |
| Contact City,State,Zip: | | SCOTTS VALLEY, CA 95066 |
| Contact Telephone: | | 831-234-8428 |
| 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: | | Handler Activities |

**MIKE & FUZZY BARAJAS (Continued)** **1024771411**

| | |
|---|---|
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 115 WHISPERING PINES COURT |
| Mailing City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Owner Name: | MIKE & FUZZY BARAJAS |
| Owner Type: | Other |
| Operator Name: | MIKE & FUZZY BARAJAS |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2018-12-20 13:51:48.0 |
| Recognized Trader-Importer: | No |

**MIKE & FUZZY BARAJAS (Continued)** **1024771411**

| | |
|---|---|
| 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: | MIKE & FUZZY BARAJAS |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 115 WHISPERING PINES COURT |
| Owner/Operator City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Owner/Operator Telephone: | 831-234-8428 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | MIKE & FUZZY BARAJAS |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 115 WHISPERING PINES COURT |
| Owner/Operator City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Owner/Operator Telephone: | 831-234-8428 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 2018-11-30 00:00:00.0 |
| Handler Name: MIKE & FUZZY BARAJAS | |
| 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 |

**MIKE & FUZZY BARAJAS (Continued)** **1024771411**

Evaluation Action Summary:
Evaluations: No Evaluations Found

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**H75** **GENUINE PARTS CO DBA NAPA AUTO PARTS** **RCRA NonGen / NLR** **1024856418**
**East** **214 MOUNT HERMAN RD UNIT A** **CAL000420374**
**1/8-1/4** **SCOTTS VALLEY, CA 95066**
**0.190 mi.**
**1004 ft.** **Site 13 of 15 in cluster H**

**Relative:**
**Lower**

**Actual:**
**519 ft.**

RCRA NonGen / NLR:

| | |
|---|---|
| Date Form Received by Agency: | 2016-09-23 00:00:00.0 |
| Handler Name: | GENUINE PARTS CO DBA NAPA AUTO PARTS |
| Handler Address: | 214 MOUNT HERMAN RD UNIT A |
| Handler City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| EPA ID: | CAL000420374 |
| Contact Name: | OSHAY BARNER |
| Contact Address: | 7150 S FULTON STREET #300 |
| Contact City,State,Zip: | CENTENNIAL, CO 80112 |
| Contact Telephone: | 303-623-7373 |
| Contact Fax: | 303-623-5143 |
| Contact Email: | OSHAY_BARNER@GENPT.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: | 7150 S FULTON STREET #300 |
| Mailing City,State,Zip: | CENTENNIAL, CO 80110-0000 |
| Owner Name: | GENUINE PARTS COMPANY |
| Owner Type: | Other |
| Operator Name: | OSHAY BARNER |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |

**GENUINE PARTS CO DBA NAPA AUTO PARTS (Continued)** **1024856418**

| | |
|---|---|
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2018-09-07 19:35:03.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | GENUINE PARTS COMPANY |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2999 WILDWOOD PARKWAY |
| Owner/Operator City,State,Zip: | ATLANTA, GA 30339-0000 |
| Owner/Operator Telephone: | 770-953-1700 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | OSHAY BARNER |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 7150 S FULTON STREET #300 |

**GENUINE PARTS CO DBA NAPA AUTO PARTS (Continued)** **1024856418**

Owner/Operator City,State,Zip: CENTENNIAL, CO 80112
Owner/Operator Telephone: 303-623-7373
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2016-09-23 00:00:00.0
Handler Name: GENUINE PARTS CO DBA NAPA AUTO PARTS
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: 44131
NAICS Description: AUTOMOTIVE PARTS AND ACCESSORIES STORES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

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**H76** **SCOTTS VALLEY WATER DIST-WELL 10** **CUPA Listings** **S110743172**
**East** **229 MT HERMON RD** **CERS** **N/A**
**1/8-1/4** **SCOTTS VALLEY, CA 95067**
**0.195 mi.**
**1030 ft.** **Site 14 of 15 in cluster H**

**Relative:**
**Lower**

**Actual:**
**517 ft.**

CUPA SANTA CRUZ:
Name: SCOTTS VALLEY WATER DIST-WELL 10
Address: 229 MT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95067
Facility Id: FA0002938
Cross Street: LOCKWOOD DR
Description: HMMP STANDARD FORM FILING FEE

Name: SCOTTS VALLEY WATER DIST-WELL 10
Address: 229 MT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95067
Facility Id: FA0002938
Cross Street: LOCKWOOD DR
Description: HMMP STANDARD FORM QR 2

CERS:
Name: SCOTTS VALLEY WATER DIST-WELL 10
Address: 229 MT HERMON RD

**SCOTTS VALLEY WATER DIST-WELL 10 (Continued)** **S110743172**

City,State,Zip: SCOTTS VALLEY, CA 95067
Site ID: 65912
CERS ID: 10192729
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 65912
Site Name: SCOTTS VALLEY WATER DIST-WELL 10
Violation Date: 01-27-2016
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete, accurate, and up-to-date.
Violation Notes: Returned to compliance on 01/29/2016.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 65912
Site Name: SCOTTS VALLEY WATER DIST-WELL 10
Violation Date: 01-27-2016
Citation: 19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes: Returned to compliance on 01/29/2016.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 65912
Site Name: SCOTTS VALLEY WATER DIST-WELL 10
Violation Date: 01-15-2014
Citation: 19 CCR 4 2729.5 - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.5
Violation Description: Failure to submit inventory reports (Activities, Owner/Operator, Hazardous Materials Descriptions and Map pages, if required. Documentation must be resubmitted (for facilities which exceed EPCRA thresholds) or re-certified (for facilities which do not exceed EPCRA thresholds) by March 1.
Violation Notes: Returned to compliance on 02/28/2014.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-15-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-16-2015

**SCOTTS VALLEY WATER DIST-WELL 10 (Continued)** **S110743172**

Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-23-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Mike Legg, Water Operations Supervisor.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-27-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-30-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Mike Legg, Water Operations Supervisor.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-30-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Mike Legg, WEater Operations Supervisor.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-31-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Mike Legg, Water Operations Supervisor.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 65912
Site Name: SCOTTS VALLEY WATER DIST-WELL 10
Site Address: 229 MT HERMON RD
Site City: SCOTTS VALLEY

**SCOTTS VALLEY WATER DIST-WELL 10 (Continued)** **S110743172**

Site Zip: 95067
Enf Action Date: 01-15-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 65912
Site Name: SCOTTS VALLEY WATER DIST-WELL 10
Site Address: 229 MT HERMON RD
Site City: SCOTTS VALLEY
Site Zip: 95067
Enf Action Date: 01-27-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Affiliation:
Affiliation Type Desc: Operator
Entity Name: Mike Legg
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: (831) 600-1914

Affiliation Type Desc: CUPA District
Entity Name: Santa Cruz County Environmental Health
Entity Title: Not reported
Affiliation Address: 701 Ocean Boulevard, Suite 312
Affiliation City: Santa Cruz
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95060
Affiliation Phone: (831) 454-2022

Affiliation Type Desc: Document Preparer
Entity Name: Eileen Eisner-Streller
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: Mike Legg
Entity Title: Not reported
Affiliation Address: 2 Civic Center Drive

**SCOTTS VALLEY WATER DIST-WELL 10 (Continued)** **S110743172**

| | |
|---|---|
| Affiliation City: | SCOTTS VALLEY |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95066 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | 2 Civic Center Drive |
| Affiliation City: | SCOTTS VALLEY |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95066 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | SCOTTS VALLEY WATER DISTRICT |
| Entity Title: | Not reported |
| Affiliation Address: | 2 Civic Center Drive |
| Affiliation City: | SCOTTS VALLEY |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 95066 |
| Affiliation Phone: | (831) 438-2363 |
| | |
| Affiliation Type Desc: | Property Owner |
| Entity Name: | Scotts Valley Water District |
| Entity Title: | Not reported |
| Affiliation Address: | 2 Civic Center Drive |
| Affiliation City: | Scotts Valley |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 95066 |
| Affiliation Phone: | (831) 438-2363 |
| | |
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | David McNair |
| Entity Title: | OPERATIONS MANAGER |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | SCOTTS 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: | Not reported |

**H77** **C C COLOR LAB** **RCRA-SQG** **1000686127**
**East** **218 MT HERMON RD UNIT D** **HIST UST** **CAD983633538**
**1/8-1/4** **SCOTTS VALLEY, CA 95066** **FINDS**
**0.199 mi.** **ECHO**
**1050 ft.** **Site 15 of 15 in cluster H** **HAZNET**
**HWTS**

**Relative:**
**Lower**

**Actual:**
**518 ft.**

RCRA-SQG:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 1992-03-24 00:00:00.0 |
| Handler Name: | C C COLOR LAB | |
| Handler Address: | | 218 MT HERMON RD UNIT D |
| Handler City,State,Zip: | | SCOTTS VALLEY, CA 95066 |
| EPA ID: | | CAD983633538 |
| Contact Name: | | COLEEN CLARK |
| Contact Address: | | 218 MT HERMON RD UNIT D |
| Contact City,State,Zip: | | SCOTTS VALLEY, CA 95066 |
| Contact Telephone: | | 408-438-4610 |
| 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: | | 218 MT HERNON RD UNIT D |
| Mailing City,State,Zip: | | SCOTTS VALLEY, CA 95066 |
| Owner Name: | | CRAIG W CLARK AND COLEEN CLARK |
| Owner Type: | | Private |
| Operator Name: | | Not reported |
| Operator Type: | | Not reported |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |
| Underground Injection Control: | | No |
| Off-Site Waste Receipt: | | No |
| Universal Waste Indicator: | | No |
| Universal Waste Destination Facility: | | No |
| Federal Universal Waste: | | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Handler: | | --- |
| Federal Facility Indicator: | | Not reported |
| Hazardous Secondary Material Indicator: | | NN |
| Sub-Part K Indicator: | | Not reported |
| Commercial TSD Indicator: | | No |
| Treatment Storage and Disposal Type: | | Not reported |
| 2018 GPRA Permit Baseline: | | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | | Not on the Baseline |

**C C COLOR LAB (Continued)** **1000686127**

| | |
|---|---|
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2002-06-27 03:36:00.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | Not reported |
| Manifest Broker: | Not reported |
| Sub-Part P Indicator: | Not reported |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | CRAIG W CLARK AND COLEEN CLARK |
| Legal Status: | Private |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 715 SOQUEL AVE |
| Owner/Operator City,State,Zip: | SANTA CRUZ, CA 95060 |
| Owner/Operator Telephone: | 408-425-1100 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 1992-03-24 00:00:00.0 |
| Handler Name: C C COLOR LAB | |
| 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 |

**C C COLOR LAB (Continued)** **1000686127**

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

HIST UST:
Name: COAST TO COAST HARCWARE
Address: 218 MT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
File Number: 00020B88
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00020B88.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:

FINDS:
Registry ID: 110002874444

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**C C COLOR LAB (Continued)** **1000686127**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

| | |
|---|---|
| Envid: | 1000686127 |
| Registry ID: | 110002874444 |
| DFR URL: | http://echo.epa.gov/detailed-facility-report?fid=110002874444 |
| Name: | C C COLOR LAB |
| Address: | 218 MT HERMON RD UNIT D |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |

HAZNET:

| | |
|---|---|
| Name: | C C COLOR LAB |
| Address: | 218 MT HERMON RD UNIT D |
| Address 2: | Not reported |
| City,State,Zip: | SCOTTS VALLEY, CA 950660000 |
| Contact: | -- |
| Telephone: | -- |
| Mailing Name: | Not reported |
| Mailing Address: | 218 MOUNT HERMON RD STE D |
| | |
| Year: | 1994 |
| Gepaid: | CAD983633538 |
| TSD EPA ID: | CAD003963592 |
| CA Waste Code: | 171 - Metal sludge (Alkaline solution (pH >= 12.5) with metals) |
| Disposal Method: | R01 - Recycler |
| Tons: | 0.12 |
| | |
| Year: | 1994 |
| Gepaid: | CAD983633538 |
| TSD EPA ID: | CAD003963592 |
| CA Waste Code: | 171 - Metal sludge (Alkaline solution (pH >= 12.5) with metals) |
| Disposal Method: | - |
| Tons: | 0.1 |
| | |
| Year: | 1994 |
| Gepaid: | CAD983633538 |
| TSD EPA ID: | CAD003963592 |
| CA Waste Code: | - |
| Disposal Method: | - |
| Tons: | 0 |

Additional Info:

| | |
|---|---|
| Year: | 1994 |
| Gen EPA ID: | CAD983633538 |
| | |
| Shipment Date: | 19941128 |
| Creation Date: | 10/19/1995 0:00:00 |
| Receipt Date: | Not reported |
| Manifest ID: | 93735764 |
| Trans EPA ID: | CAD003963952 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD003963592 |

**C C COLOR LAB (Continued)** **1000686127**

| | |
|---|---|
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0 |
| Waste Quantity: | 0 |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19941128 |
| Creation Date: | 10/19/1995 0:00:00 |
| Receipt Date: | Not reported |
| Manifest ID: | 93735764 |
| Trans EPA ID: | CAD003963952 |
| 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: | 171 - Metal sludge (see 121 |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.07 |
| Waste Quantity: | 140 |
| 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: | 19941128 |
| Creation Date: | 10/19/1995 0:00:00 |
| Receipt Date: | Not reported |
| Manifest ID: | 93735764 |
| Trans EPA ID: | CAD003963952 |
| 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: | 171 - Metal sludge (see 121 |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.03 |
| Waste Quantity: | 60 |
| Quantity Unit: | P |

**C C COLOR LAB (Continued)** **1000686127**

| | |
|---|---|
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19940926 |
| Creation Date: | 3/26/1996 0:00:00 |
| Receipt Date: | 19940926 |
| Manifest ID: | 93732205 |
| 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: | 171 - Metal sludge (see 121 |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| 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 |

HWTS:

| | |
|---|---|
| Name: | C C COLOR LAB |
| Address: | 218 MT HERMON RD UNIT D |
| Address 2: | Not reported |
| City,State,Zip: | SCOTTS VALLEY, CA 950660000 |
| EPA ID: | CAD983633538 |
| Inactive Date: | 06/30/1998 |
| Create Date: | 03/24/1992 |
| Last Act Date: | 08/10/2004 |
| Mailing Name: | Not reported |
| Mailing Address: | 218 MOUNT HERMON RD STE D |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | SCOTTS VALLEY, CA 950660000 |
| Owner Name: | CRAIG W CLARK AND COLEEN CLARK |
| Owner Address: | 715 SOQUEL AVE |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | SANTA CRUZ, CA -- |
| Contact Name: | -- |
| Contact Address: | INACT PER 98 VQ FINAL NOTICE - HN |
| Contact Address 2: | Not reported |
| City,State,Zip: | --, 99 -- |

**I78** **DIGNITY HEALTH MEDICAL GROUP** **RCRA NonGen / NLR** **1026055104**
**East** **223A MT HERMAN ROAD** **CAL000451284**
**1/8-1/4** **SCOTTS VALLEY, CA 95066**
**0.209 mi.**
**1105 ft.** **Site 1 of 3 in cluster I**

**Relative:** **Lower**
**Actual:** **517 ft.**

RCRA NonGen / NLR:

| | |
|---|---|
| Date Form Received by Agency: | 2019-12-12 00:00:00.0 |
| Handler Name: | DIGNITY HEALTH MEDICAL GROUP |
| Handler Address: | 223A MT HERMAN ROAD |
| Handler City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| EPA ID: | CAL000451284 |
| Contact Name: | KIM SANDOVAL |
| Contact Address: | 3400 DATA DRIVE |
| Contact City,State,Zip: | RANCHO CORDOVA, CA 95670 |
| Contact Telephone: | 916-379-2952 |
| Contact Fax: | 916-858-7127 |
| Contact Email: | KIMBERLY.SANDOVAL@DIGNITYHEALTH.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: | 3400 DATA DRIVE |
| Mailing City,State,Zip: | RANCHO CORDOVA, CA 95670 |
| Owner Name: | DIGNITY HEALTH MEDICAL FOUNDATION |
| Owner Type: | Other |
| Operator Name: | KIM SANDOVAL |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |

**DIGNITY HEALTH MEDICAL GROUP (Continued)** **1026055104**

| | |
|---|---|
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2020-02-10 17:53:59.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | DIGNITY HEALTH MEDICAL FOUNDATION |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 3400 DATA DRIVE |
| Owner/Operator City,State,Zip: | RANCHO CORDOVA, CA 95670 |
| Owner/Operator Telephone: | 916-379-2952 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | KIM SANDOVAL |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 3400 DATA DRIVE |
| Owner/Operator City,State,Zip: | RANCHO CORDOVA, CA 95670 |
| Owner/Operator Telephone: | 916-379-2952 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

**DIGNITY HEALTH MEDICAL GROUP (Continued)** **1026055104**

Historic Generators:
Receive Date: 2019-12-12 00:00:00.0
Handler Name: DIGNITY HEALTH MEDICAL GROUP
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: 621493
NAICS Description: FREESTANDING AMBULATORY SURGICAL AND EMERGENCY CENTERS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

---

**79**
**NW**
**1/8-1/4**
**0.233 mi.**
**1231 ft.**

**KAISER PIT** **ENVIROSTOR** **S101482435**
**MOUNT HERMON ROAD** **N/A**
**SCOTTS VALLEY, CA 95066**

**Relative:**
**Higher**

**Actual:**
**549 ft.**

ENVIROSTOR:
Name: KAISER PIT
Address: MOUNT HERMON ROAD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility ID: 44490002
Status: No Further Action
Status Date: 11/18/2002
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 0.1
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Assembly: 29
Senate: 17
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.04799
Longitude: -122.0391

**KAISER PIT (Continued)** **S101482435**

APN: NONE SPECIFIED
Past Use: WASTE WATER PONDS
Potential COC: * Sludge - Sewage * UNSPECIFIED ORGANIC LIQUID MIXTURE Cyanide (free
Confirmed COC: NONE SPECIFIED
Potential Description: AQUI, SOIL
Alias Name: KAISER SAND AND GRAVEL
Alias Type: Alternate Name
Alias Name: SCOTTS VALLEY WASTE TREATMENT PLANT
Alias Type: Alternate Name
Alias Name: CAD980893416
Alias Type: EPA Identification Number
Alias Name: 44490002
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 12/07/1989
Comments: Completed Site Screening. The CERCLA SI was followed by a SI Reassessment in 1989. Both reports concluded that although there had never been observed releases of hazardous substances from the Site, it could not be discounted as a source of contamination to the regional aquifer. However, the Site is over a mile away from the groundwater contamination plumes discovered in Scotts Valley. According to the CERCLA SI prepared for the Site, groundwater from the Site appeared to flow towards Bean Creek to the northeast, and not towards the contamination plumes. In 1987, soil and surface water samples were collected from the pit prior to the return of full ownership of Kaiser Pit from the City of Scotts Valley to Kaiser Sand and Gravel. Analysis of these samples for VOCs, metals, general minerals, and herbicides and pesticides did not reveal any significant contamination of the Site. Based upon this information, the Site was removed from the Cortese List by the Department of Toxic Substances Control in 1988 (DTSC, formerly the Department of Health Services, Toxic Substances Control Division).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 04/15/1987
Comments: Completed Site Screening. In 1985, a CERCLA Site Inspection (SI) was performed for the Site by Ecology and Environment, Incorporated (E&E) on behalf of the United States Environmental Protection Agency (US EPA). The CERCLA SI of Kaiser Pit was part of a US EPA investigation to identify the parties responsible for the contamination of the Santa Margarita aquifer with VOCs. The aquifer is a federally designated Sole Source Aquifer for the Scotts Valley region. Contaminants found in the Santa Margarita aquifer included trichloroethylene (TCE), freon, benzene, toluene, perchloroethylene, and chlorobenzene.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 11/07/2003
Comments: Based on past sampling performed at the site, DTSC recommended no further action in the site screening.

**KAISER PIT (Continued)** **S101482435**

| | |
|---|---|
| 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 |

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**I80** **BONDS CAMP EVERS SERVICE** **EDR Hist Auto** **1022049962**
**East** **200 MT HERMAN RD** **N/A**
**1/8-1/4** **SCOTTS VALLEY, CA 95066**
**0.238 mi.**
**1256 ft.** **Site 2 of 3 in cluster I**

**Relative:** EDR Hist Auto
**Higher**

**Actual:** **522 ft.**

| Year: | Name: | Type: |
|---|---|---|
| 1977 | BONDS CAMP EVERS SERVICE | Gasoline Service Stations |
| 1978 | BONDS CAMP EVERS SERVICE | Gasoline Service Stations |
| 1979 | BONDS CAMP EVERS SERVICE | Gasoline Service Stations |
| 1980 | BONDS CAMP EVERS SERVICE | Gasoline Service Stations |
| 1982 | BONDS CAMP EVERS SERVICE | Gasoline Service Stations |
| 1983 | BONDS CAMP EVERS SERVICE | Gasoline Service Stations |
| 1985 | BONDS CAMP EVERS SERVICE | Gasoline Service Stations |
| 1986 | BONDS CAMP EVERS SERVICE | Gasoline Service Stations |
| 1987 | BONDS CAMP EVERS SERVICE | Gasoline Service Stations |

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**I81** **SS#9-1337** **LUST** **S105026574**
**East** **200 MOUNT HERMON RD** **Cortese** **N/A**
**1/8-1/4** **SCOTTS VALLEY, CA 95066** **ENF**
**0.238 mi.** **HIST CORTESE**
**1256 ft.** **Site 3 of 3 in cluster I** **CERS**

**Relative:** LUST:
**Higher**

**Actual:** **522 ft.**

| | |
|---|---|
| Name: | CHEVRON STATION 9-1337 |
| Address: | 200 MOUNT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Lead Agency: | CENTRAL COAST RWQCB (REGION 3) |
| Case Type: | LUST Cleanup Site |
| Geo Track: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608700065 |
| Global Id: | T0608700065 |
| Latitude: | 37.0437157265503 |
| Longitude: | -122.025162577629 |
| Status: | Completed - Case Closed |
| Status Date: | 11/20/2017 |
| Case Worker: | WNL |
| RB Case Number: | 2421 |
| Local Agency: | SANTA CRUZ COUNTY |
| File Location: | Not reported |
| Local Case Number: | Not reported |
| Potential Media Affect: | Aquifer used for drinking water supply |
| Potential Contaminants of Concern: | Gasoline |
| Site History: | Not reported |

**SS#9-1337 (Continued)** **S105026574**

LUST:
Global Id: T0608700065
Contact Type: Local Agency Caseworker
Contact Name: SCOTT CARSON
Organization Name: SANTA CRUZ COUNTY
Address: 701 Ocean Street, Room 312
City: SANTA CRUZ
Email: scott.carson@co.santa-cruz.ca.us
Phone Number: Not reported

Global Id: T0608700065
Contact Type: Regional Board Caseworker
Contact Name: WEI LIU
Organization Name: CENTRAL COAST RWQCB (REGION 3)
Address: 895 AEROVISTA PLACE, SUITE 101
City: SAN LUIS OBISPO
Email: wei.liu@waterboards.ca.gov
Phone Number: 8055493147

LUST:
Global Id: T0608700065
Action Type: RESPONSE
Date: 12/30/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0608700065
Action Type: ENFORCEMENT
Date: 12/07/1994
Action: Staff Letter

Global Id: T0608700065
Action Type: ENFORCEMENT
Date: 05/17/2005
Action: Staff Letter

Global Id: T0608700065
Action Type: ENFORCEMENT
Date: 03/04/2015
Action: Notification - Fee Title Owners Notice

Global Id: T0608700065
Action Type: RESPONSE
Date: 01/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 10/20/2005
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 10/20/2007
Action: Monitoring Report - Quarterly

Global Id: T0608700065

**SS#9-1337 (Continued)** **S105026574**

Action Type: RESPONSE
Date: 01/20/2008
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 10/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 04/20/2004
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 07/20/2005
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 01/20/2006
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 04/20/2006
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 07/20/2006
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 04/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 07/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 06/30/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0608700065
Action Type: RESPONSE
Date: 12/30/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0608700065
Action Type: RESPONSE
Date: 11/30/2017

**SS#9-1337 (Continued)** **S105026574**

Action: Well Destruction Report

Global Id: T0608700065
Action Type: RESPONSE
Date: 07/20/2003
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 04/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 07/30/2004
Action: Remedial Progress Report

Global Id: T0608700065
Action Type: RESPONSE
Date: 04/20/2007
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 07/20/2007
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 07/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 10/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 01/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 02/16/2007
Action: NPDES / WDR Reports

Global Id: T0608700065
Action Type: ENFORCEMENT
Date: 11/07/2002
Action: Waste Discharge Requirements

Global Id: T0608700065
Action Type: RESPONSE
Date: 07/20/2004
Action: Monitoring Report - Quarterly

**SS#9-1337 (Continued)** **S105026574**

Global Id: T0608700065
Action Type: RESPONSE
Date: 01/30/2007
Action: NPDES / WDR Reports

Global Id: T0608700065
Action Type: RESPONSE
Date: 10/20/2006
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 01/20/2007
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 10/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 06/30/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0608700065
Action Type: ENFORCEMENT
Date: 02/22/2017
Action: Staff Letter

Global Id: T0608700065
Action Type: RESPONSE
Date: 07/30/2007
Action: NPDES / WDR Reports

Global Id: T0608700065
Action Type: RESPONSE
Date: 04/30/2007
Action: NPDES / WDR Reports

Global Id: T0608700065
Action Type: RESPONSE
Date: 12/30/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0608700065
Action Type: RESPONSE
Date: 03/31/2017
Action: Well Destruction Report

Global Id: T0608700065
Action Type: RESPONSE
Date: 01/30/2015
Action: Request for Closure - Regulator Responded

Global Id: T0608700065
Action Type: ENFORCEMENT

**SS#9-1337 (Continued)** **S105026574**

Date: 11/20/2017
Action: Closure/No Further Action Letter

Global Id: T0608700065
Action Type: RESPONSE
Date: 01/20/2004
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 04/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 06/30/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0608700065
Action Type: RESPONSE
Date: 10/15/2014
Action: Request for Closure - Regulator Responded

Global Id: T0608700065
Action Type: RESPONSE
Date: 11/20/2015
Action: Monitoring Report - Other - Regulator Responded

Global Id: T0608700065
Action Type: RESPONSE
Date: 03/09/2016
Action: Well Destruction Workplan - Regulator Responded

Global Id: T0608700065
Action Type: RESPONSE
Date: 07/14/2015
Action: Request for Closure - Regulator Responded

Global Id: T0608700065
Action Type: Other
Date: 12/16/1993
Action: Leak Discovery

Global Id: T0608700065
Action Type: Other
Date: 12/20/1993
Action: Leak Reported

Global Id: T0608700065
Action Type: RESPONSE
Date: 10/30/2007
Action: NPDES / WDR Reports

Global Id: T0608700065
Action Type: RESPONSE
Date: 05/03/2015
Action: Other Report / Document

**SS#9-1337 (Continued)** **S105026574**

Global Id: T0608700065
Action Type: RESPONSE
Date: 01/31/2017
Action: Well Destruction Workplan - Regulator Responded

Global Id: T0608700065
Action Type: RESPONSE
Date: 07/21/2016
Action: Well Destruction Workplan - Regulator Responded

Global Id: T0608700065
Action Type: ENFORCEMENT
Date: 10/29/2013
Action: Staff Letter

Global Id: T0608700065
Action Type: ENFORCEMENT
Date: 10/31/2013
Action: Staff Letter

Global Id: T0608700065
Action Type: RESPONSE
Date: 04/30/2008
Action: NPDES / WDR Reports

Global Id: T0608700065
Action Type: RESPONSE
Date: 06/30/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0608700065
Action Type: RESPONSE
Date: 01/20/2009
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 10/20/2008
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 07/20/2009
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 12/30/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0608700065
Action Type: RESPONSE
Date: 04/20/2009
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE

**SS#9-1337 (Continued)** **S105026574**

Date: 10/20/2009
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 10/20/2002
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 07/20/2002
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 01/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 10/20/2003
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 04/20/2003
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 01/20/2003
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 12/30/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0608700065
Action Type: RESPONSE
Date: 07/08/2016
Action: Well Destruction Workplan - Regulator Responded

Global Id: T0608700065
Action Type: ENFORCEMENT
Date: 02/23/2009
Action: File review

Global Id: T0608700065
Action Type: ENFORCEMENT
Date: 01/02/2009
Action: File review

Global Id: T0608700065
Action Type: ENFORCEMENT
Date: 05/07/2009
Action: File review

**SS#9-1337 (Continued)** **S105026574**

Global Id: T0608700065
Action Type: RESPONSE
Date: 08/01/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0608700065
Action Type: RESPONSE
Date: 04/20/2008
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: RESPONSE
Date: 07/20/2008
Action: Monitoring Report - Quarterly

Global Id: T0608700065
Action Type: ENFORCEMENT
Date: 05/14/2009
Action: 13267 Requirement

Global Id: T0608700065
Action Type: ENFORCEMENT
Date: 07/20/2009
Action: 13267 Requirement

LUST:
Global Id: T0608700065
Status: Open - Case Begin Date
Status Date: 11/07/1993

Global Id: T0608700065
Status: Open - Site Assessment
Status Date: 11/07/1993

Global Id: T0608700065
Status: Open - Site Assessment
Status Date: 12/20/1993

Global Id: T0608700065
Status: Open - Verification Monitoring
Status Date: 06/03/1996

Global Id: T0608700065
Status: Open - Remediation
Status Date: 08/02/2004

Global Id: T0608700065
Status: Open - Verification Monitoring
Status Date: 06/30/2010

Global Id: T0608700065
Status: Open - Eligible for Closure
Status Date: 05/19/2014

Global Id: T0608700065
Status: Completed - Case Closed
Status Date: 11/20/2017

**SS#9-1337 (Continued)** **S105026574**

LUST REG 3:

| | |
|---|---|
| Region: | 3 |
| Regional Board: | Central Coast Region |
| Facility County: | Santa Cruz |
| Global ID: | T0608700065 |
| Status: | Post remedial action monitoring |
| Case Number: | 2421 |
| Local Case Num: | Not reported |
| Case Type: | A |
| Substance: | Gasoline |
| Quantity: | Not reported |
| Abatement Method: | U |
| Leak Source: | Tank |
| Leak Cause: | UNK |
| How Stopped: | Not reported |
| How Discovered: | OM |
| Release Date: | 12/20/1993 |
| Discovered Date: | 12/16/93 |
| Enter Date: | 02/10/1994 |
| Stop Date: | Not reported |
| Review Date: | 08/07/2002 |
| Enforce Date: | Not reported |
| Close Date: | Not reported |
| Enforcement Type: | LET |
| Responsible Party: | THOMAS BAUHS |
| RP Address: | 2410 CAMINO RAMON, BOX 5004 |
| Contact: | Not reported |
| Cross Street: | SCOTTS VALLEY RD |
| Local Agency: | 44000 |
| Lead Agency: | Regional Board |
| Staff Initials: | WNL |
| Confirm Leak: | Not reported |
| Workplan: | 11/7/93 |
| Prelim Assess: | 12/20/93 |
| Pollution Char: | / / |
| Remedial Plan: | Not reported |
| Remedial Action: | Not reported |
| Monitoring: | 06/03/1996 |
| Pilot Program: | UST |
| Interim Action: | 0 |
| Funding: | Not reported |
| MTBE Class: | A |
| Max MTBE Grnd Wtr: | 510 |
| Max MTBE Soil: | Not reported |
| Max MTBE Data: | 10/02/2002 |
| MTBE Tested: | YES |
| Lat/Long: | 37.0437726 / -122.0254205 |
| Soil Qualifier: | Not reported |
| Grnd Wtr Qualifier: | = |
| Mtbe Concentratn: | 16 |
| Mtbe Fuel: | 1 |
| Org Name: | Not reported |
| Basin Plan: | 4.12 |
| Beneficial: | MUN |
| Priority: | 1A3 |
| UST Cleanup Fund ID: | Not reported |
| Suspended: | Not reported |

**SS#9-1337 (Continued)** **S105026574**

Operator: Not reported
Water System: DAWAIN TERRELL
Well Name: SAN LORENZO VALLEY WD - TREATED GW
Distance From Well: 0
Assigned Name: 4410004-003
Summary: EIGHT WELLS INSTALLED; DUAL VACCUUM EXTRACTION PERFORMED, AND CURRENTLY SHUT-DOWN. COMMINGLED PLUMES APPEAR STABLE. QUARTERLY MONITORING ONGOING.

CORTESE:

| | |
|---|---|
| Name: | CHEVRON STATION 9-1337 |
| Address: | 200 MOUNT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Region: | CORTESE |
| Envirostor Id: | Not reported |
| Global ID: | T0608700065 |
| 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 |

ENF:

| | |
|---|---|
| Name: | SS#9-1337 |
| Address: | 200 MOUNT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Region: | 3 |
| Facility Id: | 258332 |
| Agency Name: | Chevron USA Inc San Ramon |
| Place Type: | Facility |
| Place Subtype: | Not reported |
| Facility Type: | All other facilities |
| Agency Type: | Privately-Owned Business |
| # Of Agencies: | 1 |
| Place Latitude: | 37.045208 |
| Place Longitude: | -122.027007 |
| SIC Code 1: | 5541 |
| SIC Desc 1: | Gasoline Service Stations |
| 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 |

**SS#9-1337 (Continued)** **S105026574**

| | |
|---|---|
| NAICS Desc 1: | Not reported |
| NAICS Code 2: | Not reported |
| NAICS Desc 2: | Not reported |
| NAICS Code 3: | Not reported |
| NAICS Desc 3: | Not reported |
| # Of Places: | 1 |
| Source Of Facility: | Reg Meas |
| Design Flow: | Not reported |
| Threat To Water Quality: | Not reported |
| Complexity: | Not reported |
| Pretreatment: | Not reported |
| Facility Waste Type: | Not reported |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | UNREGS |
| Program Category1: | UNREGS |
| Program Category2: | UNREGS |
| # Of Programs: | 1 |
| WDID: | 3 440001N08 |
| Reg Measure Id: | 164230 |
| Reg Measure Type: | Unregulated |
| Region: | 3 |
| Order #: | Not reported |
| Npdes# CA#: | Not reported |
| Major-Minor: | Not reported |
| Npdes Type: | Not reported |
| Reclamation: | Not reported |
| Dredge Fill Fee: | Not reported |
| 301H: | Not reported |
| Application Fee Amt Received: | Not reported |
| Status: | Never Active |
| Status Date: | 02/21/2013 |
| Effective Date: | Not reported |
| Expiration/Review Date: | Not reported |
| Termination Date: | Not reported |
| WDR Review - Amend: | Not reported |
| WDR Review - Revise/Renew: | Not reported |
| WDR Review - Rescind: | Not reported |
| WDR Review - No Action Required: | Not reported |
| WDR Review - Pending: | Not reported |
| WDR Review - Planned: | Not reported |
| Status Enrollee: | N |
| Individual/General: | I |
| Fee Code: | Not reported |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 222060 |
| Region: | 3 |
| Order / Resolution Number: | 94-114 |
| Enforcement Action Type: | Admin Civil Liability |
| Effective Date: | 10/14/1994 |
| Adoption/Issuance Date: | Not reported |
| Achieve Date: | 11/10/1994 |
| Termination Date: | Not reported |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |

**SS#9-1337 (Continued)** **S105026574**

| | |
|---|---|
| Title: | Enforcement - 3 440001N08 |
| Description: | ACL FOR FAILURE TO SUBMIT WORK PLAN AS REQUIRED BY JULY 28, 1994 LETTER. |
| Program: | UNREGS |
| Latest Milestone Completion Date: | 11/10/1994 |
| # Of Programs1: | 1 |
| Total Assessment Amount: | 8000 |
| Initial Assessed Amount: | 0 |
| Liability $ Amount: | 8000 |
| Project $ Amount: | 0 |
| Liability $ Paid: | 8000 |
| Project $ Completed: | 0 |
| Total $ Paid/Completed Amount: | 8000 |

HIST CORTESE:

| | |
|---|---|
| edr_fname: | CHEVRON STATION 9-1337 |
| edr_fadd1: | 200 MT HERMON |
| City,State,Zip: | SCOTTS VALLEY, CA |
| Region: | CORTESE |
| Facility County Code: | 44 |
| Reg By: | LTNKA |
| Reg Id: | 2421 |

CERS:

| | |
|---|---|
| Name: | CHEVRON STATION 9-1337 |
| Address: | 200 MOUNT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Site ID: | 213941 |
| CERS ID: | T0608700065 |
| CERS Description: | Leaking Underground Storage Tank Cleanup Site |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Regional Board Caseworker |
| Entity Name: | WEI LIU - CENTRAL COAST RWQCB (REGION 3) |
| Entity Title: | Not reported |
| Affiliation Address: | 895 AEROVISTA PLACE, SUITE 101 |
| Affiliation City: | SAN LUIS OBISPO |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | 8055493147 |

| | |
|---|---|
| Affiliation Type Desc: | Local Agency Caseworker |
| Entity Name: | SCOTT CARSON - SANTA CRUZ COUNTY |
| Entity Title: | Not reported |
| Affiliation Address: | 701 Ocean Street, Room 312 |
| Affiliation City: | SANTA CRUZ |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

**J82** **SKYPARK AIRPORT PROPERTY** **LUST** **S101539823**
**NE** **400 KINGS VILLAGE RD** **Cortese** **N/A**
**1/4-1/2** **SCOTTS VALLEY, CA 95066** **CERS**
**0.285 mi.**
**1505 ft.** **Site 1 of 2 in cluster J**

**Relative:**
**Higher**

**Actual:**
**528 ft.**

LUST:

| | |
|---|---|
| Name: | SKYPARK AIRPORT PROPERTY |
| Address: | 400 KINGS VILLAGE RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Lead Agency: | CENTRAL COAST RWQCB (REGION 3) |
| Case Type: | LUST Cleanup Site |
| Geo Track: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608700087 |
| Global Id: | T0608700087 |
| Latitude: | 37.0521002837718 |
| Longitude: | -122.031930354523 |
| Status: | Completed - Case Closed |
| Status Date: | 09/13/1994 |
| Case Worker: | Not reported |
| RB Case Number: | 2476 |
| Local Agency: | Not reported |
| File Location: | Not reported |
| Local Case Number: | Not reported |
| Potential Media Affect: | Soil |
| Potential Contaminants of Concern: | Gasoline |
| Site History: | Not reported |

LUST:

| | |
|---|---|
| Global Id: | T0608700087 |
| Action Type: | Other |
| Date: | 02/09/1994 |
| Action: | Leak Discovery |

| | |
|---|---|
| Global Id: | T0608700087 |
| Action Type: | Other |
| Date: | 07/22/1994 |
| Action: | Leak Reported |

LUST:

| | |
|---|---|
| Global Id: | T0608700087 |
| Status: | Open - Case Begin Date |
| Status Date: | 02/09/1994 |

| | |
|---|---|
| Global Id: | T0608700087 |
| Status: | Open - Remediation |
| Status Date: | 07/22/1994 |

| | |
|---|---|
| Global Id: | T0608700087 |
| Status: | Completed - Case Closed |
| Status Date: | 09/13/1994 |

LUST REG 3:

| | |
|---|---|
| Region: | 3 |
| Regional Board: | Central Coast Region |
| Facility County: | Santa Cruz |
| Global ID: | T0608700087 |
| Status: | Case Closed |
| Case Number: | 2476 |

**SKYPARK AIRPORT PROPERTY (Continued)** **S101539823**

| | |
|---|---|
| Local Case Num: | Not reported |
| Case Type: | S |
| Substance: | Gasoline |
| Quantity: | Not reported |
| Abatement Method: | Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming) |
| Leak Source: | Tank |
| Leak Cause: | UNK |
| How Stopped: | Not reported |
| How Discovered: | OM |
| Release Date: | 07/22/1994 |
| Discovered Date: | 2/9/94 |
| Enter Date: | 08/05/1994 |
| Stop Date: | Not reported |
| Review Date: | 08/05/1994 |
| Enforce Date: | Not reported |
| Close Date: | 9/13/94 |
| Enforcement Type: | Not reported |
| Responsible Party: | STEVE WOLFMAN |
| RP Address: | 809 CENTER ST RM 201 |
| Contact: | Not reported |
| Cross Street: | MT HERMAN RD |
| Local Agency: | 44000 |
| Lead Agency: | Regional Board |
| Staff Initials: | HDC |
| Confirm Leak: | Not reported |
| Workplan: | Not reported |
| Prelim Assess: | Not reported |
| Pollution Char: | / / |
| Remedial Plan: | Not reported |
| Remedial Action: | 7/22/94 |
| Monitoring: | / / |
| Pilot Program: | UST |
| Interim Action: | 0 |
| Funding: | Not reported |
| MTBE Class: | * |
| Max MTBE Grnd Wtr: | Not reported |
| Max MTBE Soil: | Not reported |
| Max MTBE Data: | / / |
| MTBE Tested: | NT |
| Lat/Long: | 37.0460035 / -122.0285615 |
| Soil Qualifier: | Not reported |
| Grnd Wtr Qualifier: | Not reported |
| Mtbe Concentratn: | 0 |
| Mtbe Fuel: | 1 |
| Org Name: | Not reported |
| Basin Plan: | 4.12 |
| Beneficial: | Not reported |
| Priority: | 3A1 |
| UST Cleanup Fund ID: | Not reported |
| Suspended: | Not reported |
| Operator: | Not reported |
| Water System: | MANANA WOODS MUTUAL WATER CO |
| Well Name: | WELL 01 |
| Distance From Well: | 0 |
| Assigned Name: | 10S/02W-24K03 M |
| Summary: | **** CASE CLOSED **** |

**SKYPARK AIRPORT PROPERTY (Continued)** **S101539823**

CORTESE:

| | |
|---|---|
| Name: | SKYPARK AIRPORT PROPERTY |
| Address: | 400 KINGS VILLAGE RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Region: | CORTESE |
| Envirostor Id: | Not reported |
| Global ID: | T0608700087 |
| Site/Facility Type: | LUST CLEANUP SITE |
| Cleanup Status: | COMPLETED - CASE CLOSED |
| Status Date: | Not reported |
| Site Code: | Not reported |
| Latitude: | Not reported |
| Longitude: | Not reported |
| Owner: | Not reported |
| Enf Type: | Not reported |
| Swat R: | Not reported |
| Flag: | active |
| Order No: | Not reported |
| Waste Discharge System No: | Not reported |
| Effective Date: | Not reported |
| Region 2: | Not reported |
| WID Id: | Not reported |
| Solid Waste Id No: | Not reported |
| Waste Management Uit Name: | Not reported |
| File Name: | Active Open |

CERS:

| | |
|---|---|
| Name: | SKYPARK AIRPORT PROPERTY |
| Address: | 400 KINGS VILLAGE RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Site ID: | 196689 |
| CERS ID: | T0608700087 |
| CERS Description: | Leaking Underground Storage Tank Cleanup Site |

---

**J83** **FORMER CITY HALL/CITY MANAGER** **LUST** **S100235796**
**NE** **370 KINGS VILLAGE RD** **SWEEPS UST** **N/A**
**1/4-1/2** **SCOTTS VALLEY, CA 95066** **HIST UST**
**0.285 mi.** **HIST CORTESE**
**1507 ft.** **Site 2 of 2 in cluster J**

**Relative:** **Higher**
**Actual:** **521 ft.**

LUST REG 3:

| | |
|---|---|
| Region: | 3 |
| Regional Board: | Central Coast Region |
| Facility County: | Santa Cruz |
| Global ID: | T0608700001 |
| Status: | Leak being confirmed |
| Case Number: | 1011 |
| Local Case Num: | Not reported |
| Case Type: | U |
| Substance: | Gasoline |
| Quantity: | Not reported |
| Abatement Method: | No Action Taken - no action has as yet been taken at the site |
| Leak Source: | Tank |
| Leak Cause: | Corrosion |
| How Stopped: | Not reported |
| How Discovered: | Tank Closure |
| Release Date: | 01/19/1988 |

**FORMER CITY HALL/CITY MANAGER (Continued)** **S100235796**

| | |
|---|---|
| Discovered Date: | 1/19/88 |
| Enter Date: | 01/12/1990 |
| Stop Date: | Not reported |
| Review Date: | 08/05/1992 |
| Enforce Date: | Not reported |
| Close Date: | Not reported |
| Enforcement Type: | Not reported |
| Responsible Party: | BOB GEYER |
| RP Address: | 700 LUNDY LANE |
| Contact: | Not reported |
| Cross Street: | Not reported |
| Local Agency: | 44000 |
| Lead Agency: | Regional Board |
| Staff Initials: | WNL |
| Confirm Leak: | 1/19/88 |
| Workplan: | Not reported |
| Prelim Assess: | Not reported |
| Pollution Char: | / / |
| Remedial Plan: | Not reported |
| Remedial Action: | Not reported |
| Monitoring: | / / |
| Pilot Program: | UST |
| Interim Action: | 0 |
| Funding: | Not reported |
| MTBE Class: | * |
| Max MTBE Grnd Wtr: | Not reported |
| Max MTBE Soil: | Not reported |
| Max MTBE Data: | / / |
| MTBE Tested: | NT |
| Lat/Long: | 37.0460035 / -122.0285615 |
| Soil Qualifier: | Not reported |
| Grnd Wtr Qualifier: | Not reported |
| Mtbe Concentratn: | 0 |
| Mtbe Fuel: | 1 |
| Org Name: | Not reported |
| Basin Plan: | 4.12 |
| Beneficial: | Not reported |
| Priority: | 2A4 |
| UST Cleanup Fund ID: | Not reported |
| Suspended: | Not reported |
| Operator: | Not reported |
| Water System: | MANANA WOODS MUTUAL WATER CO |
| Well Name: | WELL 01 |
| Distance From Well: | 0 |
| Assigned Name: | 10S/02W-24K03 M |
| Summary: | GROUNDWATER QUALITY INVESTIGATION REQUESTED BY RP (CITY OF SCOTTS VALLEY), BUT NOT YET SUBMITTED. BENZENE IN NEARBY MUNICIPAL WELLS. |

SWEEPS UST:

| | |
|---|---|
| Name: | FORMER CITY HALL/CITY MANAGER |
| Address: | 370 KINGS VILLAGE RD |
| City: | SCOTTS VALLEY |
| Status: | Not reported |
| Comp Number: | 2 |
| Number: | Not reported |
| Board Of Equalization: | Not reported |
| Referral Date: | Not reported |

**FORMER CITY HALL/CITY MANAGER (Continued)** **S100235796**

Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 44-054-000002-000001
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: PRM UNLEADED
Number Of Tanks: 1

HIST UST:
Name: CITY HALL
Address: 370 KINGS VILLAGE ROAD
City,State,Zip: SCOTTS VALLEY, CA 95066
File Number: 00020B5B
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00020B5B.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

HIST CORTESE:
edr_fname: OLD CITY HALL
edr_fadd1: 370 KINGS VILLAGE
City,State,Zip: SCOTTS VALLEY, CA 95066
Region: CORTESE
Facility County Code: 44
Reg By: LTNKA
Reg Id: 1011

**K84** **MOBIL STATION #10-KDQ** **LUST** **S102433858**
**ESE** **201 MOUNT HERMON RD** **Cortese** **N/A**
**1/4-1/2** **SCOTTS VALLEY, CA 95066** **CERS**
**0.303 mi.**
**1601 ft.** **Site 1 of 4 in cluster K**

**Relative:**
**Higher**

**Actual:**
**520 ft.**

LUST REG 3:

| | |
|---|---|
| Region: | 3 |
| Regional Board: | Central Coast Region |
| Facility County: | Santa Cruz |
| Global ID: | T0608700187 |
| Status: | Case Closed |
| Case Number: | 345 |
| Local Case Num: | Not reported |
| Case Type: | S |
| Substance: | Waste Oil |
| Quantity: | Not reported |
| Abatement Method: | Excavate and Dispose - remove contaminated soil and dispose in approved site |
| Leak Source: | Tank |
| Leak Cause: | UNK |
| How Stopped: | Not reported |
| How Discovered: | Tank Closure |
| Release Date: | 11/11/1988 |
| Discovered Date: | 9/28/88 |
| Enter Date: | 12/14/1988 |
| Stop Date: | 9/28/88 |
| Review Date: | 09/20/1990 |
| Enforce Date: | Not reported |
| Close Date: | 7/3/90 |
| Enforcement Type: | Not reported |
| Responsible Party: | RALPH EDWARDS |
| RP Address: | P.O. BOX 2122 |
| Contact: | Not reported |
| Cross Street: | Not reported |
| Local Agency: | 44000 |
| Lead Agency: | Local Agency |
| Staff Initials: | HDC |
| Confirm Leak: | Not reported |
| Workplan: | Not reported |
| Prelim Assess: | Not reported |
| Pollution Char: | 12/09/1988 |
| Remedial Plan: | Not reported |
| Remedial Action: | Not reported |
| Monitoring: | / / |
| Pilot Program: | UST |
| Interim Action: | 0 |
| Funding: | R |
| MTBE Class: | * |
| Max MTBE Grnd Wtr: | Not reported |
| Max MTBE Soil: | Not reported |
| Max MTBE Data: | / / |
| MTBE Tested: | NRQ |
| Lat/Long: | 37.0451626 / -122.0271225 |
| Soil Qualifier: | Not reported |
| Grnd Wtr Qualifier: | Not reported |
| Mtbe Concentratn: | 0 |
| Mtbe Fuel: | 0 |
| Org Name: | Not reported |

**MOBIL STATION #10-KDQ (Continued)** **S102433858**

Basin Plan: 4.12
Beneficial: Not reported
Priority: 0
UST Cleanup Fund ID: Not reported
Suspended: Not reported
Operator: Not reported
Water System: SCOTTS VALLEY WATER DISTRICT
Well Name: HIDDEN OAKS WELL GAC EFFLUENT - INACTIVE
Distance From Well: 0
Assigned Name: E44/013-HOGACTR
Summary: CASE CLOSED. DATE UNKNOWN. RWQCB INFORMED 7/3/90

CORTESE:
Name: MOBIL STATION #10-KDQ
Address: 201 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0608700187
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

CERS:
Name: MOBIL STATION #10-KDQ
Address: 201 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Site ID: 218797
CERS ID: T0608700187
CERS Description: Leaking Underground Storage Tank Cleanup Site

Name: SCOTTS VALLEY GAS & MART
Address: 201 MOUNT HERMON ROAD
City,State,Zip: SCOTTS VALLEY, CA 95066-4002
Site ID: 493075
CERS ID: 110013898791
CERS Description: US EPA Air Emission Inventory System (EIS)

Affiliation:
Affiliation Type Desc: Facility Owner
Entity Name: EBRAHAM GHAFFARIAN
Entity Title: OWNER

**MOBIL STATION #10-KDQ (Continued)** **S102433858**

| | |
|---|---|
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Property Owner |
| Entity Name: | EBRAHIM GHAFFARIAN |
| Entity Title: | Not reported |
| Affiliation Address: | 201 MT HERMON RD |
| Affiliation City: | SCOTTSVALLEY |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | UST PO Name |
| Entity Name: | SCOTTS VLY GAS & AMP MART |
| Entity Title: | Not reported |
| Affiliation Address: | 201 MT HERMON RD |
| Affiliation City: | SCOTTSVALLEY |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Local Agency Caseworker |
| Entity Name: | SCOTT CARSON SANTA CRUZ CNTY LOP |
| Entity Title: | Not reported |
| Affiliation Address: | 701 OCEAN STREETNA ROOM 312 |
| Affiliation City: | SANTACRUZ |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Operator |
| Entity Name: | EBRAHIM GHAFFARIAN |
| Entity Title: | OPERATOR |
| Affiliation Address: | 201 MT HERMON RD |
| Affiliation City: | SCOTTSVALLEY |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | EBRAHAM GHAFFARIAN |
| Entity Title: | ENVIRONMENTAL CONTACT |
| Affiliation Address: | 201 MT HERMON ROAD |
| Affiliation City: | SCOTTSVALLEY |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

**MOBIL STATION #10-KDQ (Continued)** **S102433858**

| | |
|---|---|
| Affiliation Type Desc: | Facility Owner |
| Entity Name: | EBRAHIM GHAFFARIAN |
| Entity Title: | OWNER |
| Affiliation Address: | 201 MT HERMON RD |
| Affiliation City: | SCOTTSVALLEY |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

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**K85** **BP OIL FACILITY NO 11239** **LUST** **S102425680**
**ESE** **201 MOUNT HERMON RD** **N/A**
**1/4-1/2** **SCOTTS VALLEY, CA 95066**
**0.303 mi.**
**1601 ft.** **Site 2 of 4 in cluster K**

**Relative:** **Higher**

**Actual:** **520 ft.**

LUST REG 3:

| | |
|---|---|
| Region: | 3 |
| Regional Board: | Central Coast Region |
| Facility County: | Santa Cruz |
| Global ID: | T0608700049 |
| Status: | Remedial action (cleanup) Underway |
| Case Number: | 2314 |
| Local Case Num: | Not reported |
| Case Type: | A |
| Substance: | Gasoline |
| Quantity: | Not reported |
| Abatement Method: | U |
| Leak Source: | UNK |
| Leak Cause: | UNK |
| How Stopped: | Not reported |
| How Discovered: | Subsurface Monitoring |
| Release Date: | 02/08/1993 |
| Discovered Date: | 10/27/92 |
| Enter Date: | 02/17/1993 |
| Stop Date: | Not reported |
| Review Date: | 08/07/2002 |
| Enforce Date: | Not reported |
| Close Date: | Not reported |
| Enforcement Type: | LET |
| Responsible Party: | SCOTT HOOTON |
| RP Address: | 295 41ST ST SW BLDG 13 STE N |
| Contact: | Not reported |
| Cross Street: | WHISPERING PINES DR |
| Local Agency: | 44000 |
| Lead Agency: | Regional Board |
| Staff Initials: | WNL |
| Confirm Leak: | Not reported |
| Workplan: | Not reported |
| Prelim Assess: | Not reported |
| Pollution Char: | 01/04/1993 |
| Remedial Plan: | Not reported |
| Remedial Action: | 11/18/98 |
| Monitoring: | / / |
| Pilot Program: | UST |
| Interim Action: | Not reported |
| Funding: | Not reported |

**BP OIL FACILITY NO 11239 (Continued)** **S102425680**

MTBE Class: A
Max MTBE Grnd Wtr: 713
Max MTBE Soil: Not reported
Max MTBE Data: 08/09/2002
MTBE Tested: YES
Lat/Long: 37.0451626 / -122.0271225
Soil Qualifier: Not reported
Grnd Wtr Qualifier: =
Mtbe Concentratn: 17
Mtbe Fuel: 1
Org Name: Not reported
Basin Plan: 4.12
Beneficial: MUN
Priority: Not reported
UST Cleanup Fund ID: Not reported
Suspended: Not reported
Operator: Not reported
Water System: SCOTTS VALLEY WATER DISTRICT
Well Name: HIDDEN OAKS WELL GAC EFFLUENT - INACTIVE
Distance From Well: 0
Assigned Name: E44/013-HOGACTR
Summary: 4 WELLS INSTALLED. CONTAMINATION APPARENTLY COMING FROM OFF-SITE SOURCES. COMMINGLED PLUME APPEARS STABLE. NATURAL ATTENUATION/MONITORING. STATUS CHANGED DUE TO MTBE DETECTION. CURRENTLY BEING REQUIRED TO PERFORM REMEDIAL ACTION.

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**K86** **MOBIL SERVICE STATION** **LUST** **S105026575**
**ESE** **201 MT HERMON RD** **AST** **N/A**
**1/4-1/2** **SCOTTS VALLEY, CA 95066** **CERS HAZ WASTE**
**0.303 mi.** **HIST UST**
**1601 ft.** **Site 3 of 4 in cluster K** **CERS TANKS**
**Cortese**
**Relative: Higher** **CUPA Listings**
**HIST CORTESE**
**Actual: 520 ft.** **CERS**

LUST:
Name: SCOTTS VALLEY GAS & MART (WASTE OIL TANK)
Address: 201 MT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Lead Agency: SANTA CRUZ COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T10000001611
Global Id: T10000001611
Latitude: 37.0437039517361
Longitude: -122.025818377733
Status: Completed - Case Closed
Status Date: 08/30/2013
Case Worker: SC
RB Case Number: Not reported
Local Agency: SANTA CRUZ COUNTY
File Location: Local Agency
Local Case Number: RO0000223
Potential Media Affect: Sediments, Soil
Potential Contaminants of Concern: Acetone, Other Chlorinated Hydrocarbons, Other Solvent or Non-Petroleum Hydrocarbon, Tetrachloroethylene (PCE), Diesel, Waste Oil / Motor / Hydraulic / Lubricating
Site History: Conditional case closure transmittal and case closure letter issued

**MOBIL SERVICE STATION (Continued)** **S105026575**

by County on 08/29/2013. SEC, 08/30/2013 CCRWQCB has no further concerns regarding the waste-oil tank release. Due to the limited extent of contamination and the limited remaining risk, SCCEHS plans to issue a conditional case closure letter. SEC, 03/21/2012 A relatively small zone of soil impacted above ESLs remains at the site in an area about 10 feet in diameter from about 9 to 10 feet bgs. Groundwater appears to have only minor chemical impact at concentrations less than MCLs and ESLs. SEC, 02/24/2012 Leak discovered following removal of a 1,000 gallon waste oil UST on 4/11/2003. SEC, 10/21/2009

LUST:
Global Id: T10000001611
Contact Type: Local Agency Caseworker
Contact Name: SCOTT CARSON
Organization Name: SANTA CRUZ COUNTY
Address: 701 Ocean Street, Room 312
City: SANTA CRUZ
Email: scott.carson@co.santa-cruz.ca.us
Phone Number: Not reported

LUST:
Global Id: T10000001611
Action Type: ENFORCEMENT
Date: 04/30/2007
Action: Staff Letter

Global Id: T10000001611
Action Type: ENFORCEMENT
Date: 01/25/2006
Action: Staff Letter

Global Id: T10000001611
Action Type: ENFORCEMENT
Date: 10/03/2003
Action: Staff Letter

Global Id: T10000001611
Action Type: ENFORCEMENT
Date: 11/21/2005
Action: Warning Letter

Global Id: T10000001611
Action Type: ENFORCEMENT
Date: 03/07/2008
Action: Staff Letter

Global Id: T10000001611
Action Type: ENFORCEMENT
Date: 12/02/2010
Action: Notice of Violation

Global Id: T10000001611
Action Type: ENFORCEMENT
Date: 07/26/2011
Action: Staff Letter

**MOBIL SERVICE STATION (Continued)** **S105026575**

Global Id: T10000001611
Action Type: ENFORCEMENT
Date: 03/07/2012
Action: Staff Letter

Global Id: T10000001611
Action Type: ENFORCEMENT
Date: 02/23/2012
Action: Staff Letter

Global Id: T10000001611
Action Type: Other
Date: 04/11/2003
Action: Leak Discovery

Global Id: T10000001611
Action Type: Other
Date: 04/11/2003
Action: Leak Stopped

Global Id: T10000001611
Action Type: ENFORCEMENT
Date: 03/28/2013
Action: Notification - Public Notice of Case Closure

Global Id: T10000001611
Action Type: Other
Date: 05/02/2003
Action: Leak Reported

Global Id: T10000001611
Action Type: ENFORCEMENT
Date: 08/29/2013
Action: Closure/No Further Action Letter

Global Id: T10000001611
Action Type: ENFORCEMENT
Date: 12/11/2012
Action: Staff Letter

LUST:
Global Id: T10000001611
Status: Open - Case Begin Date
Status Date: 04/11/2003

Global Id: T10000001611
Status: Open - Site Assessment
Status Date: 10/21/2009

Global Id: T10000001611
Status: Open - Eligible for Closure
Status Date: 03/28/2013

Global Id: T10000001611
Status: Completed - Case Closed
Status Date: 08/30/2013

**MOBIL SERVICE STATION (Continued)** **S105026575**

Global Id: T10000001611
Status: Open - Eligible for Closure
Status Date: 08/30/2013

AST:
Name: SCOTTS VALLEY GAS & MART
Address: 201 MT HERMON RD
City/Zip: SCOTTS VALLEY,95066
Certified Unified Program Agencies: Not reported
Owner: EBRAHIM GHAFFARIAN
Total Gallons: Not reported
CERSID: 10192024
Facility ID: FA0000322
Business Name: SCOTTS VALLEY GAS & MART
Phone: (831) 438-3383
Fax: Not reported
Mailing Address: 201 MT HERMON RD
Mailing Address City: SCOTTS VALLEY
Mailing Address State: CA
Mailing Address Zip Code: 95066
Operator Name: EBRAHIM GHAFFARIAN
Operator Phone: (831) 438-3383
Owner Phone: (831) 438-3383
Owner Mail Address: 201 MT HERMON RD
Owner State: CA
Owner Zip Code: 95066
Owner Country: United States
Property Owner Name: EBRAHIM GHAFFARIAN
Property Owner Phone: (831) 438-3383
Property Owner Mailing Address: 201 MT HERMON RD
Property Owner City: SCOTTS VALLEY
Property Owner Stat : CA
Property Owner Zip Code: 95066
Property Owner Country: United States
EPAID: CAL000291061

CERS HAZ WASTE:
Name: SCOTTS VALLEY GAS & MART
Address: 201 MT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Site ID: 401686
CERS ID: 10192024
CERS Description: Hazardous Waste Generator

HIST UST:
Name: MOBIL SERVICE STATION
Address: 201 MT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
File Number: 00020C29
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00020C29.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported

**MOBIL SERVICE STATION (Continued)** **S105026575**

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:

CERS TANKS:
Name: SCOTTS VALLEY GAS & MART
Address: 201 MT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Site ID: 401686
CERS ID: 10192024
CERS Description: Underground Storage Tank

CORTESE:
Name: SCOTTS VALLEY GAS & MART (WASTE OIL TANK)
Address: 201 MT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Region: CORTESE
Envirostor Id: Not reported
Global ID: T10000001611
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 CRUZ:
Name: SCOTTS VALLEY GAS & MART
Address: 201 MT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0000322

**MOBIL SERVICE STATION (Continued)** **S105026575**

Cross Street: SCOTTS VALLEY DR
Description: HAZARDOUS WASTE GENERATOR (HMMP STD FORM)

Name: SCOTTS VALLEY GAS & MART
Address: 201 MT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0000322
Cross Street: SCOTTS VALLEY DR
Description: HMMP STANDARD FORM QR 3

Name: SCOTTS VALLEY GAS & MART
Address: 201 MT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0000322
Cross Street: SCOTTS VALLEY DR
Description: HMMP STANDARD FORM FILING FEE

Name: SCOTTS VALLEY GAS & MART
Address: 201 MT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0000322
Cross Street: SCOTTS VALLEY DR
Description: UNDERGROUND STORAGE TANK PROGRAM

Name: SCOTTS VALLEY GAS & MART
Address: 201 MT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0000322
Cross Street: SCOTTS VALLEY DR
Description: STATE UST SURCHARGE

HIST CORTESE:
edr_fname: BP OIL FACILITY NO. 11239
edr_fadd1: 201 MT HERMON
City,State,Zip: SCOTTS VALLEY, CA
Region: CORTESE
Facility County Code: 44
Reg By: LTNKA
Reg Id: 2314

CERS:
Name: SCOTTS VALLEY GAS & MART
Address: 201 MT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Site ID: 401686
CERS ID: 10192024
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 401686
Site Name: SCOTTS VALLEY GAS & MART
Violation Date: 07-31-2015
Citation: 22 CCR 12 66262.34(d) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(d)
Violation Description: Failure to dispose of hazardous waste within 180 days (or 270 if waste is transported over 200 miles) for the generator who generates less than 1000 kilogram per month, but more than 100 kilograms per month.

**MOBIL SERVICE STATION (Continued)** **S105026575**

Violation Notes: Returned to compliance on 10/15/2015.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 401686
Site Name: SCOTTS VALLEY GAS & MART
Violation Date: 07-27-2017
Citation: 23 CCR 16 2632, 2634, 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632, 2634, 2712(b)
Violation Description: Failure to maintain monitoring and maintenance records (e.g., alarm logs) and/or maintain records of appropriate follow-up actions.
Violation Notes: Returned to compliance on 10/05/2017. Alarm for circuit L 1, unleaded annular tank was activated Aug. 2, 2016. No explanetory documentation was made available for review. Provide documentaion which verifies that the reason for the alarm was investigated and that if a U S T system failure occurred, that it was repaired.
Violation Division: Santa Cruz County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 401686
Site Name: SCOTTS VALLEY GAS & MART
Violation Date: 07-11-2018
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: The Letter from the Chief Financial Officer on file is dated 02-18-08. Up date the letter.
Violation Division: Santa Cruz County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 401686
Site Name: SCOTTS VALLEY GAS & MART
Violation Date: 09-27-2017
Citation: 23 CCR 16 2717.1(g) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2717.1(g)
Violation Description: Red Tag has been removed, defaced, altered, or otherwise tampered with so that the information on the tag is not legible.
Violation Notes: Returned to compliance on 07/11/2018. Requested documentation connected with the alarm of August 2, 2016 have not been made available. This is the second request that the documetation be made available.
Violation Division: Santa Cruz County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 401686
Site Name: SCOTTS VALLEY GAS & MART
Violation Date: 07-16-2013
Citation: 19 CCR 4 2729.5 - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.5
Violation Description: Failure to submit inventory reports (Activities, Owner/Operator, Hazardous Materials Descriptions and Map pages, if required. Documentation must be resubmitted (for facilities which exceed EPCRA

**MOBIL SERVICE STATION (Continued)** **S105026575**

| | |
|---|---|
| | thresholds) or re-certified (for facilities which do not exceed EPCRA thresholds) by March 1. |
| Violation Notes: | Returned to compliance on 02/02/2014. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HMRRP |
| Violation Source: | CERS |
| | |
| Site ID: | 401686 |
| Site Name: | SCOTTS VALLEY GAS & MART |
| Violation Date: | 07-15-2020 |
| Citation: | 23 CCR 16 2636(f)(4) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(4) |
| Violation Description: | Failure to meet one or more of the following monitoring requirements in lieu of the requirement to be tightness tested every 12 months: The monitoring system maintains all product piping outside the dispenser to be fail-safe and shut down the pump when a leak is detected. The monitoring system shuts down the pump or stops flow when a leak is detected in the under dispenser containment (UDC). |
| Violation Notes: | Shear valve for 91 octane at dispenser 1-2 is inoperable and will not shut off the flow of fuel. Repair or replace the shear valve and retest the Bravo float and chain system at dispenser 1-2. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 401686 |
| Site Name: | SCOTTS VALLEY GAS & MART |
| Violation Date: | 07-11-2018 |
| Citation: | 23 CCR 16 2711(a)(8) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2711(a)(8) |
| Violation Description: | Failure to submit or maintain a current facility plot plan. |
| Violation Notes: | The facility site plan is out of date and incomplete. Submit an updated site plan. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 401686 |
| Site Name: | SCOTTS VALLEY GAS & MART |
| Violation Date: | 07-27-2017 |
| Citation: | HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities. |
| Violation Notes: | Returned to compliance on 10/19/2017. Hazardous materials business plan has not been re-certified since 02-3-15, including the inventory. Certification is an annual requirement Re-certify the hazardous materials business plan. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HMRRP |
| Violation Source: | CERS |
| | |
| Site ID: | 401686 |
| Site Name: | SCOTTS VALLEY GAS & MART |
| Violation Date: | 07-31-2015 |
| Citation: | 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, |

**MOBIL SERVICE STATION (Continued)** **S105026575**

| | |
|---|---|
| | Chapter 12, Section(s) 66262.34(f) |
| Violation Description: | Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date. |
| Violation Notes: | Returned to compliance on 10/15/2015. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |
| | |
| Site ID: | 401686 |
| Site Name: | SCOTTS VALLEY GAS & MART |
| Violation Date: | 07-11-2018 |
| Citation: | 23 CCR 16 2715(f)(3) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)(3) |
| 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. |
| Violation Notes: | Training log of DO employee training not available for review. Make the log available for review. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 401686 |
| Site Name: | SCOTTS VALLEY GAS & MART |
| Violation Date: | 07-30-2019 |
| Citation: | 23 CCR 16 2716(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2716(e) |
| Violation Description: | For designated operator (DO) monthly inspections conducted before October 1, 2018, failure to comply with one or more of the following requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(c). For designated operator (DO) 30 day inspections conducted on and after October 1, 2018, failure to conduct the designated UST operator visual inspection at least once every 30 days. |
| Violation Notes: | D O Reports are dated with only the month and year. Conduct the D O inspections every 30 days or less. The inspection date shall include the day, month and year of the inspection. |
| Violation Division: | Santa Cruz County Environmental Health |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 401686 |
| Site Name: | SCOTTS VALLEY GAS & MART |
| Violation Date: | 07-16-2013 |
| Citation: | 40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173 |
| Violation Description: | Failure to properly close hazardous waste containers when not in |

**MOBIL SERVICE STATION (Continued)** **S105026575**

active use.
Violation Notes: Returned to compliance on 07/24/2014.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 401686
Site Name: SCOTTS VALLEY GAS & MART
Violation Date: 09-12-2013
Citation: 19 CCR 4 2729.5 - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.5
Violation Description: Failure to submit inventory reports (Activities, Owner/Operator, Hazardous Materials Descriptions and Map pages, if required. Documentation must be resubmitted (for facilities which exceed EPCRA thresholds) or re-certified (for facilities which do not exceed EPCRA thresholds) by March 1.
Violation Notes: Returned to compliance on 02/02/2014.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 401686
Site Name: SCOTTS VALLEY GAS & MART
Violation Date: 07-16-2013
Citation: 22 CCR 16 66266.130 - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.130
Violation Description: Failure to properly handle, manage, label, and recycle used oil and fuel filters.
Violation Notes: Returned to compliance on 07/24/2014.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 401686
Site Name: SCOTTS VALLEY GAS & MART
Violation Date: 07-30-2019
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: Trained employees are not logged on the training certificate. Maintain a training certificate of trained employees.
Violation Division: Santa Cruz County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 401686
Site Name: SCOTTS VALLEY GAS & MART
Violation Date: 07-17-2014
Citation: 23 CCR 16 2638 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2638
Violation Description: Failure to test leak detection equipment as required every 12 months (VPH, sensor, LLD, ATG, etc.) and/or submit monitoring system

**MOBIL SERVICE STATION (Continued)** **S105026575**

certification to the CUPA within 30 days of completion of the test
Violation Notes: Returned to compliance on 08/06/2014.
Violation Division: Santa Cruz County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 401686
Site Name: SCOTTS VALLEY GAS & MART
Violation Date: 09-27-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 10/19/2017. This is the second notice that the business plan has not been re-certified since 02-03-15. Re-certify the hazardous materials busness plan.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 401686
Site Name: SCOTTS VALLEY GAS & MART
Violation Date: 07-16-2013
Citation: 40 CFR 1 265.171 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.171
Violation Description: Failure to accumulate hazardous waste in a container that is in good condition.
Violation Notes: Returned to compliance on 07/24/2014.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-11-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Mr. Ebrahim Ghaffarian, Owner.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-11-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Testing for annual monitoring certification by Nicholson Petroleum. All monitoriing certification and spill bucket testing passed.
Eval Division: Santa Cruz County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-15-2020
Violations Found: No
Eval Type: Routine done by local agency

**MOBIL SERVICE STATION (Continued)** **S105026575**

Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-15-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Mr. Abe Ghaffarian, Owner. The Owner's name was not obtained on the inspection report due to COVID-19 constraints.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-15-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Monitoring certification, spill bucket testing and line leak detector testing by Eco Chek Compliance.
Eval Division: Santa Cruz County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-16-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-16-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-16-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-24-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported

**MOBIL SERVICE STATION (Continued)** **S105026575**

| | |
|---|---|
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 07-24-2014 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| Eval General Type: | Other/Unknown |
| Eval Date: | 07-24-2014 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | UST |
| Eval Source: | CERS |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 07-26-2016 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Inspection authorized by Mr. Ebrahim Ghaffarian, owner. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 07-26-2016 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Testing conducted by Nicholson Petroleum. Testing included Monitoring system, overfill prevention, spill buckets, Bravo Box float chains, mechanical line leak detectors. All passed. No hazardous waste in storage during this inspection. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 07-26-2016 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Testing conducted by Nicholson Petroleum. Testing included Monitoring system, overfill prevention, spill buckets, Bravo Box float chains, mechanical line leak detectors. All passed. No hazardous waste in storage during this inspection. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | UST |
| Eval Source: | CERS |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 07-27-2017 |

**MOBIL SERVICE STATION (Continued)** **S105026575**

Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-27-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-27-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Monitoring Cert. spill buckets, line leak detectors, Bravo Box float adjustment tested by Nicholson Petroleum. All elements tested passed. Overfill prevention valves were in place, unobstructed.
Eval Division: Santa Cruz County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-30-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-30-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Mr. Esmail Ghaffarian, Partner.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-30-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-31-2015
Violations Found: No

**MOBIL SERVICE STATION (Continued)** **S105026575**

Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-31-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-31-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-06-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-26-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-12-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-12-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health

**MOBIL SERVICE STATION (Continued)** **S105026575**

Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-12-2013
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-18-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-18-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-27-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Inspection authorized by Mr. Smail Ghaffarian, Partner.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-27-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Smail Ghaffarian, Partner.
Eval Division: Santa Cruz County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-15-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Santa Cruz County Environmental Health
Eval Program: HW
Eval Source: CERS

**MOBIL SERVICE STATION (Continued)** **S105026575**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-11-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Mr. Ebrahim Ghaffarian, Owner.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 401686
Site Name: SCOTTS VALLEY GAS & MART
Site Address: 201 MT HERMON RD
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 07-11-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 401686
Site Name: SCOTTS VALLEY GAS & MART
Site Address: 201 MT HERMON RD
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 07-16-2013
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 Cruz County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 401686
Site Name: SCOTTS VALLEY GAS & MART
Site Address: 201 MT HERMON RD
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 07-16-2013
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 Cruz County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 401686
Site Name: SCOTTS VALLEY GAS & MART
Site Address: 201 MT HERMON RD
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 07-27-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection

**MOBIL SERVICE STATION (Continued)** **S105026575**

Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 401686
Site Name: SCOTTS VALLEY GAS & MART
Site Address: 201 MT HERMON RD
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 07-27-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 401686
Site Name: SCOTTS VALLEY GAS & MART
Site Address: 201 MT HERMON RD
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 07-31-2015
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 Cruz County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 401686
Site Name: SCOTTS VALLEY GAS & MART
Site Address: 201 MT HERMON RD
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 08-06-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 401686
Site Name: SCOTTS VALLEY GAS & MART
Site Address: 201 MT HERMON RD
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 09-12-2013
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 Cruz County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

**MOBIL SERVICE STATION (Continued)** **S105026575**

Site ID: 401686
Site Name: SCOTTS VALLEY GAS & MART
Site Address: 201 MT HERMON RD
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 09-27-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 401686
Site Name: SCOTTS VALLEY GAS & MART
Site Address: 201 MT HERMON RD
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 09-27-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS

Coordinates:
Site ID: 401686
Facility Name: SCOTTS VALLEY GAS & MART
Env Int Type Code: HMBP
Program ID: 10192024
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 37.043732
Longitude: -122.025887

Affiliation:
Affiliation Type Desc: UST Tank Operator
Entity Name: SCOTTS VALLEY GAS & MART
Entity Title: Not reported
Affiliation Address: 201 MT HERMON RD
Affiliation City: SCOTTS VALLEY
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95066
Affiliation Phone: (831) 438-3383

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 201 mt hermon dr
Affiliation City: scotts valley
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95066
Affiliation Phone: Not reported

**MOBIL SERVICE STATION (Continued)** **S105026575**

| | |
|---|---|
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | abe ghaffarian |
| Entity Title: | Not reported |
| Affiliation Address: | 201 mt hrmon rd |
| Affiliation City: | scotts valley dr |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 95066 |
| Affiliation Phone: | (831) 438-3383 |

| | |
|---|---|
| Affiliation Type Desc: | UST Tank Owner |
| Entity Name: | SCOTTS VALLEY GAS & MART |
| Entity Title: | Not reported |
| Affiliation Address: | 201 MT HERMON RD |
| Affiliation City: | SCOTTS VALLEY |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 95066 |
| Affiliation Phone: | (831) 438-3383 |

| | |
|---|---|
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | abe ghaffarian |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | abe ghaffarian |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | SCOTTS VALLEY GAS & MART |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | UST Property Owner Name |
| Entity Name: | SCOTTS VALLEY GAS & MART |
| Entity Title: | Not reported |
| Affiliation Address: | 201 MT HERMON RD |
| Affiliation City: | SCOTTS VALLEY |
| Affiliation State: | CA |
| Affiliation Country: | United States |

**MOBIL SERVICE STATION (Continued)** **S105026575**

| | |
|---|---|
| Affiliation Zip: | 95066 |
| Affiliation Phone: | (831) 438-3383 |
| | |
| Affiliation Type Desc: | CUPA District |
| Entity Name: | Santa Cruz County Environmental Health |
| Entity Title: | Not reported |
| Affiliation Address: | 701 Ocean Boulevard, Suite 312 |
| Affiliation City: | Santa Cruz |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95060 |
| Affiliation Phone: | (831) 454-2022 |
| | |
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | abe ghaffarian |
| Entity Title: | Not reported |
| Affiliation Address: | 201 MT HERMON RD |
| Affiliation City: | SCOTTS VALLEY |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95066 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Operator |
| Entity Name: | SCOTTS VALLEY GAS & MART |
| 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: | (831) 438-3383 |
| | |
| Affiliation Type Desc: | Property Owner |
| Entity Name: | abe ghaffarian |
| Entity Title: | Not reported |
| Affiliation Address: | 201 mt hrmon rd |
| Affiliation City: | scotts valley |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 95066 |
| Affiliation Phone: | (831) 438-3383 |
| | |
| Affiliation Type Desc: | UST Permit Applicant |
| Entity Name: | EBRAHAM GHAFARIAN |
| Entity Title: | OWNER/OPERATOR |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (831) 438-3383 |
| | |
| Name: | SCOTTS VALLEY GAS & MART (WASTE OIL TANK) |
| Address: | 201 MT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |

**MOBIL SERVICE STATION (Continued)** **S105026575**

Site ID: 207643
CERS ID: T10000001611
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: SCOTT CARSON - SANTA CRUZ COUNTY
Entity Title: Not reported
Affiliation Address: 701 Ocean Street, Room 312
Affiliation City: SANTA CRUZ
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

---

**K87** **BP #11239** **LUST** **U001602070**
**ESE** **201 MOUNT HERMON RD** **HIST UST** **N/A**
**1/4-1/2** **SCOTTS VALLEY, CA 95066** **Cortese**
**0.303 mi.** **CERS**
**1601 ft.** **Site 4 of 4 in cluster K**

**Relative:**
**Higher**

**Actual:**
**520 ft.**

LUST:
Name: BP #11239
Address: 201 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Lead Agency: CENTRAL COAST RWQCB (REGION 3)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608700049
Global Id: T0608700049
Latitude: 37.0436343732515
Longitude: -122.02573120594
Status: Completed - Case Closed
Status Date: 04/11/2016
Case Worker: WNL
RB Case Number: 2314
Local Agency: SANTA CRUZ COUNTY
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0608700049
Contact Type: Local Agency Caseworker
Contact Name: SCOTT CARSON
Organization Name: SANTA CRUZ COUNTY
Address: 701 Ocean Street, Room 312
City: SANTA CRUZ
Email: scott.carson@co.santa-cruz.ca.us
Phone Number: Not reported

Global Id: T0608700049
Contact Type: Regional Board Caseworker
Contact Name: WEI LIU
Organization Name: CENTRAL COAST RWQCB (REGION 3)
Address: 895 AEROVISTA PLACE, SUITE 101
City: SAN LUIS OBISPO

**BP #11239 (Continued)** **U001602070**

Email: wei.liu@waterboards.ca.gov
Phone Number: 8055493147

LUST:
Global Id: T0608700049
Action Type: RESPONSE
Date: 07/20/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0608700049
Action Type: RESPONSE
Date: 08/22/1995
Action: Soil and Water Investigation Report

Global Id: T0608700049
Action Type: RESPONSE
Date: 05/18/1993
Action: Monitoring Report - Other

Global Id: T0608700049
Action Type: RESPONSE
Date: 03/21/2003
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 05/24/1995
Action: Interim Remedial Action Report

Global Id: T0608700049
Action Type: RESPONSE
Date: 09/23/1994
Action: Tank Removal Report / UST Sampling Report

Global Id: T0608700049
Action Type: RESPONSE
Date: 09/23/1994
Action: Soil and Water Investigation Report

Global Id: T0608700049
Action Type: RESPONSE
Date: 01/17/1995
Action: Correspondence

Global Id: T0608700049
Action Type: RESPONSE
Date: 10/18/1998
Action: Soil and Water Investigation Report

Global Id: T0608700049
Action Type: RESPONSE
Date: 07/07/1995
Action: Soil and Water Investigation Workplan

Global Id: T0608700049
Action Type: RESPONSE
Date: 10/18/1988

**BP #11239 (Continued)** **U001602070**

Action: Soil and Water Investigation Report

Global Id: T0608700049
Action Type: RESPONSE
Date: 01/04/1993
Action: Site Assessment Report

Global Id: T0608700049
Action Type: RESPONSE
Date: 08/22/1995
Action: Correspondence

Global Id: T0608700049
Action Type: RESPONSE
Date: 01/07/2002
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 09/28/2000
Action: Site Assessment Report

Global Id: T0608700049
Action Type: RESPONSE
Date: 11/16/1993
Action: Soil and Water Investigation Report

Global Id: T0608700049
Action Type: RESPONSE
Date: 01/20/1995
Action: Correspondence

Global Id: T0608700049
Action Type: RESPONSE
Date: 01/10/2004
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 07/13/1995
Action: Interim Remedial Action Report

Global Id: T0608700049
Action Type: RESPONSE
Date: 01/09/1995
Action: Tank Removal Report / UST Sampling Report

Global Id: T0608700049
Action Type: RESPONSE
Date: 07/17/2003
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 10/08/2004
Action: Monitoring Report - Quarterly

**BP #11239 (Continued)** **U001602070**

Global Id: T0608700049
Action Type: RESPONSE
Date: 02/12/2002
Action: Correspondence

Global Id: T0608700049
Action Type: RESPONSE
Date: 02/06/1995
Action: Site Assessment Report

Global Id: T0608700049
Action Type: RESPONSE
Date: 08/21/1995
Action: Soil and Water Investigation Report

Global Id: T0608700049
Action Type: RESPONSE
Date: 06/29/1993
Action: Soil and Water Investigation Report

Global Id: T0608700049
Action Type: RESPONSE
Date: 12/07/1993
Action: Correspondence

Global Id: T0608700049
Action Type: RESPONSE
Date: 12/01/1993
Action: Correspondence

Global Id: T0608700049
Action Type: RESPONSE
Date: 10/18/1988
Action: Soil and Water Investigation Report

Global Id: T0608700049
Action Type: RESPONSE
Date: 04/20/1995
Action: Correspondence

Global Id: T0608700049
Action Type: RESPONSE
Date: 04/19/1995
Action: Correspondence

Global Id: T0608700049
Action Type: RESPONSE
Date: 07/26/1995
Action: Correspondence

Global Id: T0608700049
Action Type: RESPONSE
Date: 10/01/1996
Action: Correspondence

Global Id: T0608700049
Action Type: RESPONSE

**BP #11239 (Continued)** **U001602070**

Date: 08/16/1996
Action: Correspondence

Global Id: T0608700049
Action Type: RESPONSE
Date: 09/13/1995
Action: Correspondence

Global Id: T0608700049
Action Type: RESPONSE
Date: 01/19/2004
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 11/30/2001
Action: Correspondence

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 10/25/2001
Action: Staff Letter

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 05/17/2005
Action: Staff Letter

Global Id: T0608700049
Action Type: RESPONSE
Date: 01/20/2004
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 04/20/2004
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 07/20/2005
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 10/20/2005
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 01/20/2006
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 01/09/2008
Action: Soil and Water Investigation Workplan

**BP #11239 (Continued)** **U001602070**

Global Id: T0608700049
Action Type: RESPONSE
Date: 04/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 09/08/1999
Action: Correspondence

Global Id: T0608700049
Action Type: RESPONSE
Date: 09/17/1993
Action: Correspondence

Global Id: T0608700049
Action Type: RESPONSE
Date: 04/14/2000
Action: Soil and Water Investigation Report

Global Id: T0608700049
Action Type: RESPONSE
Date: 09/11/2000
Action: Correspondence

Global Id: T0608700049
Action Type: RESPONSE
Date: 06/30/2000
Action: Correspondence

Global Id: T0608700049
Action Type: RESPONSE
Date: 06/09/1995
Action: Correspondence

Global Id: T0608700049
Action Type: RESPONSE
Date: 04/24/1995
Action: Correspondence

Global Id: T0608700049
Action Type: RESPONSE
Date: 10/20/2003
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 05/19/1995
Action: Soil and Water Investigation Report

Global Id: T0608700049
Action Type: RESPONSE
Date: 01/14/1997
Action: Correspondence

Global Id: T0608700049
Action Type: RESPONSE

**BP #11239 (Continued)** **U001602070**

Date: 10/18/1988
Action: Soil and Water Investigation Report

Global Id: T0608700049
Action Type: RESPONSE
Date: 07/05/1994
Action: Correspondence

Global Id: T0608700049
Action Type: RESPONSE
Date: 07/13/1993
Action: Correspondence

Global Id: T0608700049
Action Type: RESPONSE
Date: 07/21/1999
Action: Correspondence

Global Id: T0608700049
Action Type: RESPONSE
Date: 03/03/2004
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 08/20/1993
Action: Monitoring Report - Other

Global Id: T0608700049
Action Type: RESPONSE
Date: 03/21/1995
Action: Correspondence

Global Id: T0608700049
Action Type: RESPONSE
Date: 09/18/2009
Action: Correspondence

Global Id: T0608700049
Action Type: RESPONSE
Date: 07/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 11/07/2002
Action: Staff Letter

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 10/04/2007
Action: Clean Up Fund - Letter to RP

Global Id: T0608700049
Action Type: RESPONSE
Date: 07/20/2003
Action: Monitoring Report - Quarterly

**BP #11239 (Continued)** **U001602070**

Global Id: T0608700049
Action Type: RESPONSE
Date: 04/20/2005
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 07/20/2006
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 04/20/2007
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 02/24/1995
Action: Clean-up and Abatement Order

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 11/10/1993
Action: Notice of Violation

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 09/24/1993
Action: 13267 Requirement

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 12/01/2010
Action: Staff Letter

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 04/30/2007
Action: Staff Letter

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 04/12/2005
Action: 13267 Requirement

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 06/20/2002
Action: File review

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 12/22/1999
Action: 13267 Requirement

Global Id: T0608700049
Action Type: ENFORCEMENT

**BP #11239 (Continued)** **U001602070**

Date: 12/01/1993
Action: Notice of Violation

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 11/04/1996
Action: File review

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 12/20/1994
Action: 13267 Requirement

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 04/19/2000
Action: File review

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 09/08/2015
Action: Staff Letter

Global Id: T0608700049
Action Type: RESPONSE
Date: 01/20/2005
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 10/20/2004
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 07/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 04/20/2006
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 07/20/2008
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 06/15/2010
Action: 13267 Requirement

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 02/05/2008
Action: 13267 Requirement

**BP #11239 (Continued)** **U001602070**

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 10/24/2008
Action: File review

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 05/24/2000
Action: 13267 Requirement

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 07/27/1993
Action: 13267 Requirement

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 12/05/1996
Action: Letter - Notice

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 10/04/1994
Action: File review

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 08/26/1996
Action: Letter - Notice

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 12/05/2007
Action: Clean Up Fund - Letter to RP

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 01/25/2006
Action: Staff Letter

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 07/27/2000
Action: 13267 Requirement

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 10/25/2001
Action: 13267 Requirement

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 07/06/2011
Action: Letter - Notice

Global Id: T0608700049
Action Type: ENFORCEMENT

**BP #11239 (Continued)** **U001602070**

Date: 12/08/2003
Action: 13267 Requirement

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 10/01/2002
Action: 13267 Requirement

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 02/22/1993
Action: 13267 Monitoring Program

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 09/08/1993
Action: Letter - Notice

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 07/02/1999
Action: 13267 Requirement

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 03/07/2008
Action: Staff Letter

Global Id: T0608700049
Action Type: RESPONSE
Date: 10/20/2006
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 07/20/2007
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 04/16/2013
Action: Soil and Water Investigation Report

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 02/28/2006
Action: Staff Letter

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 03/18/1997
Action: Letter - Notice

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 02/16/1995
Action: 13267 Requirement

**BP #11239 (Continued)** **U001602070**

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 06/15/2010
Action: 13267 Requirement

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 09/13/2011
Action: Petition Submitted for Review

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 09/18/2000
Action: Warning Letter

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 06/26/2008
Action: File review

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 11/08/2011
Action: Staff Letter

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 04/11/2016
Action: Closure/No Further Action Letter

Global Id: T0608700049
Action Type: RESPONSE
Date: 04/20/2008
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 01/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 01/20/2008
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 01/20/2003
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 01/09/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0608700049
Action Type: ENFORCEMENT

**BP #11239 (Continued)** **U001602070**

Date: 04/19/2013
Action: Staff Letter

Global Id: T0608700049
Action Type: Other
Date: 10/27/1992
Action: Leak Discovery

Global Id: T0608700049
Action Type: Other
Date: 02/08/1993
Action: Leak Reported

Global Id: T0608700049
Action Type: RESPONSE
Date: 10/20/2007
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 01/20/2007
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 07/20/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 12/04/2008
Action: File review

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 10/29/2013
Action: Staff Letter

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 04/27/2012
Action: Letter - Notice

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 10/31/2013
Action: Staff Letter

Global Id: T0608700049
Action Type: RESPONSE
Date: 07/20/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0608700049
Action Type: RESPONSE
Date: 01/20/2009
Action: Monitoring Report - Quarterly

**BP #11239 (Continued)** **U001602070**

Global Id: T0608700049
Action Type: RESPONSE
Date: 04/20/2009
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 01/20/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0608700049
Action Type: RESPONSE
Date: 10/20/2008
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 07/20/2002
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 10/20/2002
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 10/20/2003
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 04/20/2003
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 01/20/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0608700049
Action Type: RESPONSE
Date: 08/13/2010
Action: Well Destruction Workplan

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 03/13/2009
Action: 13267 Requirement

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 03/10/2009
Action: File review

Global Id: T0608700049
Action Type: ENFORCEMENT

**BP #11239 (Continued)** **U001602070**

Date: 03/10/2009
Action: File review

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 05/17/2013
Action: Staff Letter

Global Id: T0608700049
Action Type: RESPONSE
Date: 08/30/1994
Action: Unauthorized Release Form

Global Id: T0608700049
Action Type: RESPONSE
Date: 11/11/1988
Action: Unauthorized Release Form

Global Id: T0608700049
Action Type: RESPONSE
Date: 08/30/1994
Action: Unauthorized Release Form

Global Id: T0608700049
Action Type: RESPONSE
Date: 08/28/2002
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: RESPONSE
Date: 05/02/2000
Action: Other Report / Document

Global Id: T0608700049
Action Type: RESPONSE
Date: 11/25/2002
Action: Monitoring Report - Quarterly

Global Id: T0608700049
Action Type: ENFORCEMENT
Date: 10/29/2010
Action: 13267 Requirement

LUST:
Global Id: T0608700049
Status: Open - Case Begin Date
Status Date: 10/27/1992

Global Id: T0608700049
Status: Open - Site Assessment
Status Date: 01/04/1993

Global Id: T0608700049
Status: Open - Remediation
Status Date: 11/18/1998

Global Id: T0608700049

**BP #11239 (Continued)** **U001602070**

Status: Open - Remediation
Status Date: 01/20/2002

Global Id: T0608700049
Status: Open - Verification Monitoring
Status Date: 01/13/2006

Global Id: T0608700049
Status: Open - Verification Monitoring
Status Date: 01/13/2006

Global Id: T0608700049
Status: Open - Site Assessment
Status Date: 01/09/2008

Global Id: T0608700049
Status: Open - Inactive
Status Date: 04/27/2012

Global Id: T0608700049
Status: Open - Eligible for Closure
Status Date: 05/19/2014

Global Id: T0608700049
Status: Completed - Case Closed
Status Date: 04/11/2016

Name: MOBIL STATION #10-KDQ
Address: 201 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Lead Agency: SANTA CRUZ COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608700187
Global Id: T0608700187
Latitude: 37.0389337
Longitude: -122.0229335
Status: Completed - Case Closed
Status Date: 07/03/1990
Case Worker: TF
RB Case Number: 345
Local Agency: SANTA CRUZ COUNTY
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

LUST:
Global Id: T0608700187
Action Type: Other
Date: 09/28/1988
Action: Leak Discovery

Global Id: T0608700187
Action Type: Other
Date: 09/28/1988
Action: Leak Stopped

**BP #11239 (Continued)** **U001602070**

Global Id: T0608700187
Action Type: Other
Date: 11/11/1988
Action: Leak Reported

LUST:
Global Id: T0608700187
Status: Open - Case Begin Date
Status Date: 09/28/1988

Global Id: T0608700187
Status: Open - Site Assessment
Status Date: 12/09/1988

Global Id: T0608700187
Status: Completed - Case Closed
Status Date: 07/03/1990

HIST UST:
Name: MOBIL SERVICE STATION
Address: 201 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000039562
Facility Type: Gas Station
Other Type: MOTOR VEHICLE FUEL S
Contact Name: MICHEL H. MARINA
Telephone: 4084383383
Owner Name: MOBIL OIL CORPORATION
Owner Address: 612 SO. FLOWER STREET
Owner City,St,Zip: LOS ANGELES, CA 90017
Total Tanks: 0004

Tank Num: 001
Container Num: 1
Year Installed: 1984
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor, Pressure Test

Tank Num: 002
Container Num: 2
Year Installed: 1984
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor, Pressure Test

Tank Num: 003
Container Num: 3

**BP #11239 (Continued)** **U001602070**

Year Installed: 1984
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor, Pressure Test

Tank Num: 004
Container Num: 4
Year Installed: 1965
Tank Capacity: 00000280
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Visual

CORTESE:
Name: BP #11239
Address: 201 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0608700049
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

CERS:
Name: BP #11239
Address: 201 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Site ID: 238815
CERS ID: T0608700049
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: SCOTT CARSON - SANTA CRUZ COUNTY
Entity Title: Not reported
Affiliation Address: 701 Ocean Street, Room 312
Affiliation City: SANTA CRUZ
Affiliation State: CA

**BP #11239 (Continued)** **U001602070**

| | |
|---|---|
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| Affiliation Type Desc: | Regional Board Caseworker |
| Entity Name: | WEI LIU - CENTRAL COAST RWQCB (REGION 3) |
| Entity Title: | Not reported |
| Affiliation Address: | 895 AEROVISTA PLACE, SUITE 101 |
| Affiliation City: | SAN LUIS OBISPO |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | 8055493147 |

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**L88** **TOSCO - FACILITY #6153** **LUST** **S105224845**
**ESE** **99 MOUNT HERMON RD** **Cortese** **N/A**
**1/4-1/2** **SCOTTS VALLEY, CA 95066** **HAZNET**
**0.353 mi.** **CERS**
**1862 ft.** **Site 1 of 6 in cluster L** **HWTS**

**Relative:** **Lower**

**Actual:** **515 ft.**

LUST REG 3:

| | |
|---|---|
| Region: | 3 |
| Regional Board: | Central Coast Region |
| Facility County: | Santa Cruz |
| Global ID: | T0608700248 |
| Status: | Remedial action (cleanup) Underway |
| Case Number: | 618 |
| Local Case Num: | Not reported |
| Case Type: | A |
| Substance: | Gasoline |
| Quantity: | Not reported |
| Abatement Method: | Pump and Treat Ground Water - generally employed to remove dissolved contaminants |
| Leak Source: | Tank |
| Leak Cause: | Overfill |
| How Stopped: | Not reported |
| How Discovered: | Subsurface Monitoring |
| Release Date: | 10/29/1986 |
| Discovered Date: | Not reported |
| Enter Date: | 07/02/1987 |
| Stop Date: | Not reported |
| Review Date: | 08/07/2002 |
| Enforce Date: | 12/2/86 |
| Close Date: | Not reported |
| Enforcement Type: | LET |
| Responsible Party: | ED RALSTON |
| RP Address: | 1380 LEAD HILL ROAD, SUITE 120 |
| Contact: | Not reported |
| Cross Street: | WHISPERING PINES DR. |
| Local Agency: | 44000 |
| Lead Agency: | Regional Board |
| Staff Initials: | WNL |
| Confirm Leak: | 10/1/87 |
| Workplan: | Not reported |
| Prelim Assess: | Not reported |
| Pollution Char: | 06/15/1987 |
| Remedial Plan: | 7/7/87 |

**TOSCO - FACILITY #6153 (Continued)** **S105224845**

Remedial Action: 11/18/98
Monitoring: / /
Pilot Program: UST
Interim Action: -
Funding: R
MTBE Class: A
Max MTBE Grnd Wtr: 86
Max MTBE Soil: Not reported
Max MTBE Data: 01/23/2002
MTBE Tested: YES
Lat/Long: 37.0425596 / -122.0248835
Soil Qualifier: Not reported
Grnd Wtr Qualifier: =
Mtbe Concentratn: 15
Mtbe Fuel: 1
Org Name: Not reported
Basin Plan: 4.12
Beneficial: MUN
Priority: 1A3
UST Cleanup Fund ID: Not reported
Suspended: Not reported
Operator: Not reported
Water System: DAWAIN TERRELL
Well Name: SAN LORENZO VALLEY WD - TREATED GW
Distance From Well: 0
Assigned Name: 4410004-003
Summary: VAPOR EXTRACTION INSTALLED. CURRENTLY SHUT-DOWN. COMMINGLED PLUMES WITH NEARBY SITE APPEARS STABLE. MONITORING ON-GOING.

CORTESE:
Name: TOSCO - FACILITY #6153
Address: 99 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0608700248
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

HAZNET:

**TOSCO - FACILITY #6153 (Continued)** **S105224845**

| | |
|---|---|
| Name: | DC KNUDSEN CORP DBA SCOTTS VALLEY 76 |
| Address: | 99 MOUNT HERMON RD |
| Address 2: | Not reported |
| City,State,Zip: | SCOTTS VALLEY, CA 913010000 |
| Contact: | DOUG KNUDSEN |
| Telephone: | 8313373684 |
| Mailing Name: | Not reported |
| Mailing Address: | 29501 CANWOOD ST STE 200 |
| | |
| Year: | 2019 |
| Gepaid: | CAL000403412 |
| TSD EPA ID: | CAD059494310 |
| 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: | 0.08750 |
| | |
| Year: | 2019 |
| Gepaid: | CAL000403412 |
| TSD EPA ID: | CAD059494310 |
| 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: | 0.04950 |
| | |
| Year: | 2017 |
| Gepaid: | CAL000403412 |
| TSD EPA ID: | CAD059494310 |
| 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: | 0.125 |
| | |
| Year: | 2017 |
| Gepaid: | CAL000403412 |
| TSD EPA ID: | CAD980675276 |
| CA Waste Code: | 223 - Unspecified oil-containing waste |
| Disposal Method: | H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| Tons: | 0.05 |
| | |
| Year: | 2017 |
| Gepaid: | CAL000403412 |
| TSD EPA ID: | UTD981552177 |
| CA Waste Code: | 352 - Other organic solids |
| Disposal Method: | H040 - Incineration--Thermal Destruction Other Than Use As A Fuel |
| Tons: | 0.15 |

Additional Info:

| | |
|---|---|
| Year: | 2017 |
| Gen EPA ID: | CAL000403412 |
| | |
| Shipment Date: | 20171127 |
| Creation Date: | 8/7/2018 18:30:34 |
| Receipt Date: | 20171207 |
| Manifest ID: | 003620973GBF |

**TOSCO - FACILITY #6153 (Continued)** **S105224845**

| | |
|---|---|
| Trans EPA ID: | CAD088838222 |
| Trans Name: | BAYSIDE OIL II INC |
| Trans 2 EPA ID: | MAD039322250 |
| Trans 2 Name: | CLEAN HARBORS ENVIR SVS INC |
| TSDF EPA ID: | CAD059494310 |
| Trans Name: | CLEAN HARBORS SAN JOSE 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: | 0.125 |
| Waste Quantity: | 250 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20170303 |
| Creation Date: | 5/25/2017 18:31:11 |
| Receipt Date: | 20170316 |
| Manifest ID: | 005902038SKS |
| Trans EPA ID: | TXR000081205 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| Trans 2 EPA ID: | MAD039322250 |
| Trans 2 Name: | CLEAN HARBORS ENVIRONMENTAL SERVICES INC |
| TSDF EPA ID: | CAD980675276 |
| Trans Name: | CLEANHARBORS OF BUTTONWILLOW |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| 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: | 20170303 |
| Creation Date: | 5/11/2018 18:33:30 |
| Receipt Date: | 20170321 |
| Manifest ID: | 005902037SKS |
| Trans EPA ID: | TXR000081205 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| Trans 2 EPA ID: | MAD039322250 |
| Trans 2 Name: | CLEAN HARBORS ENVIRONMENTAL SERVICES INC |
| TSDF EPA ID: | UTD981552177 |
| Trans Name: | CLEAN HARBORS ARAGONITE LLC |
| TSDF Alt EPA ID: | Not reported |

**TOSCO - FACILITY #6153 (Continued)** **S105224845**

| | |
|---|---|
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | D018 |
| Meth Code: | H040 - Incineration--Thermal Destruction Other Than Use As A Fuel |
| Quantity Tons: | 0.15 |
| Waste Quantity: | 300 |
| Quantity Unit: | P |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

CERS:

| | |
|---|---|
| Name: | CONOCOPHILLIPS COMPANY |
| Address: | 99 MOUNT HERMON ROAD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066-4768 |
| Site ID: | 462079 |
| CERS ID: | 110021342821 |
| CERS Description: | US EPA Air Emission Inventory System (EIS) |

| | |
|---|---|
| Name: | TOSCO - FACILITY #6153 |
| Address: | 99 MOUNT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Site ID: | 187051 |
| CERS ID: | T0608700248 |
| CERS Description: | Leaking Underground Storage Tank Cleanup Site |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Local Agency Caseworker |
| Entity Name: | SCOTT CARSON - SANTA CRUZ COUNTY |
| Entity Title: | Not reported |
| Affiliation Address: | 701 Ocean Street, Room 312 |
| Affiliation City: | SANTA CRUZ |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Regional Board Caseworker |
| Entity Name: | WEI LIU - CENTRAL COAST RWQCB (REGION 3) |
| Entity Title: | Not reported |
| Affiliation Address: | 895 AEROVISTA PLACE, SUITE 101 |
| Affiliation City: | SAN LUIS OBISPO |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | 8055493147 |

HWTS:

| | |
|---|---|
| Name: | DC KNUDSEN CORP DBA SCOTTS VALLEY 76 |
| Address: | 99 MOUNT HERMON RD |
| Address 2: | Not reported |
| City,State,Zip: | SCOTTS VALLEY, CA 950664768 |
| EPA ID: | CAL000403412 |
| Inactive Date: | Not reported |

**TOSCO - FACILITY #6153 (Continued)** **S105224845**

| | |
|---|---|
| Create Date: | 01/02/2015 |
| Last Act Date: | 07/10/2020 |
| Mailing Name: | Not reported |
| Mailing Address: | 29501 CANWOOD ST STE 200 |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | AGOURA HILLS, CA 913010000 |
| Owner Name: | DC KNUDSEN CORP |
| Owner Address: | 99 MOUNT HERMON RD |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | SCOTTS VALLEY, CA 950664768 |
| Contact Name: | DOUG KNUDSEN |
| Contact Address: | 99 MOUNT HERMON RD |
| Contact Address 2: | Not reported |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |

NAICS:

| | |
|---|---|
| EPA ID: | CAL000403412 |
| Create Date: | 2015-01-02 11:51:28.970 |
| NAICS Code: | 44719 |
| NAICS Description: | Other Gasoline Stations |
| Issued EPA ID Date: | 2015-01-02 11:51:28.96300 |
| Inactive Date: | Not reported |
| Facility Name: | DC KNUDSEN CORP DBA SCOTTS VALLEY 76 |
| Facility Address: | 99 MOUNT HERMON RD |
| Facility Address 2: | Not reported |
| Facility City: | SCOTTS VALLEY |
| Facility County: | Not reported |
| Facility State: | CA |
| Facility Zip: | 950664768 |

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**L89** **TOSCO - FACILITY #6153** **LUST** **1000167422**
**ESE** **99 MOUNT HERMON RD** **HIST UST** **N/A**
**1/4-1/2** **SCOTTS VALLEY, CA 95066**
**0.353 mi.**
**1862 ft.** **Site 2 of 6 in cluster L**

**Relative:**
**Lower**

**Actual:**
**515 ft.**

LUST:

| | |
|---|---|
| Name: | TOSCO - FACILITY #6153 |
| Address: | 99 MOUNT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Lead Agency: | CENTRAL COAST RWQCB (REGION 3) |
| Case Type: | LUST Cleanup Site |
| Geo Track: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608700248 |
| Global Id: | T0608700248 |
| Latitude: | 37.0428679352616 |
| Longitude: | -122.025489807129 |
| Status: | Completed - Case Closed |
| Status Date: | 11/21/2017 |
| Case Worker: | WNL |
| RB Case Number: | 618 |
| Local Agency: | SANTA CRUZ COUNTY |
| File Location: | Not reported |
| Local Case Number: | Not reported |
| Potential Media Affect: | Aquifer used for drinking water supply |
| Potential Contaminants of Concern: | Gasoline |
| Site History: | Not reported |

**TOSCO - FACILITY #6153 (Continued)** **1000167422**

LUST:

| | |
|---|---|
| Global Id: | T0608700248 |
| Contact Type: | Local Agency Caseworker |
| Contact Name: | SCOTT CARSON |
| Organization Name: | SANTA CRUZ COUNTY |
| Address: | 701 Ocean Street, Room 312 |
| City: | SANTA CRUZ |
| Email: | scott.carson@co.santa-cruz.ca.us |
| Phone Number: | Not reported |

| | |
|---|---|
| Global Id: | T0608700248 |
| Contact Type: | Regional Board Caseworker |
| Contact Name: | WEI LIU |
| Organization Name: | CENTRAL COAST RWQCB (REGION 3) |
| Address: | 895 AEROVISTA PLACE, SUITE 101 |
| City: | SAN LUIS OBISPO |
| Email: | wei.liu@waterboards.ca.gov |
| Phone Number: | 8055493147 |

LUST:

| | |
|---|---|
| Global Id: | T0608700248 |
| Action Type: | RESPONSE |
| Date: | 12/30/2011 |
| Action: | Monitoring Report - Semi-Annually |

| | |
|---|---|
| Global Id: | T0608700248 |
| Action Type: | ENFORCEMENT |
| Date: | 01/20/2010 |
| Action: | Letter - Notice |

| | |
|---|---|
| Global Id: | T0608700248 |
| Action Type: | ENFORCEMENT |
| Date: | 05/17/2005 |
| Action: | Staff Letter |

| | |
|---|---|
| Global Id: | T0608700248 |
| Action Type: | RESPONSE |
| Date: | 01/30/2004 |
| Action: | Remedial Progress Report |

| | |
|---|---|
| Global Id: | T0608700248 |
| Action Type: | RESPONSE |
| Date: | 07/20/2004 |
| Action: | Monitoring Report - Quarterly |

| | |
|---|---|
| Global Id: | T0608700248 |
| Action Type: | RESPONSE |
| Date: | 03/01/2005 |
| Action: | Request for Closure |

| | |
|---|---|
| Global Id: | T0608700248 |
| Action Type: | RESPONSE |
| Date: | 10/30/2007 |
| Action: | Monitoring Report - Quarterly |

Global Id: T0608700248

**TOSCO - FACILITY #6153 (Continued)** **1000167422**

Action Type: RESPONSE
Date: 01/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 04/29/2004
Action: Remedial Progress Report

Global Id: T0608700248
Action Type: RESPONSE
Date: 10/20/2004
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 01/20/2006
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 04/20/2006
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 04/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 07/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 02/16/2007
Action: NPDES / WDR Reports

Global Id: T0608700248
Action Type: RESPONSE
Date: 06/30/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0608700248
Action Type: RESPONSE
Date: 12/30/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0608700248
Action Type: ENFORCEMENT
Date: 07/31/2003
Action: Staff Letter

Global Id: T0608700248
Action Type: RESPONSE
Date: 07/20/2003

**TOSCO - FACILITY #6153 (Continued)** **1000167422**

Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 04/20/2004
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 07/20/2005
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 07/20/2006
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 04/20/2007
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 07/20/2007
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 07/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 04/30/2005
Action: Remedial Progress Report

Global Id: T0608700248
Action Type: RESPONSE
Date: 10/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 01/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: ENFORCEMENT
Date: 07/22/2004
Action: Staff Letter

Global Id: T0608700248
Action Type: ENFORCEMENT
Date: 11/07/2002
Action: Waste Discharge Requirements

**TOSCO - FACILITY #6153 (Continued)** **1000167422**

Global Id: T0608700248
Action Type: ENFORCEMENT
Date: 03/04/2015
Action: Notification - Fee Title Owners Notice

Global Id: T0608700248
Action Type: RESPONSE
Date: 07/31/2003
Action: Remedial Progress Report

Global Id: T0608700248
Action Type: RESPONSE
Date: 10/20/2005
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 01/20/2005
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 01/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 04/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 07/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 01/20/2007
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 10/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 04/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 06/30/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0608700248
Action Type: ENFORCEMENT

**TOSCO - FACILITY #6153 (Continued)** **1000167422**

Date: 02/22/2017
Action: Staff Letter

Global Id: T0608700248
Action Type: RESPONSE
Date: 10/20/2007
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 01/20/2008
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 12/30/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0608700248
Action Type: ENFORCEMENT
Date: 11/21/2017
Action: Closure/No Further Action Letter

Global Id: T0608700248
Action Type: RESPONSE
Date: 04/20/2008
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 07/20/2008
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 06/30/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0608700248
Action Type: RESPONSE
Date: 12/30/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0608700248
Action Type: RESPONSE
Date: 01/30/2015
Action: Request for Closure - Regulator Responded

Global Id: T0608700248
Action Type: RESPONSE
Date: 10/15/2014
Action: Request for Closure - Regulator Responded

Global Id: T0608700248
Action Type: RESPONSE
Date: 07/14/2015
Action: Request for Closure - Regulator Responded

**TOSCO - FACILITY #6153 (Continued)** **1000167422**

Global Id: T0608700248
Action Type: RESPONSE
Date: 11/20/2015
Action: Monitoring Report - Other - Regulator Responded

Global Id: T0608700248
Action Type: Other
Date: 10/29/1986
Action: Leak Reported

Global Id: T0608700248
Action Type: RESPONSE
Date: 07/20/2002
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 04/20/2005
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 10/20/2006
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 11/30/2017
Action: Well Destruction Report

Global Id: T0608700248
Action Type: RESPONSE
Date: 01/31/2017
Action: Well Destruction Workplan - Regulator Responded

Global Id: T0608700248
Action Type: ENFORCEMENT
Date: 12/07/1994
Action: Staff Letter

Global Id: T0608700248
Action Type: RESPONSE
Date: 01/20/2009
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 04/20/2009
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 12/30/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0608700248
Action Type: RESPONSE

**TOSCO - FACILITY #6153 (Continued)** **1000167422**

Date: 10/20/2008
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 10/20/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0608700248
Action Type: RESPONSE
Date: 07/20/2009
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 06/30/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0608700248
Action Type: RESPONSE
Date: 10/20/2002
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 01/20/2003
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 10/20/2003
Action: Monitoring Report - Quarterly

Global Id: T0608700248
Action Type: RESPONSE
Date: 04/20/2004
Action: Remedial Progress Report

Global Id: T0608700248
Action Type: RESPONSE
Date: 04/20/2003
Action: Preliminary Site Assessment Workplan

Global Id: T0608700248
Action Type: RESPONSE
Date: 04/19/2004
Action: Remedial Progress Report

Global Id: T0608700248
Action Type: RESPONSE
Date: 07/30/2004
Action: Remedial Progress Report

Global Id: T0608700248
Action Type: RESPONSE
Date: 01/20/2004
Action: Monitoring Report - Quarterly

**TOSCO - FACILITY #6153 (Continued)** **1000167422**

Global Id: T0608700248
Action Type: RESPONSE
Date: 12/30/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0608700248
Action Type: RESPONSE
Date: 05/03/2015
Action: Correspondence

Global Id: T0608700248
Action Type: RESPONSE
Date: 07/08/2016
Action: Well Destruction Workplan - Regulator Responded

Global Id: T0608700248
Action Type: ENFORCEMENT
Date: 10/31/2013
Action: Staff Letter

Global Id: T0608700248
Action Type: ENFORCEMENT
Date: 01/02/2009
Action: File review

Global Id: T0608700248
Action Type: ENFORCEMENT
Date: 05/07/2009
Action: File review

Global Id: T0608700248
Action Type: ENFORCEMENT
Date: 10/29/2013
Action: Staff Letter

Global Id: T0608700248
Action Type: RESPONSE
Date: 08/01/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0608700248
Action Type: ENFORCEMENT
Date: 07/20/2009
Action: 13267 Requirement

LUST:
Global Id: T0608700248
Status: Open - Case Begin Date
Status Date: 10/29/1986

Global Id: T0608700248
Status: Open - Site Assessment
Status Date: 06/15/1987

Global Id: T0608700248
Status: Open - Remediation
Status Date: 07/07/1987

**TOSCO - FACILITY #6153 (Continued)** **1000167422**

Global Id: T0608700248
Status: Open - Site Assessment
Status Date: 10/01/1987

Global Id: T0608700248
Status: Open - Remediation
Status Date: 11/18/1998

Global Id: T0608700248
Status: Open - Site Assessment
Status Date: 04/28/2003

Global Id: T0608700248
Status: Open - Remediation
Status Date: 07/30/2003

Global Id: T0608700248
Status: Open - Remediation
Status Date: 01/30/2004

Global Id: T0608700248
Status: Open - Remediation
Status Date: 04/01/2004

Global Id: T0608700248
Status: Open - Remediation
Status Date: 04/29/2004

Global Id: T0608700248
Status: Open - Remediation
Status Date: 08/02/2004

Global Id: T0608700248
Status: Open - Remediation
Status Date: 05/02/2005

Global Id: T0608700248
Status: Open - Verification Monitoring
Status Date: 06/30/2011

Global Id: T0608700248
Status: Open - Eligible for Closure
Status Date: 05/19/2014

Global Id: T0608700248
Status: Completed - Case Closed
Status Date: 11/21/2017

HIST UST:
Name: UNION OIL SS# 6153
Address: 99 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95060
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000030773

**TOSCO - FACILITY #6153 (Continued)** **1000167422**

| | |
|---|---|
| Facility Type: | Gas Station |
| Other Type: | Not reported |
| Contact Name: | SCOTTS VALLEY UNION 76, INC. |
| Telephone: | 4084389906 |
| Owner Name: | UNION OIL CO. |
| Owner Address: | 1 CALIFORNIA ST. SUITE 2700 |
| Owner City,St,Zip: | SAN FRANCISCO, CA 94111 |
| Total Tanks: | 0004 |
| | |
| Tank Num: | 001 |
| Container Num: | 6153-1-1 |
| Year Installed: | 1969 |
| Tank Capacity: | 00010000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | UNLEADED |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Stock Inventor |
| | |
| Tank Num: | 001 |
| Container Num: | 6153-10-1 |
| Year Installed: | Not reported |
| Tank Capacity: | 00000000 |
| Tank Used for: | WASTE |
| Type of Fuel: | Not reported |
| Container Construction Thickness: | 6 |
| Leak Detection: | Visual |
| | |
| Tank Num: | 002 |
| Container Num: | 6153-2-1 |
| Year Installed: | 1969 |
| Tank Capacity: | 00010000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | PREMIUM |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Stock Inventor |
| | |
| Tank Num: | 003 |
| Container Num: | 6153-3-1 |
| Year Installed: | 1979 |
| Tank Capacity: | 00010000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | DIESEL |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Stock Inventor |
| | |
| Tank Num: | 004 |
| Container Num: | 6153-4-1 |
| Year Installed: | Not reported |
| Tank Capacity: | 00000550 |
| Tank Used for: | WASTE |
| Type of Fuel: | WASTE OIL |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Stock Inventor |

**L90** **UNOCAL SERVICE STATION #6153** **SWEEPS UST** **S103987172**
**ESE** **99 MT HERMON RD** **CUPA Listings** **N/A**
**1/4-1/2** **SCOTTS VALLEY, CA 95066** **HIST CORTESE**
**0.353 mi.**
**1862 ft.** **Site 3 of 6 in cluster L**

**Relative:** **Lower**

**Actual:** **515 ft.**

SWEEPS UST:

| | |
|---|---|
| Name: | UNOCAL SERVICE STATION #6153 |
| Address: | 99 MT HERMON RD |
| City: | SCOTTS VALLEY |
| Status: | Not reported |
| Comp Number: | 2423 |
| 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: | 44-054-002423-000001 |
| Tank Status: | Not reported |
| Capacity: | 10000 |
| Active Date: | Not reported |
| Tank Use: | M.V. FUEL |
| STG: | PRODUCT |
| Content: | REG UNLEADED |
| Number Of Tanks: | 4 |

| | |
|---|---|
| Name: | UNOCAL SERVICE STATION #6153 |
| Address: | 99 MT HERMON RD |
| City: | SCOTTS VALLEY |
| Status: | Not reported |
| Comp Number: | 2423 |
| 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: | 44-054-002423-000002 |
| 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: | UNOCAL SERVICE STATION #6153 |
| Address: | 99 MT HERMON RD |
| City: | SCOTTS VALLEY |
| Status: | Not reported |
| Comp Number: | 2423 |
| 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: | 44-054-002423-000003 |

**UNOCAL SERVICE STATION #6153 (Continued)** **S103987172**

| | |
|---|---|
| Tank Status: | Not reported |
| Capacity: | 550 |
| Active Date: | Not reported |
| Tank Use: | OIL |
| STG: | WASTE |
| Content: | WASTE OIL |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Name: | UNOCAL SERVICE STATION #6153 |
| Address: | 99 MT HERMON RD |
| City: | SCOTTS VALLEY |
| Status: | Not reported |
| Comp Number: | 2423 |
| 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: | 44-054-002423-000007 |
| Tank Status: | Not reported |
| Capacity: | 10000 |
| Active Date: | Not reported |
| Tank Use: | M.V. FUEL |
| STG: | PRODUCT |
| Content: | DIESEL |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Name: | UNOCAL SERVICE STATION #6153 |
| Address: | 99 MT HERMON RD |
| City: | SCOTTS VALLEY |
| Status: | Active |
| Comp Number: | 2423 |
| Number: | 1 |
| Board Of Equalization: | Not reported |
| Referral Date: | 06-02-93 |
| Action Date: | 06-04-93 |
| Created Date: | 07-07-92 |
| Owner Tank Id: | 6153-RU-1 |
| SWRCB Tank Id: | 44-054-002423-000004 |
| Tank Status: | A |
| Capacity: | 12000 |
| Active Date: | 07-07-92 |
| Tank Use: | M.V. FUEL |
| STG: | P |
| Content: | REG UNLEADED |
| Number Of Tanks: | 4 |

| | |
|---|---|
| Name: | UNOCAL SERVICE STATION #6153 |
| Address: | 99 MT HERMON RD |
| City: | SCOTTS VALLEY |
| Status: | Active |
| Comp Number: | 2423 |
| Number: | 1 |
| Board Of Equalization: | Not reported |
| Referral Date: | 06-02-93 |
| Action Date: | 06-04-93 |

**UNOCAL SERVICE STATION #6153 (Continued)** **S103987172**

Created Date: 07-07-92
Owner Tank Id: 6153-SU-1
SWRCB Tank Id: 44-054-002423-000005
Tank Status: A
Capacity: 12000
Active Date: 07-07-92
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: UNOCAL SERVICE STATION #6153
Address: 99 MT HERMON RD
City: SCOTTS VALLEY
Status: Active
Comp Number: 2423
Number: 1
Board Of Equalization: Not reported
Referral Date: 06-02-93
Action Date: 06-04-93
Created Date: 07-07-92
Owner Tank Id: 6153-WO-1
SWRCB Tank Id: 44-054-002423-000006
Tank Status: A
Capacity: 520
Active Date: 06-04-93
Tank Use: OIL
STG: W
Content: WASTE OIL
Number Of Tanks: Not reported

Name: UNOCAL SERVICE STATION #6153
Address: 99 MT HERMON RD
City: SCOTTS VALLEY
Status: Active
Comp Number: 2423
Number: 1
Board Of Equalization: Not reported
Referral Date: 06-02-93
Action Date: 06-04-93
Created Date: 07-07-92
Owner Tank Id: 6153-D-1
SWRCB Tank Id: 44-054-002423-000008
Tank Status: A
Capacity: 12000
Active Date: 06-04-93
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

CUPA SANTA CRUZ:
Name: SCOTTS VALLEY UNION 76
Address: 99 MT HERMON
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0002964
Cross Street: WHISPERING PINES

**UNOCAL SERVICE STATION #6153 (Continued)** **S103987172**

Description: HMMP STANDARD FORM QR 2

Name: SCOTTS VALLEY UNION 76
Address: 99 MT HERMON
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0002964
Cross Street: WHISPERING PINES
Description: HMMP STANDARD FORM FILING FEE

Name: SCOTTS VALLEY UNION 76
Address: 99 MT HERMON
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0002964
Cross Street: WHISPERING PINES
Description: HAZARDOUS WASTE GENERATOR (HMMP STD FORM)

Name: SCOTTS VALLEY UNION 76
Address: 99 MT HERMON
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0002964
Cross Street: WHISPERING PINES
Description: UNDERGROUND STORAGE TANK PROGRAM

Name: SCOTTS VALLEY UNION 76
Address: 99 MT HERMON
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0002964
Cross Street: WHISPERING PINES
Description: STATE UST SURCHARGE

Name: SCOTTS VALLEY UNION 76
Address: 99 MT HERMON
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0002964
Cross Street: WHISPERING PINES
Description: HMMP STANDARD FORM QR 3

HIST CORTESE:
edr_fname: UNOCAL STATION #6153
edr_fadd1: 99 MT HERMON
City,State,Zip: SCOTTS VALLEY, CA 95066
Region: CORTESE
Facility County Code: 44
Reg By: LTNKA
Reg Id: 618

edr_fname: SS #6153, SCOTTS VALLEY
edr_fadd1: 99 MT HERMON
City,State,Zip: SCOTTS VALLEY, CA 95066
Region: CORTESE
Facility County Code: 44
Reg By: WBC&D
Reg Id: 3 442039002

**M91** **SCOTTS VALLEY MIDDLE SCHO** **ENVIROSTOR** **1000422072**
**East** **8 BEAN CREEK** **LUST** **N/A**
**1/4-1/2** **SCOTTS VALLEY, CA 95066** **SCH**
**0.354 mi.** **HIST CORTESE**
**1871 ft.** **Site 1 of 2 in cluster M** **Notify 65**

**Relative: Higher**
**Actual: 548 ft.**

ENVIROSTOR:

| | |
|---|---|
| Name: | SCOTTS VALLEY MIDDLE SCHOOL RENOVATION |
| Address: | 8 BEAN CREEK ROAD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Facility ID: | 60002315 |
| Status: | Active |
| Status Date: | 03/07/2016 |
| Site Code: | 204283 |
| Site Type: | School Cleanup |
| Site Type Detailed: | School |
| Acres: | 8.5 |
| NPL: | NO |
| Regulatory Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Program Manager: | Not reported |
| Supervisor: | Jose Salcedo |
| Division Branch: | Northern California Schools & Santa Susana |
| Assembly: | , 29 |
| Senate: | , 17 |
| Special Program: | Not reported |
| Restricted Use: | NO |
| Site Mgmt Req: | NONE SPECIFIED |
| Funding: | School District |
| Latitude: | 37.04645 |
| Longitude: | -122.0234 |
| APN: | 022-561-03 |
| Past Use: | SCHOOL - MIDDLE, UNDERGROUND STORAGE TANKS, WASTE - SEWAGE TREATMENT PLANT, SCHOOL - MIDDLE, UNDERGROUND STORAGE TANKS, WASTE - SEWAGE TREATMENT PLANT |
| Potential COC: | Under Investigation Arsenic Chlordane Endrin Lead Polynuclear aromatic hydrocarbons (PAHs Tetrachloroethylene (PCE TPH-diesel TPH-gas TPH-MOTOR OIL |
| Confirmed COC: | 30001-NO 30004-NO 30010-NO 30013-NO 30019-NO 30022-NO 30024-NO 30025-NO 3002502-NO 31001-NO |
| Potential Description: | SOIL, SV, UE |
| Alias Name: | 022-561-03 |
| Alias Type: | APN |
| Alias Name: | 204283 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 60002315 |
| 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: | 04/19/2016 |
| Comments: | Not reported |

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Preliminary Endangerment Assessment Workplan |
| Completed Date: | 10/26/2016 |
| Comments: | Not reported |

**SCOTTS VALLEY MIDDLE SCHO (Continued)** **1000422072**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 02/16/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 05/02/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 02/23/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 07/10/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 05/04/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 07/11/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 04/12/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 05/17/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 05/17/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice

**SCOTTS VALLEY MIDDLE SCHO (Continued)** **1000422072**

Completed Date: 06/29/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 05/26/2017
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: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Action Completion Report
Schedule Due Date: 03/14/2018
Schedule Revised Date: 02/14/2019

LUST:
Name: SCOTTS VALLEY MIDDLE SCHOOL
Address: 8 BEAN CREEK RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Lead Agency: CENTRAL COAST RWQCB (REGION 3)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608700281
Global Id: T0608700281
Latitude: 37.0449887
Longitude: -122.0242366
Status: Completed - Case Closed
Status Date: 10/20/1993
Case Worker: Not reported
RB Case Number: 742
Local Agency: Not reported
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0608700281
Action Type: Other
Date: 12/21/1989
Action: Leak Reported

LUST:
Global Id: T0608700281
Status: Open - Case Begin Date
Status Date: 12/21/1989

Global Id: T0608700281
Status: Open - Verification Monitoring
Status Date: 01/01/1991

Global Id: T0608700281
Status: Completed - Case Closed

**SCOTTS VALLEY MIDDLE SCHO (Continued)** **1000422072**

Status Date: 10/20/1993

SCH:

| | |
|---|---|
| Name: | SCOTTS VALLEY MIDDLE SCHOOL RENOVATION |
| Address: | 8 BEAN CREEK ROAD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Facility ID: | 60002315 |
| Site Type: | School Cleanup |
| Site Type Detail: | School |
| Site Mgmt. Req.: | NONE SPECIFIED |
| Acres: | 8.5 |
| National Priorities List: | NO |
| Cleanup Oversight Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Lead Agency Description: | DTSC - Site Cleanup Program |
| Project Manager: | Not reported |
| Supervisor: | Jose Salcedo |
| Division Branch: | Northern California Schools & Santa Susana |
| Site Code: | 204283 |
| Assembly: | , 29 |
| Senate: | , 17 |
| Special Program Status: | Not reported |
| Status: | Active |
| Status Date: | 03/07/2016 |
| Restricted Use: | NO |
| Funding: | School District |
| Latitude: | 37.04645 |
| Longitude: | -122.0234 |
| APN: | 022-561-03 |
| Past Use: | SCHOOL - MIDDLE, UNDERGROUND STORAGE TANKS, WASTE - SEWAGE TREATMENT PLANT, SCHOOL - MIDDLE, UNDERGROUND STORAGE TANKS, WASTE - SEWAGE TREATMENT PLANT |
| Potential COC: | Under Investigation, Arsenic, Chlordane, Endrin, Lead, Polynuclear aromatic hydrocarbons (PAHs, Tetrachloroethylene (PCE, TPH-diesel, TPH-gas, TPH-MOTOR OIL |
| Confirmed COC: | 30001-NO, 30004-NO, 30010-NO, 30013-NO, 30019-NO, 30022-NO, 30024-NO, 30025-NO, 3002502-NO, 31001-NO |
| Potential Description: | SOIL, SV, UE |
| Alias Name: | 022-561-03 |
| Alias Type: | APN |
| Alias Name: | 204283 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 60002315 |
| 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: | 04/19/2016 |
| Comments: | Not reported |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Preliminary Endangerment Assessment Workplan |

**SCOTTS VALLEY MIDDLE SCHO (Continued)** **1000422072**

Completed Date: 10/26/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 02/16/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 05/02/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 02/23/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 07/10/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 05/04/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 07/11/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 04/12/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 05/17/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 05/17/2017
Comments: Not reported

**SCOTTS VALLEY MIDDLE SCHO (Continued)** **1000422072**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 06/29/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 05/26/2017
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: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Action Completion Report
Schedule Due Date: 03/14/2018
Schedule Revised Date: 02/14/2019

HIST CORTESE:
edr_fname: SCOTTS VALLEY MIDDLE SCHO
edr_fadd1: 8 BEAN CREEK
City,State,Zip: SCOTTS VALLEY, CA 95066
Region: CORTESE
Facility County Code: 44
Reg By: LTNKA
Reg Id: 742

NOTIFY 65:
Name: SCOTTS VALLEY MIDDLE SCHOOL
Address: 8 BEAN CREEK
City,State,Zip: SCOTTS VALLEY, CA 93117
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

---

**M92** **SCOTTS VALLEY MIDDLE SCHOOL** **SEMS-ARCHIVE** **1003878798**
**East** **8 BEAN CREEK RD** **LUST** **CAD980893358**
**1/4-1/2** **SCOTTS VALLEY, CA 95066** **Cortese**
**0.354 mi.** **HAZNET**
**1871 ft.** **Site 2 of 2 in cluster M** **NPDES**
**CERS**
**Relative:** **HWTS**
**Higher**

**Actual:** SEMS Archive:
**548 ft.** Site ID: 0902231
EPA ID: CAD980893358
Name: SCOTTS VALLEY MIDDLE SCHOOL

**SCOTTS VALLEY MIDDLE SCHOOL (Continued)** **1003878798**

Address: 8 BEAN CREEK RD
Address 2: Not reported
City,State,Zip: SCOTTS VALLEY, CA 95066
Cong District: 16
FIPS Code: 06087
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: 0902231
EPA ID: CAD980893358
Site Name: SCOTTS VALLEY MIDDLE SCHOOL
NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 1994-06-24 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 09
Site ID: 0902231
EPA ID: CAD980893358
Site Name: SCOTTS VALLEY MIDDLE SCHOOL
NPL: N
FF: N
OU: 00
Action Code: SI
Action Name: SI
SEQ: 2
Start Date: 1985-10-01 05:00:00
Finish Date: 1985-10-01 05:00:00
Qual: N
Current Action Lead: EPA Perf

Region: 09
Site ID: 0902231
EPA ID: CAD980893358
Site Name: SCOTTS VALLEY MIDDLE SCHOOL
NPL: N
FF: N
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: Not reported
Finish Date: 1985-10-01 05:00:00
Qual: H
Current Action Lead: EPA Perf

Region: 09
Site ID: 0902231
EPA ID: CAD980893358

**SCOTTS VALLEY MIDDLE SCHOOL (Continued)** **1003878798**

| | |
|---|---|
| Site Name: | SCOTTS VALLEY MIDDLE SCHOOL |
| NPL: | N |
| FF: | N |
| OU: | 00 |
| Action Code: | DS |
| Action Name: | DISCVRY |
| SEQ: | 1 |
| Start Date: | 1985-07-01 05:00:00 |
| Finish Date: | 1985-07-01 05:00:00 |
| Qual: | Not reported |
| Current Action Lead: | EPA Perf |
| | |
| Region: | 09 |
| Site ID: | 0902231 |
| EPA ID: | CAD980893358 |
| Site Name: | SCOTTS VALLEY MIDDLE SCHOOL |
| NPL: | N |
| FF: | N |
| OU: | 00 |
| Action Code: | SI |
| Action Name: | SI |
| SEQ: | 1 |
| Start Date: | Not reported |
| Finish Date: | 1989-12-07 05:00:00 |
| Qual: | N |
| Current Action Lead: | EPA Perf |

LUST REG 3:

| | |
|---|---|
| Region: | 3 |
| Regional Board: | Central Coast Region |
| Facility County: | Santa Cruz |
| Global ID: | T0608700281 |
| Status: | Case Closed |
| Case Number: | 742 |
| Local Case Num: | Not reported |
| Case Type: | S |
| Substance: | Gasoline |
| Quantity: | Not reported |
| Abatement Method: | Other |
| Leak Source: | UNK |
| Leak Cause: | Corrosion |
| How Stopped: | Not reported |
| How Discovered: | Tank Closure |
| Release Date: | 12/21/1989 |
| Discovered Date: | Not reported |
| Enter Date: | 01/10/1990 |
| Stop Date: | Not reported |
| Review Date: | 07/12/2002 |
| Enforce Date: | Not reported |
| Close Date: | 10/20/93 |
| Enforcement Type: | Not reported |
| Responsible Party: | KAREN DAROCY |
| RP Address: | 4444 SCOTTS VALLEY DRIVE #58 |
| Contact: | Not reported |
| Cross Street: | SCOTTS VALLEY DRIVE |
| Local Agency: | 44000 |

**SCOTTS VALLEY MIDDLE SCHOOL (Continued)** **1003878798**

Lead Agency: Regional Board
Staff Initials: HDC
Confirm Leak: Not reported
Workplan: Not reported
Prelim Assess: Not reported
Pollution Char: / /
Remedial Plan: Not reported
Remedial Action: Not reported
Monitoring: 01/01/1991
Pilot Program: UST
Interim Action: 0
Funding: Not reported
MTBE Class: *
Max MTBE Grnd Wtr: Not reported
Max MTBE Soil: Not reported
Max MTBE Data: / /
MTBE Tested: NT
Lat/Long: 37.0442976 / -122.0235664
Soil Qualifier: Not reported
Grnd Wtr Qualifier: Not reported
Mtbe Concentratn: 0
Mtbe Fuel: 1
Org Name: Not reported
Basin Plan: 4.12
Beneficial: Not reported
Priority: 4
UST Cleanup Fund ID: Not reported
Suspended: Not reported
Operator: Not reported
Water System: SCOTTS VALLEY WATER DISTRICT
Well Name: HIDDEN OAKS WELL GAC EFFLUENT - INACTIVE
Distance From Well: 0
Assigned Name: E44/013-HOGACTR
Summary: TANKS REMOVED FROM SITE. GROUNDWATER QUALITY IN SHALLOW WELLS NEAR TANK PIT AREA INDICATE NO PETROLEUM PRODUCT CONTAMINATION. HOWEVER, MUNICIPAL WELLS IN AREA HAVE BENZENE AND 1,2 DCA IN EXCESS OF DHS MCL'S.

CORTESE:
Name: SCOTTS VALLEY MIDDLE SCHOOL
Address: 8 BEAN CREEK RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0608700281
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

**SCOTTS VALLEY MIDDLE SCHOOL (Continued)** **1003878798**

| | |
|---|---|
| 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 |

HAZNET:

| | |
|---|---|
| Name: | SCOTTS VALLEY MIDDLE SCHOOL |
| Address: | 8 BEAN CREEK ROAD |
| Address 2: | Not reported |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Contact: | MIKE SMITH |
| Telephone: | 8315666576 |
| Mailing Name: | Not reported |
| Mailing Address: | 4444 SCOTTS VALLEY DRIVE STE 5B |
| | |
| Year: | 2018 |
| Gepaid: | CAC002975996 |
| TSD EPA ID: | CAT000646117 |
| CA Waste Code: | 611 - Contaminated soil from site clean-up |
| Disposal Method: | H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| Tons: | 25.38000 |
| | |
| Year: | 2018 |
| Gepaid: | CAC002952022 |
| 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: | 6.44000 |

NPDES:

| | |
|---|---|
| Name: | SCOTTS VALLEY MIDDLE SCHOOL |
| Address: | 8 BEAN CREEK ROAD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| 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: | 3 44C379626 |
| 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 |

**SCOTTS VALLEY MIDDLE SCHOOL (Continued)** **1003878798**

| | |
|---|---|
| Discharge Zip: | Not reported |
| Status: | Active |
| Status Date: | 04/26/2017 |
| Operator Name: | Scotts Valley Unified School District |
| Operator Address: | 4444 Scotts Valley Dr Ste 5B |
| Operator City: | Scotts Valley |
| Operator State: | California |
| Operator Zip: | 95066 |

NPDES as of 03/2018:

| | |
|---|---|
| NPDES Number: | CAS000002 |
| Status: | Active |
| Agency Number: | 0 |
| Region: | 3 |
| Regulatory Measure ID: | 485696 |
| Order Number: | 2009-0009-DWQ |
| Regulatory Measure Type: | Enrollee |
| Place ID: | Not reported |
| WDID: | 3 44C379626 |
| Program Type: | Construction |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | 04/26/2017 |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Scotts Valley Unified School District |
| Discharge Address: | 4444 Scotts Valley Dr Ste 5B |
| Discharge City: | Scotts Valley |
| Discharge State: | California |
| Discharge Zip: | 95066 |
| Received Date: | Not reported |
| Processed Date: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Place Size: | Not reported |
| Place Size Unit: | Not reported |
| Contact: | Not reported |
| Contact Title: | Not reported |
| Contact Phone: | Not reported |
| Contact Phone Ext: | Not reported |
| Contact Email: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |
| Operator Contact: | Not reported |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | Not reported |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | Not reported |
| Operator Type: | Not reported |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | Not reported |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |

**SCOTTS VALLEY MIDDLE SCHOOL (Continued)** **1003878798**

| | |
|---|---|
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Not reported |
| Certifier Title: | Not reported |
| Certification Date: | Not reported |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |
| | |
| NPDES Number: | Not reported |
| Status: | Not reported |
| Agency Number: | Not reported |
| Region: | 3 |
| Regulatory Measure ID: | 485696 |
| Order Number: | Not reported |
| Regulatory Measure Type: | Construction |
| Place ID: | Not reported |
| WDID: | 3 44C379626 |
| Program Type: | Not reported |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Not reported |
| Discharge Address: | Not reported |
| Discharge City: | Not reported |
| Discharge State: | Not reported |
| Discharge Zip: | Not reported |
| Received Date: | 04/24/2017 |
| Processed Date: | 04/26/2017 |
| Status: | Active |
| Status Date: | 04/26/2017 |
| Place Size: | 8.5 |
| Place Size Unit: | Acres |
| Contact: | Rudolph Ramirez |
| Contact Title: | Chief Business Official |
| Contact Phone: | 831-438-1820 |
| Contact Phone Ext: | 109 |

**SCOTTS VALLEY MIDDLE SCHOOL (Continued)** **1003878798**

| | |
|---|---|
| Contact Email: | rramirez@scottsvalleyusd.org |
| Operator Name: | Scotts Valley Unified School District |
| Operator Address: | 4444 Scotts Valley Dr Ste 5B |
| Operator City: | Scotts Valley |
| Operator State: | California |
| Operator Zip: | 95066 |
| Operator Contact: | Rudolph Ramirez |
| Operator Contact Title: | Chief Business Official |
| Operator Contact Phone: | 831-438-1820 |
| Operator Contact Phone Ext: | 109 |
| Operator Contact Email: | rramirez@scottsvalleyusd.org |
| Operator Type: | State Agency |
| Developer: | Scotts Valley Unified School District |
| Developer Address: | 4444 Scotts Valley Dr Ste 5B |
| Developer City: | Scotts Valley |
| Developer State: | California |
| Developer Zip: | 95066 |
| Developer Contact: | Rudolph Ramirez |
| Developer Contact Title: | Chief Business Official |
| Constype Linear Utility Ind: | N |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | N |
| Constype Below Ground Ind: | N |
| Constype Cable Line Ind: | N |
| Constype Comm Line Ind: | N |
| Constype Commertial Ind: | Y |
| Constype Electrical Line Ind: | N |
| Constype Gas Line Ind: | N |
| Constype Industrial Ind: | N |
| Constype Other Description: | Not reported |
| Constype Other Ind: | N |
| Constype Recons Ind: | N |
| Constype Residential Ind: | N |
| Constype Transport Ind: | N |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | N |
| Constype Water Sewer Ind: | N |
| Dir Discharge Uswater Ind: | N |
| Receiving Water Name: | Not reported |
| Certifier: | Rudolph Ramirez |
| Certifier Title: | Chief Business Official |
| Certification Date: | 24-APR-17 |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |

| | |
|---|---|
| Name: | SCOTTS VALLEY MIDDLE SCHOOL |
| Address: | 8 BEAN CREEK ROAD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Facility Status: | Active |
| NPDES Number: | CAS000002 |
| Region: | 3 |
| Agency Number: | 0 |
| Regulatory Measure ID: | 485696 |
| Place ID: | Not reported |

**SCOTTS VALLEY MIDDLE SCHOOL (Continued)** **1003878798**

| | |
|---|---|
| Order Number: | 2009-0009-DWQ |
| WDID: | 3 44C379626 |
| Regulatory Measure Type: | Enrollee |
| Program Type: | Construction |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | 04/26/2017 |
| Termination Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Discharge Address: | 4444 Scotts Valley Dr Ste 5B |
| Discharge Name: | Scotts Valley Unified School District |
| Discharge City: | Scotts Valley |
| Discharge State: | California |
| Discharge Zip: | 95066 |
| Status: | Not reported |
| Status Date: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |

NPDES as of 03/2018:

| | |
|---|---|
| NPDES Number: | CAS000002 |
| Status: | Active |
| Agency Number: | 0 |
| Region: | 3 |
| Regulatory Measure ID: | 485696 |
| Order Number: | 2009-0009-DWQ |
| Regulatory Measure Type: | Enrollee |
| Place ID: | Not reported |
| WDID: | 3 44C379626 |
| Program Type: | Construction |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | 04/26/2017 |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Scotts Valley Unified School District |
| Discharge Address: | 4444 Scotts Valley Dr Ste 5B |
| Discharge City: | Scotts Valley |
| Discharge State: | California |
| Discharge Zip: | 95066 |
| Received Date: | Not reported |
| Processed Date: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Place Size: | Not reported |
| Place Size Unit: | Not reported |
| Contact: | Not reported |
| Contact Title: | Not reported |
| Contact Phone: | Not reported |
| Contact Phone Ext: | Not reported |
| Contact Email: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |
| Operator Contact: | Not reported |

**SCOTTS VALLEY MIDDLE SCHOOL (Continued)** **1003878798**

| | |
|---|---|
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | Not reported |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | Not reported |
| Operator Type: | Not reported |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | Not reported |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Not reported |
| Certifier Title: | Not reported |
| Certification Date: | Not reported |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |
| | |
| NPDES Number: | Not reported |
| Status: | Not reported |
| Agency Number: | Not reported |
| Region: | 3 |
| Regulatory Measure ID: | 485696 |
| Order Number: | Not reported |
| Regulatory Measure Type: | Construction |
| Place ID: | Not reported |
| WDID: | 3 44C379626 |
| Program Type: | Not reported |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Not reported |
| Discharge Address: | Not reported |
| Discharge City: | Not reported |

**SCOTTS VALLEY MIDDLE SCHOOL (Continued)** **1003878798**

| | |
|---|---|
| Discharge State: | Not reported |
| Discharge Zip: | Not reported |
| Received Date: | 04/24/2017 |
| Processed Date: | 04/26/2017 |
| Status: | Active |
| Status Date: | 04/26/2017 |
| Place Size: | 8.5 |
| Place Size Unit: | Acres |
| Contact: | Rudolph Ramirez |
| Contact Title: | Chief Business Official |
| Contact Phone: | 831-438-1820 |
| Contact Phone Ext: | 109 |
| Contact Email: | rramirez@scottsvalleyusd.org |
| Operator Name: | Scotts Valley Unified School District |
| Operator Address: | 4444 Scotts Valley Dr Ste 5B |
| Operator City: | Scotts Valley |
| Operator State: | California |
| Operator Zip: | 95066 |
| Operator Contact: | Rudolph Ramirez |
| Operator Contact Title: | Chief Business Official |
| Operator Contact Phone: | 831-438-1820 |
| Operator Contact Phone Ext: | 109 |
| Operator Contact Email: | rramirez@scottsvalleyusd.org |
| Operator Type: | State Agency |
| Developer: | Scotts Valley Unified School District |
| Developer Address: | 4444 Scotts Valley Dr Ste 5B |
| Developer City: | Scotts Valley |
| Developer State: | California |
| Developer Zip: | 95066 |
| Developer Contact: | Rudolph Ramirez |
| Developer Contact Title: | Chief Business Official |
| Constype Linear Utility Ind: | N |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | N |
| Constype Below Ground Ind: | N |
| Constype Cable Line Ind: | N |
| Constype Comm Line Ind: | N |
| Constype Commertial Ind: | Y |
| Constype Electrical Line Ind: | N |
| Constype Gas Line Ind: | N |
| Constype Industrial Ind: | N |
| Constype Other Description: | Not reported |
| Constype Other Ind: | N |
| Constype Recons Ind: | N |
| Constype Residential Ind: | N |
| Constype Transport Ind: | N |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | N |
| Constype Water Sewer Ind: | N |
| Dir Discharge Uswater Ind: | N |
| Receiving Water Name: | Not reported |
| Certifier: | Rudolph Ramirez |
| Certifier Title: | Chief Business Official |
| Certification Date: | 24-APR-17 |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |

**SCOTTS VALLEY MIDDLE SCHOOL (Continued)** **1003878798**

Tertiary Sic: Not reported

CERS:
Name: SCOTTS VALLEY MIDDLE SCHOOL
Address: 8 BEAN CREEK RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Site ID: 246437
CERS ID: T0608700281
CERS Description: Leaking Underground Storage Tank Cleanup Site

HWTS:
Name: SCOTTS VALLEY MIDDLE SCHOOL
Address: 8 BEAN CREEK ROAD
Address 2: Not reported
City,State,Zip: SCOTTS VALLEY, CA 95066
EPA ID: CAC002975996
Inactive Date: 11/14/2018
Create Date: 08/15/2018
Last Act Date: 11/15/2018
Mailing Name: Not reported
Mailing Address: 4444 SCOTTS VALLEY DRIVE STE 5B
Mailing Address 2: Not reported
Mailing City,State,Zip: SCOTTS VALLEY, CA 95066
Owner Name: MIKE SMITH
Owner Address: 4444 SCOTTS VALLEY DRIVE STE 5B
Owner Address 2: Not reported
Owner City,State,Zip: SCOTTS VALLEY, CA 95066
Contact Name: MIKE SMITH
Contact Address: 4444 SCOTTS VALLEY DRIVE STE 5B
Contact Address 2: Not reported
City,State,Zip: SCOTTS VALLEY, CA 95066

NAICS:
EPA ID: CAC002975996
Create Date: 2018-08-15 15:47:19.337
NAICS Code: 611110
NAICS Description: Elementary and Secondary Schools
Issued EPA ID Date: 2018-08-15 15:47:19.33700
Inactive Date: 2018-11-14 15:47:19.33700
Facility Name: SCOTTS VALLEY MIDDLE SCHOOL
Facility Address: 8 BEAN CREEK ROAD
Facility Address 2: Not reported
Facility City: SCOTTS VALLEY
Facility County: Not reported
Facility State: CA
Facility Zip: 95066

Name: SCOTTS VALLEY MIDDLE SCHOOL
Address: 8 BEAN CREEK ROAD
Address 2: Not reported
City,State,Zip: SCOTTS VALLEY, CA 95066
EPA ID: CAC002952022
Inactive Date: 06/11/2018
Create Date: 03/09/2018
Last Act Date: 06/11/2018

**SCOTTS VALLEY MIDDLE SCHOOL (Continued)** **1003878798**

| | |
|---|---|
| Mailing Name: | Not reported |
| Mailing Address: | 4444 SCOTTS VALLEY DRIVE STE 5B |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Owner Name: | SCOTTS VALLEY UNIFIED SCHOOL DIST. |
| Owner Address: | 4444 SCOTTS VALLEY DRIVE STE 5B |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Contact Name: | TJ GUNTER |
| Contact Address: | 4444 SCOTTS VALLEY DRIVE STE 5B |
| Contact Address 2: | Not reported |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |

---

**N93** **440 KINGS VILLAGE ROAD** **CPS-SLIC** **S101625362**
**NNE** **440 KINGS VILLAGE ROAD** **SWEEPS UST** **N/A**
**1/4-1/2** **SANTA CRUZ, CA 95066** **CA FID UST**
**0.359 mi.** **Cortese**
**1897 ft.** **Site 1 of 3 in cluster N** **CUPA Listings**
**CERS**

**Relative:**
**Lower**

**Actual:**
**414 ft.**

CPS-SLIC:

| | |
|---|---|
| Name: | WATKINS-JOHNSON SUPERFUND SITE |
| Address: | 440 KINGS VILLAGE ROAD |
| City,State,Zip: | SCOTTS VALLEY, CA |
| Region: | STATE |
| **Facility Status:** | **Open - Remediation** |
| Status Date: | 06/03/2019 |
| Global Id: | SLT3S5581367 |
| Lead Agency: | CENTRAL COAST RWQCB (REGION 3) |
| Lead Agency Case Number: | Not reported |
| Latitude: | 37.0523686506417 |
| Longitude: | -122.029759883881 |
| Case Type: | Cleanup Program Site |
| Case Worker: | DRN |
| Local Agency: | SANTA CRUZ COUNTY |
| RB Case Number: | S23747 |
| File Location: | Not reported |
| Potential Media Affected: | Other Groundwater (uses other than drinking water), Well used for drinking water supply |
| Potential Contaminants of Concern: | Not reported |
| Site History: | Not reported |

Click here to access the California GeoTracker records for this facility:

SWEEPS UST:

| | |
|---|---|
| Name: | STEWART DIVISION |
| Address: | 440 KINGS VILLAGE RD |
| City: | SCOTTS VALLEY |
| Status: | Not reported |
| Comp Number: | 9925 |
| 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: | 44-054-009925-000001 |

**440 KINGS VILLAGE ROAD (Continued)** **S101625362**

Tank Status: Not reported
Capacity: 1
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: 1

CA FID UST:
Facility ID: 44001465
Regulated By: UTNKI
Regulated ID: 00009925
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4084382100
Mail To: Not reported
Mailing Address: 440 KINGS VILLAGE RD
Mailing Address 2: Not reported
Mailing City,St,Zip: SCOTTS VALLEY 95066
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

CORTESE:
Name: 440 KINGS VILLAGE ROAD
Address: 440 KINGS VILLAGE ROAD
City,State,Zip: SANTA CRUZ, CA 95066
Region: CORTESE
Envirostor Id: Not reported
Global ID: Not reported
Site/Facility Type: Not reported
Cleanup Status: Not reported
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: CORTESE
Order No: R3-2002-0002
Waste Discharge System No: Not reported
Effective Date: 03/22/2002
Region 2: 3
WID Id: 3 442000003
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Cease Desist Orders & Cleanup Abatement Orders

CUPA SANTA CRUZ:
Name: 440 KINGS VILLAGE LLC
Address: 440 KINGS VILLAGE RD

**440 KINGS VILLAGE ROAD (Continued)** **S101625362**

City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0007654
Cross Street: Not reported
Description: HMMP STANDARD FORM FILING FEE

Name: 440 KINGS VILLAGE LLC
Address: 440 KINGS VILLAGE RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0007654
Cross Street: Not reported
Description: HMMP STANDARD FORM QR 2

CERS:
Name: 440 KINGS VILLAGE LLC
Address: 440 KINGS VILLAGE RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Site ID: 374671
CERS ID: 10152693
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 374671
Site Name: 440 Kings Village LLC
Violation Date: 03-20-2015
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 11/22/2015.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 374671
Site Name: 440 Kings Village LLC
Violation Date: 10-26-2007
Citation: HSC 6.67 Multiple Sections - California Health and Safety Code, Chapter 6.67, Section(s) Multiple Sections
Violation Description: RCRA Large Quantity Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 03/19/2008. Compliance documented during re-inspection.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 374671
Site Name: 440 Kings Village LLC
Violation Date: 03-25-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 04/27/2016. Emergency Response/Contingency Plan Has not been submitted in CERS. Prepare the Emergency Response/Contingency Plan which can be found as a template and submit

**440 KINGS VILLAGE ROAD (Continued)** **S101625362**

in CERS.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 374671
Site Name: 440 Kings Village LLC
Violation Date: 03-19-2008
Citation: HSC 6.67 Multiple Sections - California Health and Safety Code, Chapter 6.67, Section(s) Multiple Sections
Violation Description: RCRA Large Quantity Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 10/14/2008.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 374671
Site Name: 440 Kings Village LLC
Violation Date: 03-20-2015
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 04/27/2016.
Violation Division: Santa Cruz County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-16-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Mr. Mark Failor, Property Manager.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-17-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspection authorized by Mark Failor, Property Manager.
Eval Division: Santa Cruz County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-19-2008
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Inspector Name: Jose De Anda
Eval Division: Santa Cruz County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

**440 KINGS VILLAGE ROAD (Continued)** **S101625362**

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 03-20-2015 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 03-25-2016 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Inspection conducted accompanied by Mark Failor, Property Manager. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 04-12-2019 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Inspectin authorized by Mr. Mark Failor, Propery Manager. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 10-14-2008 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Inspector Name: Jose DeAnda; No Violations. All violations from previous inspection were corrected. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 10-14-2008 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Inspector Name: Jose DeAnda; No Violations. All violations from previous inspection were corrected. |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HWLQG |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 10-26-2007 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Inspector Name: Jose De Anda |
| Eval Division: | Santa Cruz County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |

**440 KINGS VILLAGE ROAD (Continued)** **S101625362**

Eval Date: 10-26-2007
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Inspector Name: Jose De Anda
Eval Division: Santa Cruz County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Enforcement Action:
Site ID: 374671
Site Name: 440 Kings Village LLC
Site Address: 440 KINGS VILLAGE RD
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 03-20-2015
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 Cruz County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 374671
Site Name: 440 Kings Village LLC
Site Address: 440 KINGS VILLAGE RD
Site City: SCOTTS VALLEY
Site Zip: 95066
Enf Action Date: 03-25-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Santa Cruz County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:
Site ID: 374671
Facility Name: 440 Kings Village LLC
Env Int Type Code: HMBP
Program ID: 10152693
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 37.052200
Longitude: -122.030190

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Santa Cruz County Environmental Health
Entity Title: Not reported
Affiliation Address: 701 Ocean Boulevard, Suite 312
Affiliation City: Santa Cruz
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95060
Affiliation Phone: (831) 454-2022

**440 KINGS VILLAGE ROAD (Continued)** **S101625362**

| | |
|---|---|
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | 4375 Capitola Road Suite C |
| Affiliation City: | Capitola |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95010 |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Mark Failor |
| Entity Title: | Property Manager |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | 440 Kings Village LLC |
| Entity Title: | Not reported |
| Affiliation Address: | 4375 Capitola Rd Suite C |
| Affiliation City: | Capitola |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 95010 |
| Affiliation Phone: | (831) 419-0334 |

| | |
|---|---|
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | 440 Kings Village LLC |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | Mark Failor |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | Mark Failor |
| Entity Title: | Not reported |
| Affiliation Address: | 4375 Capitola Road Suite C |
| Affiliation City: | Capitola |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |

**440 KINGS VILLAGE ROAD (Continued)** **S101625362**

| | |
|---|---|
| Affiliation Zip: | 95010 |
| Affiliation Phone: | Not reported |
| Affiliation Type Desc: | Operator |
| Entity Name: | Mark Failor |
| 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: | (831) 419-0334 |
| Affiliation Type Desc: | Property Owner |
| Entity Name: | 440 Kings Village LLC |
| Entity Title: | Not reported |
| Affiliation Address: | 4375 Capitola Road Suite C |
| Affiliation City: | Capitola |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 95010 |
| Affiliation Phone: | (831) 419-0334 |

---

**N94** **WATKINS JOHNSON CO (STEWART DIV)** **CPS-SLIC** **S101482428**
**NNE** **440 KINGS VILLAGE ROAD** **HIST Cal-Sites** **N/A**
**1/4-1/2** **SCOTTS VALLEY, CA 95066** **EMI**
**0.359 mi.**
**1897 ft.** **Site 2 of 3 in cluster N**

**Relative:** **Lower**
**Actual:** **414 ft.**

SLIC REG 3:

| | |
|---|---|
| Name: | WATKINS-JOHNSON |
| Address: | 440 KINGS VILLAGE ROAD |
| City: | SCOTTS VALLEY |
| Region: | 3 |
| Leak Site Cross Street: | Not reported |
| Regional Board Case#: | S23747 |
| Entered Into Database: | Not reported |
| Discovered: | UNK |
| RB Case In: | SILICON VALLEY GROUP |
| Responsible Party: | JOHN AVEGGIO |
| RP Contact: | Not reported |
| RP Phone: | Not reported |
| RP Number: | Not reported |
| RP Address: | 3333 HILLVIEW AVE |
| RP City,St,Zip: | PALO ALTO, CA 94304 |
| Date First Reported: | Not reported |
| Lead Agency: | Regional Board |
| Program Type: | SLIC |
| Facility Status: | Remedial Action Plan Underway/Ongoing |
| Case Type: | O, W |
| Case Type Undetermined: | No |
| Case Type Soil Impacted: | No |
| Case Type Surface Water: | No |
| Case Type Drinkin Water Well: | Yes |
| Case Type Drinking Water Aqfr: | No |
| Case Type Other Grnd Wtr: | Yes |
| PCA: | 2030028 |

**WATKINS JOHNSON CO (STEWART DIV) (Continued)** **S101482428**

Calsite:

| | |
|---|---|
| Name: | WATKINS JOHNSON CO (STEWART DIV) |
| Address: | 440 KINGS VILLAGE ROAD |
| City: | SCOTTS VALLEY |
| Region: | BERKELEY |
| Facility ID: | 44360011 |
| Facility Type: | NPRP |
| Type: | NPL SITE, RP-FUNDED |
| Branch: | NC |
| Branch Name: | NORTH COAST |
| File Name: | Not reported |
| State Senate District: | 06261997 |
| Status: | CERTIFIED OPERATION AND MAINTENANCE, ALL PLANNED ACTIVITIES IMPLEMENTED, REMEDIATION CONTINUES |
| Status Name: | CERTIFIED / OPERATION & MAINTENANCE |
| Lead Agency: | ENVIRONMENTAL PROTECTION AGENCY |
| NPL: | Listed |
| SIC Code: | 36 |
| SIC Name: | MANU - ELECTRONIC & OTHER ELECTRIC EQUIP |
| Access: | Not reported |
| Cortese: | Not reported |
| Hazardous Ranking Score: | Not reported |
| Date Site Hazard Ranked: | Not reported |
| Groundwater Contamination: | Confirmed |
| Staff Member Responsible for Site: | PLEE1 |
| Supervisor Responsible for Site: | Not reported |
| Region Water Control Board: | CC |
| Region Water Control Board Name: | CENTRAL COAST |
| Lat/Long Direction: | Not reported |
| Lat/Long (dms): | 0 0 0 / 0 0 0 |
| Lat/long Method: | Not reported |
| Lat/Long Description: | Not reported |
| State Assembly District Code: | 27 |
| State Senate District Code: | 15 |
| Facility ID: | 44360011 |
| Activity: | PPP |
| Activity Name: | PUBLIC PARTICIPATION PLAN |
| AWP Code: | Not reported |
| Proposed Budget: | 0 |
| AWP Completion Date: | Not reported |
| Revised Due Date: | Not reported |
| Comments Date: | 07301987 |
| Est Person-Yrs to complete: | 0 |
| Estimated Size: | Not reported |
| Request to Delete Activity: | Not reported |
| Activity Status: | COM |
| Definition of Status: | CERTIFIED / OPERATION & MAINTENANCE |
| Liquids Removed (Gals): | 0 |
| Liquids Treated (Gals): | 0 |
| Action Included Capping: | Not reported |
| Well Decommissioned: | Not reported |
| Action Included Fencing: | Not reported |
| Removal Action Certification: | Not reported |
| Activity Comments: | Not reported |
| For Commercial Reuse: | 0 |
| For Industrial Reuse: | 0 |
| For Residential Reuse: | 0 |

**WATKINS JOHNSON CO (STEWART DIV) (Continued)** **S101482428**

| | |
|---|---|
| Unknown Type: | 0 |
| Facility ID: | 44360011 |
| Activity: | ORDER |
| Activity Name: | I/SE, IORSE, FFA, FFSRA, VCA, EA |
| AWP Code: | CNSNT |
| Proposed Budget: | 0 |
| AWP Completion Date: | Not reported |
| Revised Due Date: | Not reported |
| Comments Date: | 09211987 |
| Est Person-Yrs to complete: | 0 |
| Estimated Size: | Not reported |
| Request to Delete Activity: | Not reported |
| Activity Status: | COM |
| Definition of Status: | CERTIFIED / OPERATION & MAINTENANCE |
| Liquids Removed (Gals): | 0 |
| Liquids Treated (Gals): | 0 |
| Action Included Capping: | Not reported |
| Well Decommissioned: | Not reported |
| Action Included Fencing: | Not reported |
| Removal Action Certification: | Not reported |
| Activity Comments: | Not reported |
| For Commercial Reuse: | 0 |
| For Industrial Reuse: | 0 |
| For Residential Reuse: | 0 |
| Unknown Type: | 0 |
| Facility ID: | 44360011 |
| Activity: | RIFS |
| Activity Name: | REMEDIAL INVESTIGATION / FEASIBILITY STUDY |
| AWP Code: | Not reported |
| Proposed Budget: | 0 |
| AWP Completion Date: | Not reported |
| Revised Due Date: | Not reported |
| Comments Date: | 12311989 |
| Est Person-Yrs to complete: | 0 |
| Estimated Size: | Not reported |
| Request to Delete Activity: | Not reported |
| Activity Status: | COM |
| Definition of Status: | CERTIFIED / OPERATION & MAINTENANCE |
| Liquids Removed (Gals): | 0 |
| Liquids Treated (Gals): | 0 |
| Action Included Capping: | Not reported |
| Well Decommissioned: | Not reported |
| Action Included Fencing: | Not reported |
| Removal Action Certification: | Not reported |
| Activity Comments: | Not reported |
| For Commercial Reuse: | 0 |
| For Industrial Reuse: | 0 |
| For Residential Reuse: | 0 |
| Unknown Type: | 0 |
| Facility ID: | 44360011 |
| Activity: | RAP |
| Activity Name: | REMEDIAL ACTION PLAN / RECORD OF DECISION |
| AWP Code: | Not reported |
| Proposed Budget: | 0 |
| AWP Completion Date: | Not reported |
| Revised Due Date: | Not reported |
| Comments Date: | 06291990 |

**WATKINS JOHNSON CO (STEWART DIV) (Continued)** **S101482428**

| | |
|---|---|
| Est Person-Yrs to complete: | 0 |
| Estimated Size: | Not reported |
| Request to Delete Activity: | Not reported |
| Activity Status: | COM |
| Definition of Status: | CERTIFIED / OPERATION & MAINTENANCE |
| Liquids Removed (Gals): | 0 |
| Liquids Treated (Gals): | 0 |
| Action Included Capping: | Not reported |
| Well Decommissioned: | Not reported |
| Action Included Fencing: | Not reported |
| Removal Action Certification: | Not reported |
| Activity Comments: | Not reported |
| For Commercial Reuse: | 0 |
| For Industrial Reuse: | 0 |
| For Residential Reuse: | 0 |
| Unknown Type: | 0 |
| Facility ID: | 44360011 |
| Activity: | ORDER |
| Activity Name: | I/SE, IORSE, FFA, FFSRA, VCA, EA |
| AWP Code: | RMDL |
| Proposed Budget: | 0 |
| AWP Completion Date: | Not reported |
| Revised Due Date: | Not reported |
| Comments Date: | 10311991 |
| Est Person-Yrs to complete: | 0 |
| Estimated Size: | Not reported |
| Request to Delete Activity: | Not reported |
| Activity Status: | COM |
| Definition of Status: | CERTIFIED / OPERATION & MAINTENANCE |
| Liquids Removed (Gals): | 0 |
| Liquids Treated (Gals): | 0 |
| Action Included Capping: | Not reported |
| Well Decommissioned: | Not reported |
| Action Included Fencing: | Not reported |
| Removal Action Certification: | Not reported |
| Activity Comments: | Not reported |
| For Commercial Reuse: | 0 |
| For Industrial Reuse: | 0 |
| For Residential Reuse: | 0 |
| Unknown Type: | 0 |
| Facility ID: | 44360011 |
| Activity: | COST |
| Activity Name: | COST RECOVERY |
| AWP Code: | TOLL |
| Proposed Budget: | 0 |
| AWP Completion Date: | Not reported |
| Revised Due Date: | Not reported |
| Comments Date: | 06141996 |
| Est Person-Yrs to complete: | 0 |
| Estimated Size: | Not reported |
| Request to Delete Activity: | Not reported |
| Activity Status: | COM |
| Definition of Status: | CERTIFIED / OPERATION & MAINTENANCE |
| Liquids Removed (Gals): | 0 |
| Liquids Treated (Gals): | 0 |
| Action Included Capping: | Not reported |
| Well Decommissioned: | Not reported |

**WATKINS JOHNSON CO (STEWART DIV) (Continued)** **S101482428**

| | |
|---|---|
| Action Included Fencing: | Not reported |
| Removal Action Certification: | Not reported |
| Activity Comments: | Not reported |
| For Commercial Reuse: | 0 |
| For Industrial Reuse: | 0 |
| For Residential Reuse: | 0 |
| Unknown Type: | 0 |
| Facility ID: | 44360011 |
| Activity: | CERT |
| Activity Name: | CERTIFICATION |
| AWP Code: | Not reported |
| Proposed Budget: | 0 |
| AWP Completion Date: | Not reported |
| Revised Due Date: | Not reported |
| Comments Date: | 06261997 |
| Est Person-Yrs to complete: | 0 |
| Estimated Size: | Not reported |
| Request to Delete Activity: | Not reported |
| Activity Status: | COM |
| Definition of Status: | CERTIFIED / OPERATION & MAINTENANCE |
| Liquids Removed (Gals): | 33 |
| Liquids Treated (Gals): | 0 |
| Action Included Capping: | X |
| Well Decommissioned: | Not reported |
| Action Included Fencing: | Not reported |
| Removal Action Certification: | N |
| Activity Comments: | 825 MILLION GALLONS OF GROUNDWATER TREATED USING AN ACTIVATED CARBONTREATMENT UNIT. 12 ACRES CAPPED, 33 CU YDS REMOVED, 250,000 GALLONS OFGROUNDWATER EXTRACTED PER DAY. |
| For Commercial Reuse: | 0 |
| For Industrial Reuse: | 0 |
| For Residential Reuse: | 0 |
| Unknown Type: | 0 |
| Facility ID: | 44360011 |
| Activity: | COST |
| Activity Name: | COST RECOVERY |
| AWP Code: | SETTL |
| Proposed Budget: | 0 |
| AWP Completion Date: | Not reported |
| Revised Due Date: | Not reported |
| Comments Date: | 05291997 |
| Est Person-Yrs to complete: | 0 |
| Estimated Size: | Not reported |
| Request to Delete Activity: | Not reported |
| Activity Status: | COM |
| Definition of Status: | CERTIFIED / OPERATION & MAINTENANCE |
| Liquids Removed (Gals): | 0 |
| Liquids Treated (Gals): | 0 |
| Action Included Capping: | Not reported |
| Well Decommissioned: | Not reported |
| Action Included Fencing: | Not reported |
| Removal Action Certification: | Not reported |
| Activity Comments: | Not reported |
| For Commercial Reuse: | 0 |
| For Industrial Reuse: | 0 |
| For Residential Reuse: | 0 |
| Unknown Type: | 0 |

**WATKINS JOHNSON CO (STEWART DIV) (Continued)** **S101482428**

| | |
|---|---|
| Alternate Address: | 440 KINGS VILLAGE ROAD |
| Alternate City,St,Zip: | SCOTTS VALLEY, CA 95066 |
| Alternate Address: | 440 MOUNT HERMAN ROAD |
| Alternate City,St,Zip: | SCOTTS VALLEY, CA 95066 |
| Background Info: | residential deve- lopment which relies on local groundwater for drinking water. Approximately 16 wells are located in the area that draw water from two major aquifers for the community. The aquifers are recharged by runoff from Bean Creek which flows directly across the site. Contaminants may migrate offsite via surface water movement, wind dispersion and groundwater transport. This could result in human and animal exposure from direct contact with contaminated soil and water. A fish hatchery is located downgradient from the site on Bean Creek. Watkins-Johnson has been operating a plating and electronics research, development and manufacturing plant at this four-acre facility since 1963. Contamination of groundwater and soils resulted from solvents injected or introduced into dry wells and septic tanks. The facility is surrounded by a low density |
| Comments Date: | 06261997 |
| Comments: | Certified Site. Extraction and treatment of groundwater from |
| Comments Date: | 06261997 |
| Comments: | the Santa Margarita aquifer is ongoing as long-term |
| Comments Date: | 06261997 |
| Comments: | stabilization of the site. An average of 305,000 gallons per |
| Comments Date: | 06261997 |
| Comments: | day is being treated using an activated carbon treatment unit. |
| Comments Date: | 06261997 |
| Comments: | Approximately 65% of the treated water is being discharged into |
| Comments Date: | 06261997 |
| Comments: | Bean Creek, about 28% of the treated water is being reused by |
| Comments Date: | 06261997 |
| Comments: | Watkins-Johnson, and the remaining 7% is discharged in a leach |
| Comments Date: | 06261997 |
| Comments: | field. Nine monitoring locations are stationed along Bean |
| Comments Date: | 06261997 |
| Comments: | Creek. Water samples, from a location above the discharge point |
| Comments Date: | 06261997 |
| Comments: | and downstream locations, are being sampled quarterly for toxic |
| Comments Date: | 06261997 |
| Comments: | solvents, pH, turbidity and oxygen content. Extraction and |
| Comments Date: | 06261997 |
| Comments: | treatment/monitoring of groundwater may continue for more than |
| Comments Date: | 06261997 |
| Comments: | 20 years. |
| Comments Date: | 06291990 |
| Comments: | Approved RAW/ROD. The ROD approved by the US EPA calls for soil |
| Comments Date: | 06291990 |
| Comments: | remediation using a combination of soil removal, capping, and |
| Comments Date: | 06291990 |
| Comments: | gas vapor extraction. The ROD also requires continuation of |
| Comments Date: | 06291990 |
| Comments: | groundwater treatment using activated carbon. |
| Comments Date: | 07251991 |
| Comments: | Plating and electronics research & development facility. |
| Comments Date: | 07251991 |
| Comments: | Surface and ground water contaminated by TCE, TCA, and |
| Comments Date: | 07251991 |

**WATKINS JOHNSON CO (STEWART DIV) (Continued)** **S101482428**

| | |
|---|---|
| Comments: | 1,2-DCE. |
| Comments Date: | 07261995 |
| Comments: | Remedial action is complete, however there is still 50 |
| Comments Date: | 07261995 |
| Comments: | ppb of TCE in groundwater. Watkins is using this |
| Comments Date: | 07261995 |
| Comments: | groundwater. |
| Comments Date: | 07261995 |
| Comments: | Certification is under preparation and will be completed |
| Comments Date: | 07261995 |
| Comments: | by August 15, 1995. Rp claimed that they have spent about |
| Comments Date: | 07261995 |
| Comments: | 10 million to remediate this site. (Pers. com M. Marsden). |
| Comments Date: | 12311989 |
| Comments: | Completed RIFS. A variety of organic chemicals used in the |
| Comments Date: | 12311989 |
| Comments: | manufacturing process were detected in surface water, |
| Comments Date: | 12311989 |
| Comments: | groundwater and in the soils. The main organics were: |
| Comments Date: | 12311989 |
| Comments: | trichloroethylene (TCE), trichloroethane (TCA), Freon-113, |
| Comments Date: | 12311989 |
| Comments: | tetrachloroethylene (PCE), and trans 1,2-dichloroethene |
| Comments Date: | 12311989 |
| Comments: | (1,2-DCE). A groundwater plume consisting of TCE has been |
| Comments Date: | 12311989 |
| Comments: | detected and is approximately 1,900 feet long. It is possible |
| Comments Date: | 12311989 |
| Comments: | that groundwater is also contaminated with heavy metals |
| Comments Date: | 12311989 |
| Comments: | resulting from a photo-etching operation onsite. |
| ID Name: | BEP DATABASE PCODE |
| ID Value: | P23031 |
| ID Name: | EPA IDENTIFICATION NUMBER |
| ID Value: | CAD980893234 |
| ID Name: | CALSTARS CODE |
| ID Value: | 200114 |
| Alternate Name: | WATKINS-JOHNSON (SANTA CRUZ) |
| Alternate Name: | SCOTTS VALLEY AREA |
| Alternate Name: | SANTA MARGARITA AQUIFER |
| Alternate Name: | WATKINS-JOHNSON (STEWART DIVISION) |
| Alternate Name: | WATKINS-JOHNSON CO (STEWART DIV) |
| Alternate Name: | WATKINS JOHNSON CO (STEWART DIV) |
| Alternate Name: | Not reported |
| Special Programs Code: | MSCA |
| Special Programs Name: | MULTI-SITE COOPERATIVE AGREEMENT |

EMI:

| | |
|---|---|
| Name: | WATKINS-JOHNSON CO. |
| Address: | 440 KINGS VILLAGE ROAD |
| City,State,Zip: | SCOTTS VALLEY, CA |
| Year: | 1987 |
| County Code: | 44 |
| Air Basin: | NCC |
| Facility ID: | 58 |
| Air District Name: | MBU |
| SIC Code: | 3679 |

**WATKINS JOHNSON CO (STEWART DIV) (Continued)** **S101482428**

| | |
|---|---|
| Air District Name: | MONTEREY BAY UNIFIED APCD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 16 |
| 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: | WATKINS-JOHNSON CO. |
| Address: | 440 KINGS VILLAGE ROAD |
| City,State,Zip: | SCOTTS VALLEY, CA |
| Year: | 1990 |
| County Code: | 44 |
| Air Basin: | NCC |
| Facility ID: | 58 |
| Air District Name: | MBU |
| SIC Code: | 3679 |
| Air District Name: | MONTEREY BAY UNIFIED APCD |
| 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: | 4 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | WATKINS-JOHNSON CO. |
| Address: | 440 KINGS VILLAGE ROAD |
| City,State,Zip: | SCOTTS VALLEY, CA |
| Year: | 1995 |
| County Code: | 44 |
| Air Basin: | NCC |
| Facility ID: | 58 |
| Air District Name: | MBU |
| SIC Code: | 3679 |
| Air District Name: | MONTEREY BAY UNIFIED APCD |
| 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: | 7 |
| NOX - Oxides of Nitrogen Tons/Yr: | 4 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | WATKINS-JOHNSON CO. |
| Address: | 440 KINGS VILLAGE ROAD |
| City,State,Zip: | SCOTTS VALLEY, CA |
| Year: | 1996 |
| County Code: | 44 |
| Air Basin: | NCC |

**WATKINS JOHNSON CO (STEWART DIV) (Continued)** **S101482428**

| | |
|---|---|
| Facility ID: | 58 |
| Air District Name: | MBU |
| SIC Code: | 3679 |
| Air District Name: | MONTEREY BAY UNIFIED APCD |
| 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: | 7 |
| NOX - Oxides of Nitrogen Tons/Yr: | 4 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

---

**N95** **440 KINGS VILLAGE ROAD** **ENVIROSTOR** **S100877898**
**NNE** **440 KINGS VILLAGE ROAD** **ENF** **N/A**
**1/4-1/2** **SANTA CRUZ, CA 95066** **HIST CORTESE**
**0.359 mi.** **NPDES**
**1897 ft.** **Site 3 of 3 in cluster N** **CIWQS**

**Relative:** **Lower**
**Actual:** **414 ft.**

ENVIROSTOR:

| | |
|---|---|
| Name: | WATKINS JOHNSON CO (STEWART DIV) |
| Address: | 440 KINGS VILLAGE ROAD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Facility ID: | 44360011 |
| Status: | Refer: EPA |
| Status Date: | 06/26/1997 |
| Site Code: | 200114 |
| Site Type: | Federal Superfund |
| Site Type Detailed: | State Response or NPL |
| Acres: | 3 |
| NPL: | YES |
| Regulatory Agencies: | SMBRP, RWQCB 3 - Central Coast, US EPA |
| Lead Agency: | US EPA |
| Program Manager: | Jovanne Villamater |
| Supervisor: | Mark Piros |
| Division Branch: | Cleanup Berkeley |
| Assembly: | 29 |
| Senate: | 17 |
| Special Program: | EPA - Multi-Site Cooperative Agreement |
| Restricted Use: | NO |
| Site Mgmt Req: | NONE SPECIFIED |
| Funding: | Responsible Party |
| Latitude: | 37.05094 |
| Longitude: | -122.0287 |
| APN: | NONE SPECIFIED |
| Past Use: | MANUFACTURING - ELECTRONIC, MANUFACTURING - INDUSTRIAL MACHINERY |
| Potential COC: | Freon 113 Tetrachloroethylene (PCE 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE |
| Confirmed COC: | Tetrachloroethylene (PCE 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Freon 113 |
| Potential Description: | AQUI, SOIL |
| Alias Name: | SANTA MARGARITA AQUIFER |
| Alias Type: | Alternate Name |
| Alias Name: | SCOTTS VALLEY AREA |
| Alias Type: | Alternate Name |
| Alias Name: | WATKINS-JOHNSON (SANTA CRUZ) |
| Alias Type: | Alternate Name |

**440 KINGS VILLAGE ROAD (Continued)** **S100877898**

Alias Name: WATKINS-JOHNSON (STEWART DIVISION)
Alias Type: Alternate Name
Alias Name: WATKINS-JOHNSON CO (STEWART DIV)
Alias Type: Alternate Name
Alias Name: CAD980893234
Alias Type: EPA Identification Number
Alias Name: 110000908518
Alias Type: EPA (FRS #)
Alias Name: P23031
Alias Type: PCode
Alias Name: 200114
Alias Type: Project Code (Site Code)
Alias Name: 44360011
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/26/1997
Comments: Certified Site. Extraction and treatment of groundwater from the Santa Margarita aquifer is ongoing as long-term stabilization of the site. An average of 305,000 gallons per day is being treated using an activated carbon treatment unit. Approximately 65% of the treated water is being discharged into Bean Creek, about 28% of the treated water is being reused by Watkins-Johnson, and the remaining 7% is discharged in a leach field. Nine monitoring locations are stationed along Bean Creek. Water samples, from a location above the discharge point and downstream locations, are being sampled quarterly for toxic solvents, pH, turbidity and oxygen content. Extraction and treatment/monitoring of groundwater may continue for more than 20 years.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 10/31/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 09/21/1987
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 06/29/1990
Comments: Approved RAW/ROD. The ROD approved by the US EPA calls for soil remediation using a combination of soil removal, capping, and gas vapor extraction. The ROD also requires continuation of groundwater treatment using activated carbon.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 12/31/1989

**440 KINGS VILLAGE ROAD (Continued)** **S100877898**

| | |
|---|---|
| Comments: | Completed RIFS. A variety of organic chemicals used in the manufacturing process were detected in surface water, groundwater and in the soils. The main organics were: trichloroethylene (TCE), trichloroethane (TCA), Freon-113, tetrachloroethylene (PCE), and trans 1,2-dichloroethene (1,2-DCE). A groundwater plume consisting of TCE has been detected and is approximately 1,900 feet long. It is possible that groundwater is also contaminated with heavy metals resulting from a photo-etching operation onsite. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Public Participation Plan / Community Relations Plan |
| Completed Date: | 07/30/1987 |
| Comments: | Not reported |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | 5 Year Review Reports |
| Completed Date: | 09/27/2002 |
| Comments: | EPA completed the Five-Year Review |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Monitoring Report |
| Completed Date: | 08/07/2009 |
| Comments: | Reported submitted. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Monitoring Report |
| Completed Date: | 10/30/2009 |
| Comments: | Report submitted |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Monitoring Report |
| Completed Date: | 04/05/2011 |
| Comments: | Copy of report provided to DTSC. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Monitoring Report |
| Completed Date: | 01/03/2012 |
| Comments: | Monitoring report submitted to US EPA. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Operation and Maintenance Report |
| Completed Date: | 07/02/2012 |
| Comments: | Project is overseen by USEPA. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Operation and Maintenance Report |
| Completed Date: | 10/08/2012 |
| Comments: | Project overseen by USEPA. |

**440 KINGS VILLAGE ROAD (Continued)** **S100877898**

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Operation and Maintenance Report |
| Completed Date: | 06/28/2013 |
| Comments: | Project overseen by USEPA |
| 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 |

ENF:

| | |
|---|---|
| Name: | 440 KINGS VILLAGE ROAD |
| Address: | 440 KINGS VILLAGE ROAD |
| City,State,Zip: | SANTA CRUZ, CA 95066 |
| Region: | 3 |
| Facility Id: | 257057 |
| Agency Name: | Arcadis, Geraghty, Miller Inc |
| Place Type: | Facility |
| Place Subtype: | Groundwater Cleanup Site |
| Facility Type: | All other facilities |
| Agency Type: | Privately-Owned Business |
| # Of Agencies: | 1 |
| Place Latitude: | Not reported |
| Place Longitude: | Not reported |
| SIC Code 1: | Not reported |
| SIC Desc 1: | Not reported |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | Not reported |
| NAICS Desc 1: | Not reported |
| NAICS Code 2: | Not reported |
| NAICS Desc 2: | Not reported |
| NAICS Code 3: | Not reported |
| NAICS Desc 3: | Not reported |
| # Of Places: | 1 |
| Source Of Facility: | Reg Meas |
| Design Flow: | 0.612 |
| Threat To Water Quality: | 2 |
| Complexity: | B |
| Pretreatment: | X - Facility is not a POTW |
| Facility Waste Type: | Contaminated ground water |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDNONMUNIPRCS |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 3 442000003 |

**440 KINGS VILLAGE ROAD (Continued)** **S100877898**

| | |
|---|---|
| Reg Measure Id: | 132101 |
| Reg Measure Type: | NPDES Permits |
| Region: | 3 |
| Order #: | R3-2002-0002 |
| Npdes# CA#: | CA0049077 |
| Major-Minor: | Minor |
| Npdes Type: | OTH |
| Reclamation: | N - No |
| Dredge Fill Fee: | Not reported |
| 301H: | N |
| Application Fee Amt Received: | Not reported |
| Status: | Historical |
| Status Date: | 04/04/2008 |
| Effective Date: | 03/22/2002 |
| Expiration/Review Date: | 03/22/2007 |
| Termination Date: | 03/19/2008 |
| WDR Review - Amend: | Not reported |
| WDR Review - Revise/Renew: | Not reported |
| WDR Review - Rescind: | Not reported |
| WDR Review - No Action Required: | Not reported |
| WDR Review - Pending: | Not reported |
| WDR Review - Planned: | Not reported |
| Status Enrollee: | N |
| Individual/General: | I |
| Fee Code: | 66 - NPDES Based on Flow |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 222933 |
| Region: | 3 |
| Order / Resolution Number: | 85-135 |
| Enforcement Action Type: | Clean-up and Abatement Order |
| Effective Date: | 07/22/1985 |
| 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 - 3 442000003 |
| Description: | IMPROPERLY DISPOSED HAZARDOUS WASTES AT SITE |
| Program: | NPDNONMUNIPRCS |
| 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: | 440 KINGS VILLAGE ROAD |
| Address: | 440 KINGS VILLAGE ROAD |
| City,State,Zip: | SANTA CRUZ, CA 95066 |
| Region: | 3 |
| Facility Id: | 257057 |
| Agency Name: | Arcadis, Geraghty, Miller Inc |
| Place Type: | Facility |

**440 KINGS VILLAGE ROAD (Continued)** **S100877898**

| | |
|---|---|
| Place Subtype: | Groundwater Cleanup Site |
| Facility Type: | All other facilities |
| Agency Type: | Privately-Owned Business |
| # Of Agencies: | 1 |
| Place Latitude: | Not reported |
| Place Longitude: | Not reported |
| SIC Code 1: | Not reported |
| SIC Desc 1: | Not reported |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | Not reported |
| NAICS Desc 1: | Not reported |
| NAICS Code 2: | Not reported |
| NAICS Desc 2: | Not reported |
| NAICS Code 3: | Not reported |
| NAICS Desc 3: | Not reported |
| # Of Places: | 1 |
| Source Of Facility: | Reg Meas |
| Design Flow: | 0.612 |
| Threat To Water Quality: | 2 |
| Complexity: | B |
| Pretreatment: | X - Facility is not a POTW |
| Facility Waste Type: | Contaminated ground water |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDNONMUNIPRCS |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 3 442000003 |
| Reg Measure Id: | 132101 |
| Reg Measure Type: | NPDES Permits |
| Region: | 3 |
| Order #: | R3-2002-0002 |
| Npdes# CA#: | CA0049077 |
| Major-Minor: | Minor |
| Npdes Type: | OTH |
| Reclamation: | N - No |
| Dredge Fill Fee: | Not reported |
| 301H: | N |
| Application Fee Amt Received: | Not reported |
| Status: | Historical |
| Status Date: | 04/04/2008 |
| Effective Date: | 03/22/2002 |
| Expiration/Review Date: | 03/22/2007 |
| Termination Date: | 03/19/2008 |
| WDR Review - Amend: | Not reported |
| WDR Review - Revise/Renew: | Not reported |
| WDR Review - Rescind: | Not reported |
| WDR Review - No Action Required: | Not reported |
| WDR Review - Pending: | Not reported |
| WDR Review - Planned: | Not reported |
| Status Enrollee: | N |
| Individual/General: | I |

**440 KINGS VILLAGE ROAD (Continued)** **S100877898**

| | |
|---|---|
| Fee Code: | 66 - NPDES Based on Flow |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 222836 |
| Region: | 3 |
| Order / Resolution Number: | 86-213 |
| Enforcement Action Type: | Clean-up and Abatement Order |
| Effective Date: | 07/11/1986 |
| Adoption/Issuance Date: | Not reported |
| Achieve Date: | Not reported |
| Termination Date: | Not reported |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Active |
| Title: | Enforcement - 3 442000003 |
| Description: | VIOLATION O |
| Program: | NPDNONMUNIPRCS |
| 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 |

HIST CORTESE:

| | |
|---|---|
| edr_fname: | STEWART DIVISION PLANT CL |
| edr_fadd1: | 440 KINGS VILLAGE |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Region: | CORTESE |
| Facility County Code: | 44 |
| Reg By: | WBC&D |
| Reg Id: | 3 442000003 |

| | |
|---|---|
| edr_fname: | WATKINS JOHNSON CO (STEWA |
| edr_fadd1: | 440 KINGS VILLAGE |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Region: | CORTESE |
| Facility County Code: | 44 |
| Reg By: | CALSI |
| Reg Id: | 44360011 |

NPDES:

| | |
|---|---|
| Name: | 440 KINGS VILLAGE ROAD |
| Address: | 440 KINGS VILLAGE ROAD |
| City,State,Zip: | SANTA CRUZ, CA 95066 |
| Facility Status: | Active |
| NPDES Number: | CAG993002 |
| Region: | 3 |
| Agency Number: | 1979 |
| Regulatory Measure ID: | 343434 |
| Place ID: | 257057 |
| Order Number: | R3-2016-0035 |
| WDID: | 3 442000003 |
| Regulatory Measure Type: | Enrollee |

**440 KINGS VILLAGE ROAD (Continued)** **S100877898**

| | |
|---|---|
| Program Type: | NPDNONMUNIPRCS |
| Adoption Date Of Regulatory Measure: | 03/20/2008 |
| Effective Date Of Regulatory Measure: | 03/20/2008 |
| Termination Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | 01/28/2022 |
| Discharge Address: | 1050 Marina Way |
| Discharge Name: | Arcadis, Geraghty, Miller Inc |
| Discharge City: | Richmond |
| Discharge State: | CA |
| Discharge Zip: | 94804 |
| Status: | Not reported |
| Status Date: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |

NPDES as of 03/2018:

| | |
|---|---|
| NPDES Number: | CAG993002 |
| Status: | Active |
| Agency Number: | 1979 |
| Region: | 3 |
| Regulatory Measure ID: | 343434 |
| Order Number: | R3-2016-0035 |
| Regulatory Measure Type: | Enrollee |
| Place ID: | 257057 |
| WDID: | 3 442000003 |
| Program Type: | NPDNONMUNIPRCS |
| Adoption Date Of Regulatory Measure: | 03/20/2008 |
| Effective Date Of Regulatory Measure: | 03/20/2008 |
| Expiration Date Of Regulatory Measure: | 01/28/2022 |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Arcadis, Geraghty, Miller Inc |
| Discharge Address: | 1050 Marina Way |
| Discharge City: | Richmond |
| Discharge State: | CA |
| Discharge Zip: | 94804 |
| Received Date: | Not reported |
| Processed Date: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Place Size: | Not reported |
| Place Size Unit: | Not reported |
| Contact: | Not reported |
| Contact Title: | Not reported |
| Contact Phone: | Not reported |
| Contact Phone Ext: | Not reported |
| Contact Email: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |
| Operator Contact: | Not reported |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | Not reported |
| Operator Contact Phone Ext: | Not reported |

**440 KINGS VILLAGE ROAD (Continued)** **S100877898**

| | |
|---|---|
| Operator Contact Email: | Not reported |
| Operator Type: | Not reported |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | Not reported |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Not reported |
| Certifier Title: | Not reported |
| Certification Date: | Not reported |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |

CIWQS:

| | |
|---|---|
| Name: | 440 KINGS VILLAGE ROAD |
| Address: | 440 KINGS VILLAGE ROAD |
| City,State,Zip: | SANTA CRUZ, CA 95066 |
| Agency: | Arcadis, Geraghty, Miller Inc |
| Agency Address: | 1050 Marina Way, Richmond, CA 94804 |
| Place/Project Type: | Groundwater Cleanup Site |
| SIC/NAICS: | Not reported |
| Region: | 3 |
| Program: | NPDNONMUNIPRCS |
| Regulatory Measure Status: | Active |
| Regulatory Measure Type: | Enrollee |
| Order Number: | R3-2016-0035 |
| WDID: | 3 442000003 |
| NPDES Number: | CAG993002 |
| Adoption Date: | 03/20/2008 |
| Effective Date: | 03/20/2008 |
| Termination Date: | 01/01/1900 |
| Expiration/Review Date: | 01/28/2022 |

**440 KINGS VILLAGE ROAD (Continued)** **S100877898**

| | |
|---|---|
| Design Flow: | 0.612 |
| Major/Minor: | Minor |
| Complexity: | B |
| TTWQ: | 2 |
| Enforcement Actions within 5 years: | 0 |
| Violations within 5 years: | 0 |
| Latitude: | Not reported |
| Longitude: | Not reported |

---

**L96** **LARRYS SHELL** **LUST** **S105026576**
**ESE** **90 MT HERMON RD** **HIST UST** **N/A**
**1/4-1/2** **SCOTTS VALLEY, CA 95066** **Cortese**
**0.388 mi.** **CUPA Listings**
**2051 ft.** **Site 4 of 6 in cluster L** **HIST CORTESE**

**Relative: Higher**
**Actual: 534 ft.**

LUST REG 3:

| | |
|---|---|
| Region: | 3 |
| Regional Board: | Central Coast Region |
| Facility County: | Santa Cruz |
| Global ID: | T0608700282 |
| Status: | Remedial action (cleanup) Underway |
| Case Number: | 743 |
| Local Case Num: | Not reported |
| Case Type: | A |
| Substance: | Gasoline |
| Quantity: | Not reported |
| Abatement Method: | Excavate and Dispose - remove contaminated soil and dispose in approved site |
| Leak Source: | UNK |
| Leak Cause: | Corrosion |
| How Stopped: | Not reported |
| How Discovered: | Tank Test |
| Release Date: | 08/14/1989 |
| Discovered Date: | 8/14/89 |
| Enter Date: | 01/10/1990 |
| Stop Date: | Not reported |
| Review Date: | 09/05/2002 |
| Enforce Date: | Not reported |
| Close Date: | Not reported |
| Enforcement Type: | LET |
| Responsible Party: | ALEX PEREZ |
| RP Address: | PO BOX 4023 |
| Contact: | Not reported |
| Cross Street: | SCOTTS VALLEY DR |
| Local Agency: | 44000 |
| Lead Agency: | Regional Board |
| Staff Initials: | WNL |
| Confirm Leak: | Not reported |
| Workplan: | Not reported |
| Prelim Assess: | 2/16/93 |
| Pollution Char: | / / |
| Remedial Plan: | Not reported |
| Remedial Action: | 11/18/98 |
| Monitoring: | / / |
| Pilot Program: | UST |
| Interim Action: | 0 |
| Funding: | Not reported |
| MTBE Class: | A |

**LARRYS SHELL (Continued)** **S105026576**

Max MTBE Grnd Wtr: 920
Max MTBE Soil: Not reported
Max MTBE Data: 05/30/2001
MTBE Tested: YES
Lat/Long: 37.0413136 / -122.0239445
Soil Qualifier: Not reported
Grnd Wtr Qualifier: =
Mtbe Concentratn: 14
Mtbe Fuel: 1
Org Name: Not reported
Basin Plan: 4.12
Beneficial: MUN
Priority: 1A3
UST Cleanup Fund ID: Not reported
Suspended: Not reported
Operator: Not reported
Water System: DAWAIN TERRELL
Well Name: SAN LORENZO VALLEY WD - TREATED GW
Distance From Well: 0
Assigned Name: 4410004-003
Summary: COMMINGLED PLUMES APPEAR STABLE. NO ACTIVE REMEDIATION. RELATIVELY LOW CONCENTRATIONS OF TPH AND BENZENE FOUND ON-SITE. QUARTERLY MONITORING ONGOING.

HIST UST:
Name: LARRYS SHELL
Address: 90 MT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
File Number: 00020CC8
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00020CC8.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: SHELL STATION
Address: 90 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066

**LARRYS SHELL (Continued)** **S105026576**

| | |
|---|---|
| Region: | CORTESE |
| Envirostor Id: | Not reported |
| Global ID: | T0608700282 |
| 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 CRUZ:

| | |
|---|---|
| Name: | MT HERMON SHELL |
| Address: | 90 MT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Facility Id: | FA0003393 |
| Cross Street: | SCOTTS VALLEY DR |
| Description: | HMMP STANDARD FORM QR 3 |

| | |
|---|---|
| Name: | MT HERMON SHELL |
| Address: | 90 MT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Facility Id: | FA0003393 |
| Cross Street: | SCOTTS VALLEY DR |
| Description: | HAZARDOUS WASTE GENERATOR (HMMP STD FORM) |

| | |
|---|---|
| Name: | MT HERMON SHELL |
| Address: | 90 MT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Facility Id: | FA0003393 |
| Cross Street: | SCOTTS VALLEY DR |
| Description: | HMMP STANDARD FORM QR 2 |

| | |
|---|---|
| Name: | MT HERMON SHELL |
| Address: | 90 MT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Facility Id: | FA0003393 |
| Cross Street: | SCOTTS VALLEY DR |
| Description: | UNDERGROUND STORAGE TANK PROGRAM |

| | |
|---|---|
| Name: | MT HERMON SHELL |
| Address: | 90 MT HERMON RD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Facility Id: | FA0003393 |
| Cross Street: | SCOTTS VALLEY DR |
| Description: | STATE UST SURCHARGE |

**LARRYS SHELL (Continued)** **S105026576**

Name: MT HERMON SHELL
Address: 90 MT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Facility Id: FA0003393
Cross Street: SCOTTS VALLEY DR
Description: HMMP STANDARD FORM FILING FEE

HIST CORTESE:
edr_fname: SHELL STATION
edr_fadd1: 90 MT HERMON
City,State,Zip: SCOTTS VALLEY, CA 95066
Region: CORTESE
Facility County Code: 44
Reg By: LTNKA
Reg Id: 743

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**L97** **KERAKACIN ENTERPRISES, INC.** **LUST** **U001602069**
**ESE** **90 MOUNT HERMON ROAD** **HIST UST** **N/A**
**1/4-1/2** **SCOTTS VALLEY, CA 95066** **ENF**
**0.388 mi.** **CERS**
**2051 ft.** **Site 5 of 6 in cluster L**

**Relative: Higher**
**Actual: 534 ft.**

LUST:
Name: SHELL STATION
Address: 90 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Lead Agency: CENTRAL COAST RWQCB (REGION 3)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608700282
Global Id: T0608700282
Latitude: 37.0431034337915
Longitude: -122.024749517441
Status: Completed - Case Closed
Status Date: 11/21/2017
Case Worker: WNL
RB Case Number: 743
Local Agency: SANTA CRUZ COUNTY
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0608700282
Contact Type: Local Agency Caseworker
Contact Name: SCOTT CARSON
Organization Name: SANTA CRUZ COUNTY
Address: 701 Ocean Street, Room 312
City: SANTA CRUZ
Email: scott.carson@co.santa-cruz.ca.us
Phone Number: Not reported

Global Id: T0608700282
Contact Type: Regional Board Caseworker
Contact Name: WEI LIU
Organization Name: CENTRAL COAST RWQCB (REGION 3)
Address: 895 AEROVISTA PLACE, SUITE 101

**KERAKACIN ENTERPRISES, INC. (Continued)** **U001602069**

City: SAN LUIS OBISPO
Email: wei.liu@waterboards.ca.gov
Phone Number: 8055493147

LUST:
Global Id: T0608700282
Action Type: RESPONSE
Date: 12/30/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0608700282
Action Type: ENFORCEMENT
Date: 07/01/2002
Action: Staff Letter

Global Id: T0608700282
Action Type: ENFORCEMENT
Date: 01/12/2010
Action: Letter - Notice

Global Id: T0608700282
Action Type: ENFORCEMENT
Date: 05/17/2005
Action: Staff Letter

Global Id: T0608700282
Action Type: RESPONSE
Date: 10/20/2004
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 10/20/2005
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 01/20/2006
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 04/20/2006
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 07/20/2006
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 04/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE

**KERAKACIN ENTERPRISES, INC. (Continued)** **U001602069**

Date: 07/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 06/30/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0608700282
Action Type: ENFORCEMENT
Date: 05/07/2003
Action: Staff Letter

Global Id: T0608700282
Action Type: RESPONSE
Date: 07/20/2003
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 04/20/2004
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 01/20/2005
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 07/20/2005
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 10/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 01/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 04/20/2005
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 04/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 10/20/2006
Action: Monitoring Report - Quarterly

**KERAKACIN ENTERPRISES, INC. (Continued)** **U001602069**

Global Id: T0608700282
Action Type: RESPONSE
Date: 01/20/2007
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 12/30/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0608700282
Action Type: ENFORCEMENT
Date: 11/07/2002
Action: Waste Discharge Requirements

Global Id: T0608700282
Action Type: ENFORCEMENT
Date: 06/24/2005
Action: * No Action

Global Id: T0608700282
Action Type: ENFORCEMENT
Date: 03/04/2015
Action: Notification - Fee Title Owners Notice

Global Id: T0608700282
Action Type: RESPONSE
Date: 07/20/2003
Action: Remedial Progress Report

Global Id: T0608700282
Action Type: RESPONSE
Date: 07/30/2004
Action: Remedial Progress Report

Global Id: T0608700282
Action Type: RESPONSE
Date: 10/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 01/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 06/30/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0608700282
Action Type: RESPONSE
Date: 07/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE

**KERAKACIN ENTERPRISES, INC. (Continued)** **U001602069**

Date: 10/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 10/20/2007
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 01/20/2008
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 04/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 04/20/2007
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 07/20/2007
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 12/30/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0608700282
Action Type: RESPONSE
Date: 11/30/2017
Action: Well Destruction Report

Global Id: T0608700282
Action Type: RESPONSE
Date: 10/15/2014
Action: Request for Closure - Regulator Responded

Global Id: T0608700282
Action Type: ENFORCEMENT
Date: 02/22/2017
Action: Staff Letter

Global Id: T0608700282
Action Type: ENFORCEMENT
Date: 11/21/2017
Action: Closure/No Further Action Letter

Global Id: T0608700282
Action Type: RESPONSE
Date: 01/30/2008
Action: Monitoring Report - Quarterly

**KERAKACIN ENTERPRISES, INC. (Continued)** **U001602069**

Global Id: T0608700282
Action Type: RESPONSE
Date: 04/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 04/20/2008
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 07/20/2008
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 06/20/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0608700282
Action Type: RESPONSE
Date: 12/30/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0608700282
Action Type: RESPONSE
Date: 11/20/2015
Action: Monitoring Report - Other - Regulator Responded

Global Id: T0608700282
Action Type: RESPONSE
Date: 07/14/2015
Action: Request for Closure - Regulator Responded

Global Id: T0608700282
Action Type: Other
Date: 08/14/1989
Action: Leak Discovery

Global Id: T0608700282
Action Type: Other
Date: 08/14/1989
Action: Leak Reported

Global Id: T0608700282
Action Type: RESPONSE
Date: 07/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 02/16/2007
Action: NPDES / WDR Reports

Global Id: T0608700282
Action Type: RESPONSE

**KERAKACIN ENTERPRISES, INC. (Continued)** **U001602069**

Date: 08/01/2014
Action: Other Report / Document

Global Id: T0608700282
Action Type: RESPONSE
Date: 05/03/2015
Action: Correspondence

Global Id: T0608700282
Action Type: RESPONSE
Date: 01/31/2017
Action: Well Destruction Workplan - Regulator Responded

Global Id: T0608700282
Action Type: RESPONSE
Date: 01/30/2015
Action: Request for Closure - Regulator Responded

Global Id: T0608700282
Action Type: ENFORCEMENT
Date: 12/07/1994
Action: Staff Letter

Global Id: T0608700282
Action Type: ENFORCEMENT
Date: 11/04/2013
Action: Staff Letter

Global Id: T0608700282
Action Type: RESPONSE
Date: 04/20/2009
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 10/20/2008
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 10/20/2009
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 01/20/2009
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 07/20/2009
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 12/30/2009
Action: Monitoring Report - Semi-Annually

**KERAKACIN ENTERPRISES, INC. (Continued)** **U001602069**

Global Id: T0608700282
Action Type: RESPONSE
Date: 06/30/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0608700282
Action Type: RESPONSE
Date: 10/20/2002
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 07/30/2002
Action: Other Report / Document

Global Id: T0608700282
Action Type: RESPONSE
Date: 07/20/2002
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 02/20/2003
Action: Remedial Progress Report

Global Id: T0608700282
Action Type: RESPONSE
Date: 10/20/2003
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 01/20/2003
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 01/30/2004
Action: Remedial Progress Report

Global Id: T0608700282
Action Type: RESPONSE
Date: 04/20/2003
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 04/30/2003
Action: Remedial Progress Report

Global Id: T0608700282
Action Type: RESPONSE
Date: 05/07/2003
Action: Other Report / Document

Global Id: T0608700282
Action Type: RESPONSE

**KERAKACIN ENTERPRISES, INC. (Continued)** **U001602069**

Date: 01/20/2004
Action: Monitoring Report - Quarterly

Global Id: T0608700282
Action Type: RESPONSE
Date: 12/30/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0608700282
Action Type: RESPONSE
Date: 07/08/2016
Action: Well Destruction Workplan - Regulator Responded

Global Id: T0608700282
Action Type: ENFORCEMENT
Date: 10/29/2013
Action: Staff Letter

Global Id: T0608700282
Action Type: ENFORCEMENT
Date: 01/02/2009
Action: File review

Global Id: T0608700282
Action Type: ENFORCEMENT
Date: 10/31/2013
Action: Staff Letter

Global Id: T0608700282
Action Type: RESPONSE
Date: 08/01/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0608700282
Action Type: ENFORCEMENT
Date: 07/20/2009
Action: 13267 Requirement

Global Id: T0608700282
Action Type: ENFORCEMENT
Date: 05/12/2009
Action: File review

Global Id: T0608700282
Action Type: ENFORCEMENT
Date: 05/07/2009
Action: File review

LUST:
Global Id: T0608700282
Status: Open - Case Begin Date
Status Date: 08/14/1989

Global Id: T0608700282
Status: Open - Site Assessment
Status Date: 02/16/1993

**KERAKACIN ENTERPRISES, INC. (Continued)** **U001602069**

Global Id: T0608700282
Status: Open - Remediation
Status Date: 11/18/1998

Global Id: T0608700282
Status: Open - Remediation
Status Date: 02/18/2003

Global Id: T0608700282
Status: Open - Remediation
Status Date: 04/30/2003

Global Id: T0608700282
Status: Open - Remediation
Status Date: 07/30/2003

Global Id: T0608700282
Status: Open - Remediation
Status Date: 01/30/2004

Global Id: T0608700282
Status: Open - Remediation
Status Date: 08/02/2004

Global Id: T0608700282
Status: Open - Verification Monitoring
Status Date: 06/30/2010

Global Id: T0608700282
Status: Open - Eligible for Closure
Status Date: 05/19/2014

Global Id: T0608700282
Status: Completed - Case Closed
Status Date: 11/21/2017

HIST UST:
Name: LARRY'S SHELL
Address: 90 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000018933
Facility Type: Gas Station
Other Type: Not reported
Contact Name: LARRY N. PALMER
Telephone: 4084382080
Owner Name: SHELL OIL COMPANY
Owner Address: P.O. BOX 4848
Owner City,St,Zip: ANAHEIM, CA 92803
Total Tanks: 0004

Tank Num: 001
Container Num: 1
Year Installed: 1968

**KERAKACIN ENTERPRISES, INC. (Continued)** **U001602069**

Tank Capacity: 00000550
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: 12
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 2
Year Installed: 1968
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 3
Year Installed: 1968
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: 4
Year Installed: 1970
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor

ENF:
Name: SHELL SS
Address: 90 MOUNT HERMON RD
City,State,Zip: SCOTTS VALLEY, CA 95066
Region: 3
Facility Id: 256712
Agency Name: Shell Oil Company - Concord
Place Type: Facility
Place Subtype: Not reported
Facility Type: All other facilities
Agency Type: Privately-Owned Business
# Of Agencies: 1
Place Latitude: 37.0414
Place Longitude: -122.024129
SIC Code 1: 5541
SIC Desc 1: Gasoline Service Stations
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

**KERAKACIN ENTERPRISES, INC. (Continued)** **U001602069**

| | |
|---|---|
| NAICS Code 3: | Not reported |
| NAICS Desc 3: | Not reported |
| # Of Places: | 1 |
| Source Of Facility: | Reg Meas |
| Design Flow: | Not reported |
| Threat To Water Quality: | Not reported |
| Complexity: | Not reported |
| Pretreatment: | Not reported |
| Facility Waste Type: | Not reported |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | UNREGS |
| Program Category1: | UNREGS |
| Program Category2: | UNREGS |
| # Of Programs: | 1 |
| WDID: | 3 440001N07 |
| Reg Measure Id: | 164229 |
| Reg Measure Type: | Unregulated |
| Region: | 3 |
| Order #: | Not reported |
| Npdes# CA#: | Not reported |
| Major-Minor: | Not reported |
| Npdes Type: | Not reported |
| Reclamation: | Not reported |
| Dredge Fill Fee: | Not reported |
| 301H: | Not reported |
| Application Fee Amt Received: | Not reported |
| Status: | Never Active |
| Status Date: | 02/21/2013 |
| Effective Date: | Not reported |
| Expiration/Review Date: | Not reported |
| Termination Date: | Not reported |
| WDR Review - Amend: | Not reported |
| WDR Review - Revise/Renew: | Not reported |
| WDR Review - Rescind: | Not reported |
| WDR Review - No Action Required: | Not reported |
| WDR Review - Pending: | Not reported |
| WDR Review - Planned: | Not reported |
| Status Enrollee: | N |
| Individual/General: | I |
| Fee Code: | Not reported |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 222061 |
| Region: | 3 |
| Order / Resolution Number: | 94-115 |
| Enforcement Action Type: | Admin Civil Liability |
| Effective Date: | 10/14/1994 |
| Adoption/Issuance Date: | Not reported |
| Achieve Date: | 11/14/1994 |
| Termination Date: | Not reported |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | Enforcement - 3 440001N07 |
| Description: | ACL FOR FAILURE TO SUBMIT WORK PLAN AS REQUIRED BY JULY 28, 1994 LETTER. |

**KERAKACIN ENTERPRISES, INC. (Continued)** **U001602069**

| | |
|---|---|
| Program: | UNREGS |
| Latest Milestone Completion Date: | 11/14/1994 |
| # Of Programs1: | 1 |
| Total Assessment Amount: | 8000 |
| Initial Assessed Amount: | 0 |
| Liability $ Amount: | 8000 |
| Project $ Amount: | 0 |
| Liability $ Paid: | 8000 |
| Project $ Completed: | 0 |
| Total $ Paid/Completed Amount: | 8000 |

CERS:

| | |
|---|---|
| Name: | KERAKACIN ENTERPRISES, INC. |
| Address: | 90 MOUNT HERMON ROAD |
| City,State,Zip: | SCOTTS VALLEY, CA 95066-4733 |
| Site ID: | 475588 |
| CERS ID: | 110021093109 |
| CERS Description: | US EPA Air Emission Inventory System (EIS) |

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**L98** **SHELL OIL COMPANY** **Notify 65** **S100179387**
**ESE** **90 MT. HERMON** **N/A**
**1/4-1/2** **SCOTTS VALLEY, CA 93117**
**0.388 mi.**
**2051 ft.** **Site 6 of 6 in cluster L**

**Relative:**
**Higher**

**Actual:**
**534 ft.**

NOTIFY 65:

| | |
|---|---|
| Name: | SHELL OIL COMPANY |
| Address: | 90 MT. HERMON |
| City,State,Zip: | SCOTTS VALLEY, CA 93117 |
| 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 |

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**99** **SEAGATE TECHNOLOGY #2** **ENVIROSTOR** **S101482429**
**East** **920 DISC DRIVE** **EMI** **N/A**
**1/2-1** **SCOTTS VALLEY, CA 95066**
**0.854 mi.**
**4507 ft.**

**Relative:**
**Higher**

**Actual:**
**576 ft.**

ENVIROSTOR:

| | |
|---|---|
| Name: | SEAGATE TECHNOLOGY #2 |
| Address: | 920 DISC DRIVE |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Facility ID: | 44360014 |
| Status: | Refer: Other Agency |
| Status Date: | 03/25/1995 |
| Site Code: | Not reported |
| Site Type: | Historical |
| Site Type Detailed: | * Historical |
| Acres: | Not reported |

**SEAGATE TECHNOLOGY #2 (Continued)** **S101482429**

NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley
Assembly: 29
Senate: 17
Special Program: * Rural County Survey Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.04622
Longitude: -122.0157
APN: 022-111-12
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 022-111-12
Alias Type: APN
Alias Name: 44360014
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 08/18/1989
Comments: FACILITY IDENTIFIED CENTRAL VALLEY RWQCB SANTA CRUZ INCIDENT REPORT FILE: LEAKAGE TO DRAINAGEWAY OF METHELENE CHLORIDE; IMPROPER STORAGE

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

EMI:
Name: SEAGATE TECHNOLOGY, INC.
Address: 920 DISC DRIVE
City,State,Zip: SCOTTS VALLEY, CA 95066
Year: 1987
County Code: 44
Air Basin: NCC
Facility ID: 52
Air District Name: MBU
SIC Code: 3674
Air District Name: MONTEREY BAY UNIFIED APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 27
Reactive Organic Gases Tons/Yr: 0

**SEAGATE TECHNOLOGY #2 (Continued)** **S101482429**

| | |
|---|---|
| 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: | SEAGATE TECHNOLOGY, INC. |
| Address: | 920 DISC DRIVE |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Year: | 1990 |
| County Code: | 44 |
| Air Basin: | NCC |
| Facility ID: | 52 |
| Air District Name: | MBU |
| SIC Code: | 3674 |
| Air District Name: | MONTEREY BAY UNIFIED APCD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 22 |
| 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: | SEAGATE TECHNOLOGY, INC. |
| Address: | 920 DISC DRIVE |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Year: | 1995 |
| County Code: | 44 |
| Air Basin: | NCC |
| Facility ID: | 52 |
| Air District Name: | MBU |
| SIC Code: | 3674 |
| Air District Name: | MONTEREY BAY UNIFIED APCD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 2 |
| Reactive Organic Gases Tons/Yr: | 1 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | SEAGATE TECHNOLOGY, INC. |
| Address: | 920 DISC DRIVE |
| City,State,Zip: | SCOTTS VALLEY, CA 95066 |
| Year: | 1996 |
| County Code: | 44 |
| Air Basin: | NCC |
| Facility ID: | 52 |
| Air District Name: | MBU |
| SIC Code: | 3674 |
| Air District Name: | MONTEREY BAY UNIFIED APCD |
| Community Health Air Pollution Info System: | Not reported |

**SEAGATE TECHNOLOGY #2 (Continued)** **S101482429**

| | |
|---|---|
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 2 |
| Reactive Organic Gases Tons/Yr: | 1 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

Count: 3 records. ORPHAN SUMMARY

| City | EDR ID | Site Name | Site Address | Zip | Database(s) |
|---|---|---|---|---|---|
| SCOTTS VALLEY | S106455265 | MANANA WOODS WELL | KINGS VILLAGE RD | | CPS-SLIC |
| SCOTTS VALLEY | 1003878352 | SKY PARK ARPT | KINGS VILLAGE RD | 95066 | SEMS-ARCHIVE |
| SCOTTS VALLEY | 1003878760 | SCOTTS VALLEY AREA | SCOTTS VALLEY | 95066 | SEMS-ARCHIVE |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

**STANDARD ENVIRONMENTAL RECORDS**

***Federal NPL site list***

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 04/01/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 04/01/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

***Federal Delisted NPL site list***

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 04/01/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Quarterly

***Federal CERCLIS list***

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 03/30/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/01/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Quarterly

***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/01/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Quarterly

***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/23/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/23/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

***Federal RCRA generators list***

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/23/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/23/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/23/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

***Federal institutional controls / engineering controls registries***

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/09/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 39

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/08/2021
Next Scheduled EDR Contact: 05/24/2021
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/18/2020
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/23/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/18/2020
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/23/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Varies

***Federal ERNS list***

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/15/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 7

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/15/2020
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

***State- and tribal - equivalent NPL***

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

***State- and tribal - equivalent CERCLIS***

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/09/2020
Date Data Arrived at EDR: 11/10/2020
Date Made Active in Reports: 01/14/2021
Number of Days to Update: 65

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/09/2021
Next Scheduled EDR Contact: 05/24/2021
Data Release Frequency: Quarterly

***State and tribal leaking storage tank lists***

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Quarterly

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 REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 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 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 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 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

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/07/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/09/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/30/2020
Date Data Arrived at EDR: 12/22/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 80

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/02/2020
Date Data Arrived at EDR: 12/18/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 84

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

***State and tribal registered storage tank lists***

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/29/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 33
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/05/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 03/05/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 04/01/2021
Number of Days to Update: 23

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/12/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/02/2020
Date Data Arrived at EDR: 12/18/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 84

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/09/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/30/2020
Date Data Arrived at EDR: 12/22/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 80

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/07/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

***State and tribal voluntary cleanup sites***

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/22/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

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: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

***State and tribal Brownfields sites***

BROWNFIELDS: Considered Brownfieds Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 12/17/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 03/09/2021
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/23/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Brownfield lists***

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/11/2020
Date Data Arrived at EDR: 12/11/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/16/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: Semi-Annually

***Local Lists of Landfill / Solid Waste Disposal Sites***

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 04/21/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 03/09/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 11/23/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/08/2021
Next Scheduled EDR Contact: 05/24/2021
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/22/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
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: 01/29/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

***Local Lists of Hazardous waste / Contaminated Sites***

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 12/07/2020
Date Data Arrived at EDR: 12/09/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 83

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Varies

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 01/20/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
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: 12/07/2020
Date Data Arrived at EDR: 12/09/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 83

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 12/07/2020
Date Data Arrived at EDR: 12/08/2020
Date Made Active in Reports: 02/22/2021
Number of Days to Update: 76

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

***Local Lists of Registered Storage Tanks***

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 11/05/2020
Date Data Arrived at EDR: 11/06/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 81

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 01/20/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

***Local Land Records***

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 11/24/2020
Date Data Arrived at EDR: 11/30/2020
Date Made Active in Reports: 02/10/2021
Number of Days to Update: 72

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/01/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 11/30/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/12/2021
Number of Days to Update: 73
Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 03/03/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Semi-Annually

***Records of Emergency Release Reports***

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/16/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 85
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/24/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78
Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22
Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

***Other Ascertainable Records***

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/23/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 47

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/17/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/16/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/05/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/09/2021
Next Scheduled EDR Contact: 05/24/2021
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/23/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/02/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/05/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/19/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/02/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 01/20/2021
Date Data Arrived at EDR: 01/21/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 60

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 35

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 04/01/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 11/02/2020
Date Data Arrived at EDR: 11/12/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 74

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/19/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/05/2021
Number of Days to Update: 50
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 03/11/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/19/2020
Date Data Arrived at EDR: 01/08/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 73
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/09/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 03/31/2021
Next Scheduled EDR Contact: 07/19/2021
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: 08/05/2020
Date Data Arrived at EDR: 08/10/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 59
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 04/16/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 70
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 03/05/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/02/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/05/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 03/25/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline 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: 04/27/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/13/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 68

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/05/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 151

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 03/23/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/06/2021
Next Scheduled EDR Contact: 07/19/2021
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: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 02/02/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/18/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 04/01/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: 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

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 11/24/2020
Date Data Arrived at EDR: 11/30/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 56

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 03/01/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 63

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/24/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 12/11/2020
Date Data Arrived at EDR: 12/11/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 81

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/10/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/03/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 33

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 03/03/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 07/02/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 77

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 04/13/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 01/02/2021
Date Data Arrived at EDR: 01/08/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 04/06/2021
Next Scheduled EDR Contact: 07/19/2021
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: 11/03/2020
Date Data Arrived at EDR: 11/17/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/17/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 33

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/17/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 12/17/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 03/09/2021
Number of Days to Update: 82

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/23/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 02/12/2021
Next Scheduled EDR Contact: 05/24/2021
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 11/23/2020
Date Data Arrived at EDR: 11/24/2020
Date Made Active in Reports: 02/10/2021
Number of Days to Update: 78

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 11/17/2020
Date Data Arrived at EDR: 11/18/2020
Date Made Active in Reports: 02/04/2021
Number of Days to Update: 78

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 11/23/2020
Date Data Arrived at EDR: 11/25/2020
Date Made Active in Reports: 02/10/2021
Number of Days to Update: 77

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 06/16/2020
Date Made Active in Reports: 08/28/2020
Number of Days to Update: 73

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/19/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/09/2021
Number of Days to Update: 79

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 11/13/2020
Date Made Active in Reports: 01/29/2021
Number of Days to Update: 77

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 02/08/2021
Next Scheduled EDR Contact: 05/24/2021
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 04/15/2020
Date Made Active in Reports: 07/02/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/09/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/13/2020
Date Data Arrived at EDR: 11/13/2020
Date Made Active in Reports: 02/01/2021
Number of Days to Update: 80

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 02/17/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/13/2020
Date Data Arrived at EDR: 11/13/2020
Date Made Active in Reports: 02/01/2021
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/17/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 01/05/2021
Date Data Arrived at EDR: 01/05/2021
Date Made Active in Reports: 03/18/2021
Number of Days to Update: 72

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/06/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 10/30/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/12/2021
Number of Days to Update: 73
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 03/03/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/09/2020
Date Data Arrived at EDR: 11/10/2020
Date Made Active in Reports: 01/27/2021
Number of Days to Update: 78
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/09/2021
Next Scheduled EDR Contact: 05/24/2021
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 11/30/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/12/2021
Number of Days to Update: 73
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 03/03/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/09/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 12/07/2020
Date Data Arrived at EDR: 12/09/2020
Date Made Active in Reports: 12/10/2020
Number of Days to Update: 1
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 03/12/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 11/19/2019
Date Data Arrived at EDR: 01/07/2020
Date Made Active in Reports: 03/09/2020
Number of Days to Update: 62

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/09/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 03/19/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 03/09/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 11/30/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/12/2021
Number of Days to Update: 73

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 03/03/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 01/20/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

HWTS: Hazardous Waste Tracking System
DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 04/08/2021
Date Data Arrived at EDR: 04/09/2021
Date Made Active in Reports: 04/20/2021
Number of Days to Update: 11

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 04/05/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Varies

PCS: Permit Compliance System
PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 03/31/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Semi-Annually

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 03/31/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Varies

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/31/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Semi-Annually

**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: 03/31/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 03/17/2021
Date Data Arrived at EDR: 03/18/2021
Date Made Active in Reports: 03/25/2021
Number of Days to Update: 7

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 03/17/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 02/02/2021
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 78

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 03/31/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 12/15/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 12/24/2020
Number of Days to Update: 8

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/16/2021
Number of Days to Update: 80

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 12/17/2020
Date Data Arrived at EDR: 01/28/2021
Date Made Active in Reports: 04/16/2021
Number of Days to Update: 78

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 04/21/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 10/22/2020
Date Data Arrived at EDR: 11/03/2020
Date Made Active in Reports: 01/20/2021
Number of Days to Update: 78

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 04/21/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 01/14/2021
Date Data Arrived at EDR: 01/15/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 80

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 04/01/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 11/18/2020
Date Data Arrived at EDR: 11/19/2020
Date Made Active in Reports: 02/04/2021
Number of Days to Update: 77

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 01/19/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 10/29/2020
Date Data Arrived at EDR: 10/30/2020
Date Made Active in Reports: 01/15/2021
Number of Days to Update: 77

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 01/19/2021
Date Data Arrived at EDR: 01/21/2021
Date Made Active in Reports: 01/28/2021
Number of Days to Update: 7

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 02/10/2021
Date Data Arrived at EDR: 02/12/2021
Date Made Active in Reports: 03/11/2021
Number of Days to Update: 27

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/07/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 03/12/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 01/11/2021
Date Data Arrived at EDR: 01/12/2021
Date Made Active in Reports: 03/25/2021
Number of Days to Update: 72

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/05/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/11/2021
Date Data Arrived at EDR: 01/12/2021
Date Made Active in Reports: 03/26/2021
Number of Days to Update: 73

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/13/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 08/17/2020
Date Made Active in Reports: 11/05/2020
Number of Days to Update: 80

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/07/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory

A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/26/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 02/04/2021
Date Data Arrived at EDR: 04/16/2021
Date Made Active in Reports: 04/21/2021
Number of Days to Update: 5

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 04/16/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/26/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory

A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/26/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 01/12/2021
Date Made Active in Reports: 03/26/2021
Number of Days to Update: 73

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/16/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/07/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 09/11/2020
Date Data Arrived at EDR: 10/07/2020
Date Made Active in Reports: 12/23/2020
Number of Days to Update: 77

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 03/25/2021
Next Scheduled EDR Contact: 07/12/2021
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: 12/21/2020
Date Data Arrived at EDR: 12/21/2020
Date Made Active in Reports: 03/10/2021
Number of Days to Update: 79

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/04/2021
Date Data Arrived at EDR: 02/09/2021
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 9

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 01/29/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 11/16/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/3021
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 01/08/2021
Date Data Arrived at EDR: 01/12/2021
Date Made Active in Reports: 03/25/2021
Number of Days to Update: 72

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 03/25/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/03/2021
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 78

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 04/21/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/01/2021
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 78

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 09/01/2020
Date Data Arrived at EDR: 11/06/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 81

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/05/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/01/2021
Date Data Arrived at EDR: 02/02/2021
Date Made Active in Reports: 04/20/2021
Number of Days to Update: 77

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/02/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 11/24/2020
Date Data Arrived at EDR: 11/24/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 1

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/10/2021
Number of Days to Update: 55

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/15/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/10/2021
Number of Days to Update: 55

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/15/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/18/2020
Date Data Arrived at EDR: 03/31/2020
Date Made Active in Reports: 06/15/2020
Number of Days to Update: 76

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/31/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/24/2020
Date Data Arrived at EDR: 03/31/2020
Date Made Active in Reports: 06/17/2020
Number of Days to Update: 78

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/01/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 10/30/2020
Date Made Active in Reports: 01/15/2021
Number of Days to Update: 77

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 11/16/2020
Date Data Arrived at EDR: 11/18/2020
Date Made Active in Reports: 02/04/2021
Number of Days to Update: 78

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 11/30/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/16/2021
Number of Days to Update: 77

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/03/2021
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/14/2020
Date Data Arrived at EDR: 07/16/2020
Date Made Active in Reports: 09/29/2020
Number of Days to Update: 75

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 11/05/2020
Date Data Arrived at EDR: 11/06/2020
Date Made Active in Reports: 01/27/2021
Number of Days to Update: 82

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/05/2020
Date Data Arrived at EDR: 11/06/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 81

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/12/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 11/13/2020
Date Made Active in Reports: 02/01/2021
Number of Days to Update: 80

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/12/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/08/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 11/20/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/05/2021
Number of Days to Update: 74

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 12/03/2020
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 77

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/12/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 12/15/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 12/23/2020
Number of Days to Update: 7

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/19/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/05/2021
Date Data Arrived at EDR: 01/06/2021
Date Made Active in Reports: 03/18/2021
Number of Days to Update: 71

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/19/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 10/06/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 77

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 04/21/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 11/23/2020
Date Data Arrived at EDR: 11/24/2020
Date Made Active in Reports: 02/10/2021
Number of Days to Update: 78

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 04/06/2021
Number of Days to Update: 82

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 01/19/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 02/02/2021
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 78

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 12/28/2020
Date Data Arrived at EDR: 01/29/2021
Date Made Active in Reports: 04/22/2021
Number of Days to Update: 83

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/19/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/25/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/08/2021
Next Scheduled EDR Contact: 05/24/2021
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 03/29/2021
Date Data Arrived at EDR: 04/21/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 2

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/19/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 12/21/2020
Date Data Arrived at EDR: 12/23/2020
Date Made Active in Reports: 01/04/2021
Number of Days to Update: 12

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/26/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 01/26/2021
Date Data Arrived at EDR: 01/28/2021
Date Made Active in Reports: 02/03/2021
Number of Days to Update: 6

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 04/24/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

**OTHER DATABASE(S)**

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 10/20/2020
Date Made Active in Reports: 11/02/2020
Number of Days to Update: 13

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/12/2021
Next Scheduled EDR Contact: 05/24/2021
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/09/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/29/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/29/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 04/09/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 02/24/2021
Number of Days to Update: 13

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/09/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/08/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

**STREET AND ADDRESS INFORMATION**

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# GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

**TARGET PROPERTY ADDRESS**

VALLEY GARDENS GOLF COURSE
263 MOUNT HERMON ROAD
SCOTTS VALLEY, CA 95066

**TARGET PROPERTY COORDINATES**

| | |
|---|---|
| Latitude (North): | 37.045219 - 37° 2' 42.79'' |
| Longitude (West): | 122.033927 - 122° 2' 2.14'' |
| Universal Tranverse Mercator: | Zone 10 |
| UTM X (Meters): | 585909.7 |
| UTM Y (Meters): | 4100121.8 |
| Elevation: | 520 ft. above sea level |

**USGS TOPOGRAPHIC MAP**

| | |
|---|---|
| Target Property Map: | 5640612 FELTON, 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).

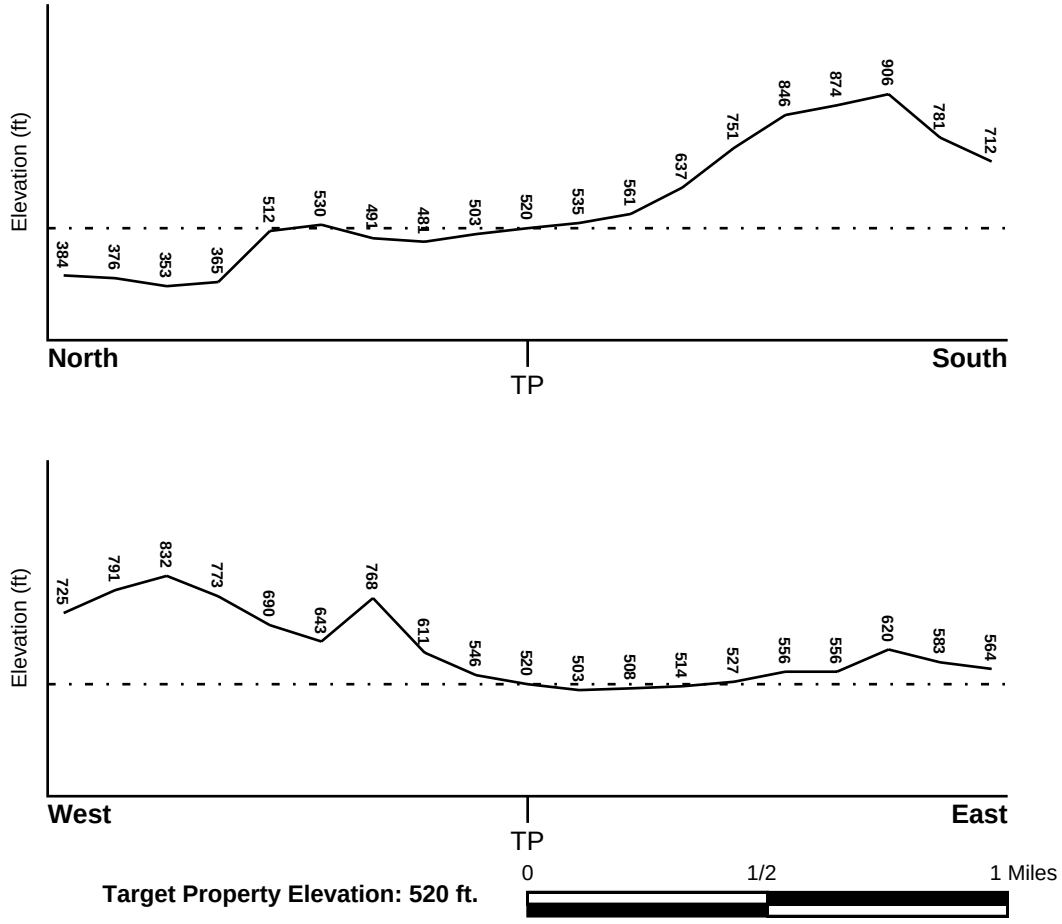
**TOPOGRAPHIC INFORMATION**

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 NE

**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 |
|---|---|
| 06087C0216E | FEMA FIRM Flood data |

| Additional Panels in search area: | FEMA Source Type |
|---|---|
| 06087C0217E | FEMA FIRM Flood data |
| 06087C0218E | FEMA FIRM Flood data |
| 06087C0219E | FEMA FIRM Flood data |

**NATIONAL WETLAND INVENTORY**

| NWI Quad at Target Property | NWI Electronic Data Coverage |
|---|---|
| FELTON | 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**

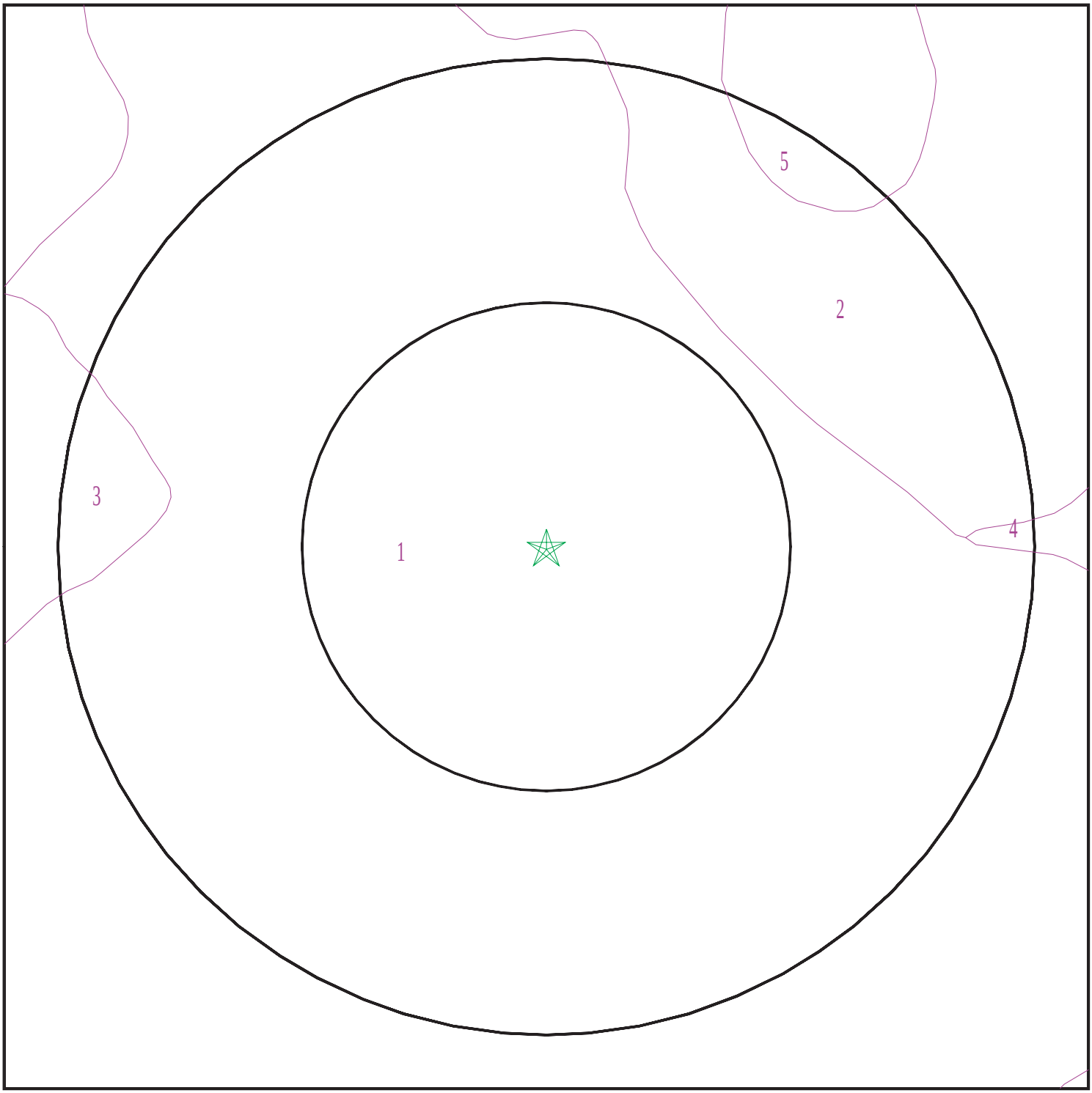
| | |
|---|---|
| Era: | Cenozoic |
| System: | Tertiary |
| Series: | Miocene |
| Code: | Tm *(decoded above as Era, System & Series)* |

**GEOLOGIC AGE IDENTIFICATION**

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 06469411.2r




Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

| | | | |
|---|---|---|---|
| SITE NAME: | Valley Gardens Golf Course | CLIENT: | Ramboll |
| ADDRESS: | 263 Mount Hermon Road<br>Scotts Valley CA 95066 | CONTACT: | Michael Gaffney |
| LAT/LONG: | 37.045219 / 122.033927 | INQUIRY #: | 06469411.2r |
| | | DATE: | April 28, 2021 9:50 am |

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# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY**

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

---

**Soil Map ID: 1**

Soil Component Name: ZAYANTE

Soil Surface Texture: coarse sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

| Soil Layer Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Boundary | | | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 29 inches | coarse sand | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141<br>Min: 42 | Max: 7.3<br>Min: 4.5 |
| 2 | 29 inches | 59 inches | coarse sand | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141<br>Min: 42 | Max: 7.3<br>Min: 4.5 |

---

**Soil Map ID: 2**

Soil Component Name: ELKHORN

Soil Surface Texture: sandy 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: Well drained

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

| Soil Layer Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Boundary | | | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 20 inches | sandy loam | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay | Max: 4<br>Min: 1.4 | Max: 7.8<br>Min: 5.6 |
| 2 | 20 inches | 61 inches | sandy clay loam | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay | Max: 4<br>Min: 1.4 | Max: 7.8<br>Min: 5.6 |

---

**Soil Map ID: 3**

Soil Component Name: ZAYANTE

Soil Surface Texture: coarse sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

| Soil Layer Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Boundary | | | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 29 inches | coarse sand | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141<br>Min: 42 | Max: 7.3<br>Min: 4.5 |
| 2 | 29 inches | 59 inches | coarse sand | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141<br>Min: 42 | Max: 7.3<br>Min: 4.5 |

---

**Soil Map ID: 4**

Soil Component Name: ELDER

Soil Surface Texture: sandy 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: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

| Soil Layer Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Boundary | | | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 31 inches | sandy loam | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 14<br>Min: 4 | Max: 7.8<br>Min: 5.6 |

| Soil Layer Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Boundary | | | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 2 | 31 inches | 59 inches | sandy loam | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 14<br>Min: 4 | Max: 7.8<br>Min: 5.6 |

---

**Soil Map ID: 5**

Soil Component Name: WATSONVILLE

Soil Surface Texture: loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 114 inches

| Soil Layer Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Boundary | | | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 18 inches | loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay | Max: 1.4<br>Min: 0.42 | Max: 8.4<br>Min: 5.6 |
| 2 | 18 inches | 38 inches | clay | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay | Max: 1.4<br>Min: 0.42 | Max: 8.4<br>Min: 5.6 |

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

| Soil Layer Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Boundary | | | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 3 | 38 inches | 62 inches | sandy clay loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay | Max: 1.4<br>Min: 0.42 | Max: 8.4<br>Min: 5.6 |

**LOCAL / REGIONAL WATER AGENCY RECORDS**

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

**WELL SEARCH DISTANCE INFORMATION**

| DATABASE | SEARCH DISTANCE (miles) |
|---|---|
| Federal USGS | 1.000 |
| Federal FRDS PWS | Nearest PWS within 1.000 miles |
| State Database | 1.000 |

**FEDERAL USGS WELL INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| L65 | USGS40000180720 | 1/4 - 1/2 Mile NNW |
| L66 | USGS40000180719 | 1/4 - 1/2 Mile NNW |
| O77 | USGS40000180730 | 1/4 - 1/2 Mile NE |

**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 |
|---|---|---|

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**STATE DATABASE WELL INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| A1 | CADDW0000017215 | 0 - 1/8 Mile South |
| B2 | 10083 | 0 - 1/8 Mile NNE |
| A3 | 10094 | 0 - 1/8 Mile SW |
| 4 | 10086 | 0 - 1/8 Mile West |
| B5 | CADDW0000008718 | 0 - 1/8 Mile NE |
| B6 | CADDW0000001530 | 0 - 1/8 Mile NE |
| C7 | CADDW0000017950 | 1/8 - 1/4 Mile South |
| C8 | CADDW0000007127 | 1/8 - 1/4 Mile South |
| C9 | 10090 | 1/8 - 1/4 Mile SSW |
| C10 | 10091 | 1/8 - 1/4 Mile SSW |
| D11 | CAEDF0000110763 | 1/8 - 1/4 Mile NE |
| D12 | CAEDF0000042678 | 1/8 - 1/4 Mile NE |
| D13 | CAEDF0000095375 | 1/8 - 1/4 Mile NNE |
| D14 | CAEDF0000021881 | 1/8 - 1/4 Mile NNE |
| D15 | CAEDF0000137886 | 1/8 - 1/4 Mile NNE |
| D16 | CAEDF0000106161 | 1/8 - 1/4 Mile NNE |
| D17 | CAEDF0000140652 | 1/8 - 1/4 Mile NNE |
| D18 | CAEDF0000142083 | 1/8 - 1/4 Mile NNE |
| D19 | CAEDF0000054641 | 1/8 - 1/4 Mile NNE |
| D20 | CAEDF0000063878 | 1/8 - 1/4 Mile NNE |
| D21 | CAEDF0000129951 | 1/8 - 1/4 Mile NNE |
| D22 | CAEDF0000011271 | 1/8 - 1/4 Mile NNE |
| D23 | CAEDF0000006789 | 1/8 - 1/4 Mile NNE |
| 24 | CADPR0000003699 | 1/8 - 1/4 Mile East |
| D25 | CAEDF0000050090 | 1/8 - 1/4 Mile NNE |
| E26 | CAEDF0000120073 | 1/8 - 1/4 Mile North |
| D27 | CAEDF0000020259 | 1/8 - 1/4 Mile NNE |
| 28 | CADPR0000003337 | 1/8 - 1/4 Mile SE |
| E29 | CAEDF0000133701 | 1/8 - 1/4 Mile NNE |
| D30 | CAEDF0000037337 | 1/8 - 1/4 Mile NNE |
| D31 | CAEDF0000054564 | 1/8 - 1/4 Mile NNE |
| D32 | CAEDF0000055303 | 1/8 - 1/4 Mile NNE |
| D33 | CAEDF0000086252 | 1/8 - 1/4 Mile NNE |
| E34 | CAEDF0000142042 | 1/8 - 1/4 Mile NNE |
| F35 | 10095 | 1/8 - 1/4 Mile South |
| F36 | CADDW0000014443 | 1/4 - 1/2 Mile South |
| F37 | 10096 | 1/4 - 1/2 Mile SSW |
| F38 | 10097 | 1/4 - 1/2 Mile SSW |
| G39 | CADPR0000000617 | 1/4 - 1/2 Mile ENE |
| H40 | CADDW0000021625 | 1/4 - 1/2 Mile SW |
| E41 | CADWR0000012940 | 1/4 - 1/2 Mile North |
| G42 | 10087 | 1/4 - 1/2 Mile ENE |
| I43 | CADDW0000008610 | 1/4 - 1/2 Mile SSE |
| I44 | CADDW0000015632 | 1/4 - 1/2 Mile SSE |
| G45 | CAEDF0000142804 | 1/4 - 1/2 Mile ENE |
| G46 | CAEDF0000063857 | 1/4 - 1/2 Mile ENE |
| G47 | CAEDF0000117489 | 1/4 - 1/2 Mile ENE |
| G48 | CAEDF0000043316 | 1/4 - 1/2 Mile ENE |
| H49 | 10092 | 1/4 - 1/2 Mile SW |
| H50 | 10093 | 1/4 - 1/2 Mile SW |
| J51 | 10089 | 1/4 - 1/2 Mile North |
| G52 | CAEDF0000051335 | 1/4 - 1/2 Mile ENE |

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**STATE DATABASE WELL INFORMATION**

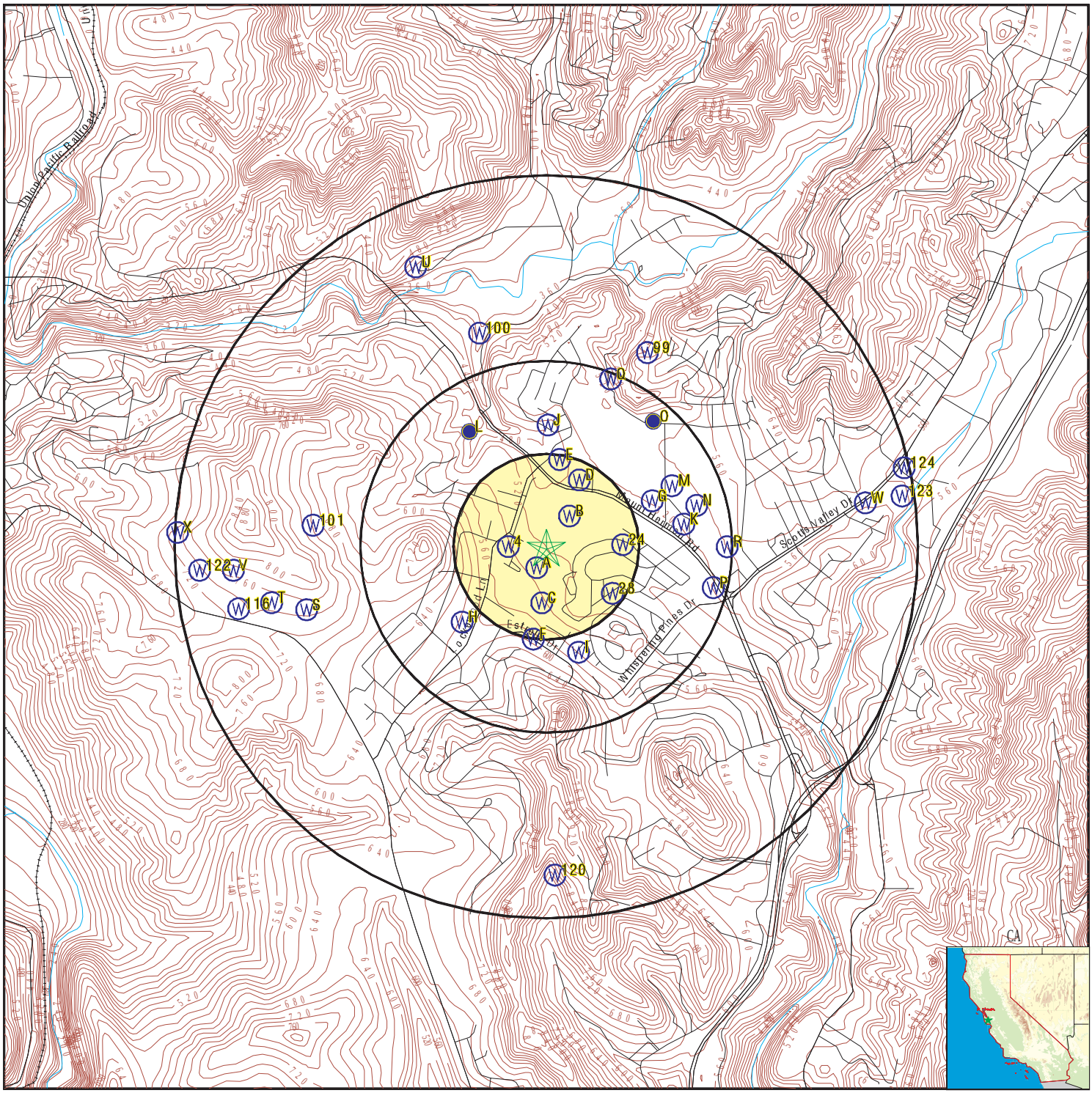
| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| G53 | CAEDF0000086383 | 1/4 - 1/2 Mile ENE |
| G54 | CAEDF0000092433 | 1/4 - 1/2 Mile ENE |
| J55 | CADDW0000014053 | 1/4 - 1/2 Mile North |
| K56 | CAEDF0000069825 | 1/4 - 1/2 Mile East |
| K57 | CAEDF0000142726 | 1/4 - 1/2 Mile East |
| K58 | CAEDF0000127683 | 1/4 - 1/2 Mile East |
| L59 | CADWR8000032369 | 1/4 - 1/2 Mile NW |
| L60 | CADWR8000032370 | 1/4 - 1/2 Mile NW |
| L61 | CAUSGSN00006563 | 1/4 - 1/2 Mile NNW |
| M62 | CAEDF0000005189 | 1/4 - 1/2 Mile ENE |
| M63 | CAEDF0000083844 | 1/4 - 1/2 Mile ENE |
| M64 | CAEDF0000119925 | 1/4 - 1/2 Mile ENE |
| K67 | CAEDF0000053041 | 1/4 - 1/2 Mile ENE |
| K68 | CAEDF0000133226 | 1/4 - 1/2 Mile ENE |
| K69 | CAEDF0000018732 | 1/4 - 1/2 Mile East |
| K70 | CAEDF0000001204 | 1/4 - 1/2 Mile East |
| N71 | CAEDF0000097296 | 1/4 - 1/2 Mile ENE |
| N72 | CAEDF0000034195 | 1/4 - 1/2 Mile ENE |
| N73 | CAEDF0000109180 | 1/4 - 1/2 Mile ENE |
| O74 | CADDW0000009929 | 1/4 - 1/2 Mile NE |
| O75 | CAUSGSN00010484 | 1/4 - 1/2 Mile NE |
| O76 | CAUSGS000002708 | 1/4 - 1/2 Mile NE |
| P78 | CAEDF0000089153 | 1/4 - 1/2 Mile ESE |
| Q79 | 10084 | 1/4 - 1/2 Mile NNE |
| P80 | CAEDF0000098951 | 1/4 - 1/2 Mile ESE |
| P81 | CAEDF0000024134 | 1/4 - 1/2 Mile ESE |
| P82 | CAEDF0000015549 | 1/4 - 1/2 Mile ESE |
| P83 | CAEDF0000057716 | 1/4 - 1/2 Mile ESE |
| P84 | CAEDF0000006941 | 1/4 - 1/2 Mile ESE |
| P85 | CAEDF0000062148 | 1/4 - 1/2 Mile ESE |
| P86 | CAEDF0000138804 | 1/4 - 1/2 Mile ESE |
| P87 | CAEDF0000031856 | 1/4 - 1/2 Mile ESE |
| P88 | CAEDF0000129190 | 1/4 - 1/2 Mile ESE |
| P89 | CAEDF0000022171 | 1/4 - 1/2 Mile ESE |
| P90 | CAEDF0000072509 | 1/4 - 1/2 Mile ESE |
| R91 | 22543 | 1/4 - 1/2 Mile East |
| R92 | 10088 | 1/4 - 1/2 Mile East |
| P93 | CAEDF0000101113 | 1/4 - 1/2 Mile ESE |
| P94 | CAEDF0000140739 | 1/4 - 1/2 Mile ESE |
| P95 | CAEDF0000112412 | 1/4 - 1/2 Mile ESE |
| P96 | CAEDF0000004219 | 1/4 - 1/2 Mile ESE |
| Q97 | CADDW0000012121 | 1/2 - 1 Mile NNE |
| R98 | CADDW0000015031 | 1/2 - 1 Mile East |
| 99 | CADWR0000030532 | 1/2 - 1 Mile NNE |
| 100 | 10085 | 1/2 - 1 Mile NNW |
| 101 | 19971 | 1/2 - 1 Mile West |
| S102 | 19972 | 1/2 - 1 Mile WSW |
| S103 | CADDW0000017192 | 1/2 - 1 Mile WSW |
| S104 | CADDW0000020179 | 1/2 - 1 Mile WSW |
| T105 | CADDW0000012766 | 1/2 - 1 Mile WSW |
| T106 | CADDW0000003833 | 1/2 - 1 Mile West |
| T107 | 10081 | 1/2 - 1 Mile WSW |

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**STATE DATABASE WELL INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| U108 | CAEDF0000010063 | 1/2 - 1 Mile NNW |
| V109 | CADDW0000022520 | 1/2 - 1 Mile West |
| U110 | CAEDF0000083677 | 1/2 - 1 Mile NNW |
| U111 | CAEDF0000122290 | 1/2 - 1 Mile NNW |
| W112 | CADWR8000032347 | 1/2 - 1 Mile East |
| U113 | CAEDF0000059374 | 1/2 - 1 Mile NNW |
| V114 | CAUSGS000002760 | 1/2 - 1 Mile West |
| V115 | CAUSGSN00005095 | 1/2 - 1 Mile West |
| 116 | CADDW0000009456 | 1/2 - 1 Mile WSW |
| U117 | CAEDF0000033281 | 1/2 - 1 Mile NNW |
| V118 | CADDW0000001872 | 1/2 - 1 Mile West |
| V119 | 10080 | 1/2 - 1 Mile West |
| 120 | CADDW0000007256 | 1/2 - 1 Mile South |
| W121 | 10037 | 1/2 - 1 Mile East |
| 122 | CADDW0000003686 | 1/2 - 1 Mile West |
| 123 | CADDW0000006956 | 1/2 - 1 Mile East |
| 124 | CAEDF0000117431 | 1/2 - 1 Mile ENE |
| X125 | 19962 | 1/2 - 1 Mile West |
| X126 | 10082 | 1/2 - 1 Mile West |

# PHYSICAL SETTING SOURCE MAP - 06469411.2r




- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

| | | | |
|---|---|---|---|
| SITE NAME: | Valley Gardens Golf Course | CLIENT: | Ramboll |
| ADDRESS: | 263 Mount Hermon Road<br>Scotts Valley CA 95066 | CONTACT: | Michael Gaffney |
| LAT/LONG: | 37.045219 / 122.033927 | INQUIRY #: | 06469411.2r |
| | | DATE: | April 28, 2021 9:50 am |

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# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

| | Database | EDR ID Number |
|---|---|---|
| **A1**<br>**South**<br>**0 - 1/8 Mile**<br>**Higher** | **CA WELLS** | **CADDW0000017215** |

| | | | |
|---|---|---|---|
| Well ID: | 4410003-005 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | WELL 05 | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=4410003-005&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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| | Database | |
|---|---|---|
| **B2**<br>**NNE**<br>**0 - 1/8 Mile**<br>**Lower** | **CA WELLS** | **10083** |

| | | | |
|---|---|---|---|
| Seq: | 10083 | Prim sta c: | 10S/02W-24C02 M |
| Frds no: | 4410013011 | County: | 44 |
| District: | 05 | User id: | HEN |
| System no: | 4410013 | Water type: | G |
| Source nam: | WELL 09 | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 370246.5 | Longitude: | 1220156.5 |
| Precision: | 3 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |

| | | | |
|---|---|---|---|
| System no: | 4410013 | System nam: | Scotts Valley Water District |
| Hqname: | Not Reported | Address: | P.O. BOX 660006 |
| City: | SCOTTS VALLEY | State: | CA |
| Zip: | 95066 | Zip ext: | Not Reported |
| Pop serv: | 8688 | Connection: | 2977 |
| Area serve: | SCOTTS VALLEY & VIC | | |

| | | | |
|---|---|---|---|
| Sample date: | 15-MAR-18 | Finding: | 5.8e-002 |
| Chemical: | PHOSPHATE, ORTHO | Report units: | MG/L |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 15-MAR-18 | Finding: | 84. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 15-MAR-18 | Finding: | 12. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 15-MAR-18 | Finding: | 100. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 15-MAR-18 | Finding: | 650. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 15-MAR-18 | Finding: | 32. |
| Chemical: | CHLORIDE | Report units: | MG/L |

| | | | |
|---|---|---|---|
| Dlr: | 0. | | |
| Sample date: | 15-MAR-18 | Finding: | 270. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 15-MAR-18 | Finding: | 22. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 15-MAR-18 | Finding: | 3.2 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 28-AUG-17 | Finding: | 5.5e-002 |
| Chemical: | PHOSPHATE, ORTHO | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 28-AUG-17 | Finding: | 83. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 28-AUG-17 | Finding: | 12. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 28-AUG-17 | Finding: | 110. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 28-AUG-17 | Finding: | 3.2 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 28-AUG-17 | Finding: | 0.12 |
| Chemical: | DCPA (TOTAL DI & MONO ACID DEGRADATES) | | |
| Report units: | UG/L | Dlr: | 0. |
| Sample date: | 28-AUG-17 | Finding: | 270. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 28-AUG-17 | Finding: | 23. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 28-AUG-17 | Finding: | 74. |
| Chemical: | ZINC | Report units: | UG/L |
| Dlr: | 50. | | |
| Sample date: | 28-AUG-17 | Finding: | 3.3 |
| Chemical: | METHYL-TERT-BUTYL-ETHER (MTBE) | Report units: | UG/L |
| Dlr: | 3. | | |
| Sample date: | 28-AUG-17 | Finding: | 670. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 28-AUG-17 | Finding: | 30. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 10-NOV-15 | Finding: | 1.4 |
| Chemical: | TURBIDITY, LABORATORY | Report units: | NTU |
| Dlr: | 0.1 | | |
| Sample date: | 10-NOV-15 | Finding: | 17. |
| Chemical: | ODOR THRESHOLD @ 60 C | Report units: | TON |
| Dlr: | 1. | | |
| Sample date: | 10-NOV-15 | Finding: | 0.12 |
| Chemical: | DCPA (TOTAL DI & MONO ACID DEGRADATES) | | |
| Report units: | UG/L | Dlr: | 0. |
| Sample date: | 09-NOV-15 | Finding: | 200. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 09-NOV-15 | Finding: | 13. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 09-NOV-15 | Finding: | 880. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 09-NOV-15 | Finding: | 0.61 |
| Chemical: | TRICHLOROETHYLENE | Report units: | UG/L |
| Dlr: | 0.5 | | |
| Sample date: | 09-NOV-15 | Finding: | 0.11 |
| Chemical: | FOAMING AGENTS (MBAS) | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 09-NOV-15 | Finding: | 0.12 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dlr: | 0.1 | | |
| Sample date: | 09-NOV-15 | Finding: | 400. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 09-NOV-15 | Finding: | 45. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 09-NOV-15 | Finding: | 4.3 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 09-NOV-15 | Finding: | 210. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 09-NOV-15 | Finding: | 12. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 09-NOV-15 | Finding: | 63. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 09-NOV-15 | Finding: | 210. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |

| | | | |
|---|---|---|---|
| Dlr: | 0. | | |
| Sample date: | 09-NOV-15 | Finding: | 9.2e-002 |
| Chemical: | PHOSPHATE, ORTHO | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 09-NOV-15 | Finding: | 1300. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 09-NOV-15 | Finding: | 8. |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 09-NOV-15 | Finding: | 240. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-JAN-15 | Finding: | 180. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-JAN-15 | Finding: | 1000. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 13-JAN-15 | Finding: | 7.8 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 13-JAN-15 | Finding: | 12. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 13-JAN-15 | Finding: | 730. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-JAN-15 | Finding: | 0.11 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dlr: | 0.1 | | |
| Sample date: | 13-JAN-15 | Finding: | 220. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-JAN-15 | Finding: | 34. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-JAN-15 | Finding: | 3.8 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-JAN-15 | Finding: | 140. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-JAN-15 | Finding: | 12. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |

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|---|---|---|---|
| Sample date: | 13-JAN-15 | Finding: | 78. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-JAN-15 | Finding: | 240. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-JAN-15 | Finding: | 300. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 05-NOV-14 | Finding: | 92. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 05-NOV-14 | Finding: | 13. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 05-NOV-14 | Finding: | 35. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 05-NOV-14 | Finding: | 240. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 05-NOV-14 | Finding: | 23. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 05-NOV-14 | Finding: | 5.8e-002 |
| Chemical: | FOAMING AGENTS (MBAS) | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 05-NOV-14 | Finding: | 620. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 05-NOV-14 | Finding: | 11. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 05-NOV-14 | Finding: | 79. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 05-NOV-14 | Finding: | 240. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 05-NOV-14 | Finding: | 5.5e-002 |
| Chemical: | PHOSPHATE, ORTHO | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 05-NOV-14 | Finding: | 210. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 05-NOV-14 | Finding: | 170. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |

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|---|---|---|---|
| Dlr: | 0. | | |
| Sample date: | 05-NOV-14 | Finding: | 7.9 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 05-NOV-14 | Finding: | 910. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 05-NOV-14 | Finding: | 2.8 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-AUG-14 | Finding: | 12. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-AUG-14 | Finding: | 81. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-AUG-14 | Finding: | 250. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-AUG-14 | Finding: | 9.5e-002 |
| Chemical: | PHOSPHATE, ORTHO | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-AUG-14 | Finding: | 190. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-AUG-14 | Finding: | 160. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-AUG-14 | Finding: | 7.9 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 12-AUG-14 | Finding: | 850. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 12-AUG-14 | Finding: | 85. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-AUG-14 | Finding: | 12. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 12-AUG-14 | Finding: | 3900. |
| Chemical: | CARBON DIOXIDE | Report units: | UG/L |
| Dlr: | 0. | | |
| Sample date: | 12-AUG-14 | Finding: | 510. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |

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|---|---|---|---|
| Sample date: | 12-AUG-14 | Finding: | 25. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 12-AUG-14 | Finding: | 130. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 12-AUG-14 | Finding: | 220. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 12-AUG-14 | Finding: | 31. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-AUG-14 | Finding: | 2.9 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 28-MAY-14 | Finding: | 0.25 |
| Chemical: | DCPA (TOTAL DI & MONO ACID DEGRADATES) | | |
| Report units: | UG/L | Dlr: | 0. |
| Sample date: | 20-MAY-14 | Finding: | 600. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 20-MAY-14 | Finding: | 23. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 20-MAY-14 | Finding: | 210. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 20-MAY-14 | Finding: | 33. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 20-MAY-14 | Finding: | 3. |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 20-MAY-14 | Finding: | 82. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 20-MAY-14 | Finding: | 830. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 20-MAY-14 | Finding: | 7.9 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 20-MAY-14 | Finding: | 140. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 20-MAY-14 | Finding: | 170. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |

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|---|---|---|---|
| Dlr: | 0. | | |
| Sample date: | 20-MAY-14 | Finding: | 7.3e-002 |
| Chemical: | PHOSPHATE, ORTHO | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 20-MAY-14 | Finding: | 250. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 20-MAY-14 | Finding: | 82. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 20-MAY-14 | Finding: | 12. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 20-MAY-14 | Finding: | 12. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 20-MAY-14 | Finding: | 3500. |
| Chemical: | CARBON DIOXIDE | Report units: | UG/L |
| Dlr: | 0. | | |
| Sample date: | 26-FEB-14 | Finding: | 520. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 26-FEB-14 | Finding: | 13. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 26-FEB-14 | Finding: | 820. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 26-FEB-14 | Finding: | 8.4 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 26-FEB-14 | Finding: | 160. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 26-FEB-14 | Finding: | 190. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 26-FEB-14 | Finding: | 3.1 |
| Chemical: | CARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 26-FEB-14 | Finding: | 8.6e-002 |
| Chemical: | PHOSPHATE, ORTHO | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 26-FEB-14 | Finding: | 230. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |

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| Sample date: | 26-FEB-14 | Finding: | 75. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 26-FEB-14 | Finding: | 11. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 26-FEB-14 | Finding: | 74. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 26-FEB-14 | Finding: | 2.7 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 26-FEB-14 | Finding: | 33. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 26-FEB-14 | Finding: | 200. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 26-FEB-14 | Finding: | 200. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 26-FEB-14 | Finding: | 25. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 26-FEB-14 | Finding: | 51. |
| Chemical: | ZINC | Report units: | UG/L |
| Dlr: | 50. | | |
| Sample date: | 27-AUG-13 | Finding: | 4100. |
| Chemical: | CARBON DIOXIDE | Report units: | UG/L |
| Dlr: | 0. | | |
| Sample date: | 27-AUG-13 | Finding: | 12. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 27-AUG-13 | Finding: | 22. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 27-AUG-13 | Finding: | 200. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 27-AUG-13 | Finding: | 32. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 27-AUG-13 | Finding: | 2.5 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 27-AUG-13 | Finding: | 82. |
| Chemical: | SODIUM | Report units: | MG/L |

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| Dlr: | 0. | | |
| Sample date: | 27-AUG-13 | Finding: | 11. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 27-AUG-13 | Finding: | 71. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 27-AUG-13 | Finding: | 220. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 27-AUG-13 | Finding: | 180. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 27-AUG-13 | Finding: | 140. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 27-AUG-13 | Finding: | 7.8 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 27-AUG-13 | Finding: | 780. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 27-AUG-13 | Finding: | 550. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 22-MAY-13 | Finding: | 12. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 22-MAY-13 | Finding: | 13. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 22-MAY-13 | Finding: | 3800. |
| Chemical: | CARBON DIOXIDE | Report units: | UG/L |
| Dlr: | 0. | | |
| Sample date: | 22-MAY-13 | Finding: | 790. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 22-MAY-13 | Finding: | 3.2 |
| Chemical: | METHYL-TERT-BUTYL-ETHER (MTBE) | Report units: | UG/L |
| Dlr: | 3. | | |
| Sample date: | 22-MAY-13 | Finding: | 0.12 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dlr: | 0.1 | | |
| Sample date: | 22-MAY-13 | Finding: | 360. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |

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| Sample date: | 22-MAY-13 | Finding: | 39. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 22-MAY-13 | Finding: | 3.9 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 22-MAY-13 | Finding: | 180. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 22-MAY-13 | Finding: | 66. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 22-MAY-13 | Finding: | 210. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 22-MAY-13 | Finding: | 210. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 22-MAY-13 | Finding: | 180. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 22-MAY-13 | Finding: | 8. |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 22-MAY-13 | Finding: | 1200. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 12-FEB-13 | Finding: | 300. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-FEB-13 | Finding: | 1000. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-FEB-13 | Finding: | 2.8 |
| Chemical: | CARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-FEB-13 | Finding: | 120. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-FEB-13 | Finding: | 30. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-FEB-13 | Finding: | 10. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-FEB-13 | Finding: | 320. |
| Chemical: | SODIUM | Report units: | MG/L |

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| Dlr: | 0. | | |
| Sample date: | 12-FEB-13 | Finding: | 5.2 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-FEB-13 | Finding: | 7. |
| Chemical: | METHYL-TERT-BUTYL-ETHER (MTBE) | Report units: | UG/L |
| Dlr: | 3. | | |
| Sample date: | 12-FEB-13 | Finding: | 53. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-FEB-13 | Finding: | 480. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 12-FEB-13 | Finding: | 0.18 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dlr: | 0.1 | | |
| Sample date: | 12-FEB-13 | Finding: | 0.93 |
| Chemical: | TRICHLOROETHYLENE | Report units: | UG/L |
| Dlr: | 0.5 | | |
| Sample date: | 12-FEB-13 | Finding: | 1600. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 12-FEB-13 | Finding: | 8.2 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 12-FEB-13 | Finding: | 13. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 12-FEB-13 | Finding: | 0.7 |
| Chemical: | CIS-1,2-DICHLOROETHYLENE | Report units: | UG/L |
| Dlr: | 0.5 | | |
| Sample date: | 12-FEB-13 | Finding: | 3400. |
| Chemical: | CARBON DIOXIDE | Report units: | UG/L |
| Dlr: | 0. | | |
| Sample date: | 12-FEB-13 | Finding: | 240. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-NOV-12 | Finding: | 11. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-NOV-12 | Finding: | 300. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-NOV-12 | Finding: | 5.4 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |

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| Sample date: | 13-NOV-12 | Finding: | 52. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-NOV-12 | Finding: | 470. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 13-NOV-12 | Finding: | 0.15 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dlr: | 0.1 | | |
| Sample date: | 13-NOV-12 | Finding: | 0.99 |
| Chemical: | TRICHLOROETHYLENE | Report units: | UG/L |
| Dlr: | 0.5 | | |
| Sample date: | 13-NOV-12 | Finding: | 4.8 |
| Chemical: | METHYL-TERT-BUTYL-ETHER (MTBE) | Report units: | UG/L |
| Dlr: | 3. | | |
| Sample date: | 13-NOV-12 | Finding: | 1000. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-NOV-12 | Finding: | 3400. |
| Chemical: | CARBON DIOXIDE | Report units: | UG/L |
| Dlr: | 0. | | |
| Sample date: | 13-NOV-12 | Finding: | 0.71 |
| Chemical: | CIS-1,2-DICHLOROETHYLENE | Report units: | UG/L |
| Dlr: | 0.5 | | |
| Sample date: | 13-NOV-12 | Finding: | 13. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 13-NOV-12 | Finding: | 1500. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 13-NOV-12 | Finding: | 8.1 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 13-NOV-12 | Finding: | 230. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-NOV-12 | Finding: | 280. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-NOV-12 | Finding: | 2.5 |
| Chemical: | CARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-NOV-12 | Finding: | 140. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-NOV-12 | Finding: | 40. |
| Chemical: | CALCIUM | Report units: | MG/L |

| | | | |
|---|---|---|---|
| Dlr: | 0. | | |
| Sample date: | 08-AUG-12 | Finding: | 5.4 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 08-AUG-12 | Finding: | 13. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 08-AUG-12 | Finding: | 480. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 08-AUG-12 | Finding: | 0.19 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dlr: | 0.1 | | |
| Sample date: | 08-AUG-12 | Finding: | 1.2 |
| Chemical: | TRICHLOROETHYLENE | Report units: | UG/L |
| Dlr: | 0.5 | | |
| Sample date: | 08-AUG-12 | Finding: | 6.8 |
| Chemical: | METHYL-TERT-BUTYL-ETHER (MTBE) | Report units: | UG/L |
| Dlr: | 3. | | |
| Sample date: | 08-AUG-12 | Finding: | 1000. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 08-AUG-12 | Finding: | 3300. |
| Chemical: | CARBON DIOXIDE | Report units: | UG/L |
| Dlr: | 0. | | |
| Sample date: | 08-AUG-12 | Finding: | 0.68 |
| Chemical: | CIS-1,2-DICHLOROETHYLENE | Report units: | UG/L |
| Dlr: | 0.5 | | |
| Sample date: | 08-AUG-12 | Finding: | 310. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 08-AUG-12 | Finding: | 10. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 08-AUG-12 | Finding: | 34. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 08-AUG-12 | Finding: | 130. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 08-AUG-12 | Finding: | 2.5 |
| Chemical: | CARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 08-AUG-12 | Finding: | 280. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 08-AUG-12 | Finding: | 230. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 08-AUG-12 | Finding: | 8.1 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 08-AUG-12 | Finding: | 1600. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 08-AUG-12 | Finding: | 52. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 10-MAY-12 | Finding: | 11. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 10-MAY-12 | Finding: | 65. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 10-MAY-12 | Finding: | 210. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 10-MAY-12 | Finding: | 2.3 |
| Chemical: | CARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 10-MAY-12 | Finding: | 210. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 10-MAY-12 | Finding: | 180. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 10-MAY-12 | Finding: | 8.2 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 10-MAY-12 | Finding: | 1100. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 10-MAY-12 | Finding: | 2. |
| Chemical: | ODOR THRESHOLD @ 60 C | Report units: | TON |
| Dlr: | 1. | | |
| Sample date: | 10-MAY-12 | Finding: | 160. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 10-MAY-12 | Finding: | 13. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 10-MAY-12 | Finding: | 1.1 |
| Chemical: | TURBIDITY, LABORATORY | Report units: | NTU |

| | | | |
|---|---|---|---|
| Dlr: | 0.1 | | |
| Sample date: | 10-MAY-12 | Finding: | 2100. |
| Chemical: | CARBON DIOXIDE | Report units: | UG/L |
| Dlr: | 0. | | |
| Sample date: | 10-MAY-12 | Finding: | 820. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 10-MAY-12 | Finding: | 76. |
| Chemical: | ALUMINUM | Report units: | UG/L |
| Dlr: | 50. | | |
| Sample date: | 10-MAY-12 | Finding: | 0.15 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dlr: | 0.1 | | |
| Sample date: | 10-MAY-12 | Finding: | 360. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 10-MAY-12 | Finding: | 38. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 10-MAY-12 | Finding: | 3.7 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 15-FEB-12 | Finding: | 0.57 |
| Chemical: | CIS-1,2-DICHLOROETHYLENE | Report units: | UG/L |
| Dlr: | 0.5 | | |
| Sample date: | 15-FEB-12 | Finding: | 12. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 15-FEB-12 | Finding: | 1000. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 15-FEB-12 | Finding: | 7. |
| Chemical: | METHYL-TERT-BUTYL-ETHER (MTBE) | Report units: | UG/L |
| Dlr: | 3. | | |
| Sample date: | 15-FEB-12 | Finding: | 1.1 |
| Chemical: | TRICHLOROETHYLENE | Report units: | UG/L |
| Dlr: | 0.5 | | |
| Sample date: | 15-FEB-12 | Finding: | 0.2 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dlr: | 0.1 | | |
| Sample date: | 15-FEB-12 | Finding: | 480. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 15-FEB-12 | Finding: | 51. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 15-FEB-12 | Finding: | 5.7 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 15-FEB-12 | Finding: | 1600. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 15-FEB-12 | Finding: | 8.1 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 15-FEB-12 | Finding: | 240. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 15-FEB-12 | Finding: | 300. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 15-FEB-12 | Finding: | 2.6 |
| Chemical: | CARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 15-FEB-12 | Finding: | 110. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 15-FEB-12 | Finding: | 27. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 15-FEB-12 | Finding: | 11. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 15-FEB-12 | Finding: | 320. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 15-FEB-12 | Finding: | 3600. |
| Chemical: | CARBON DIOXIDE | Report units: | UG/L |
| Dlr: | 0. | | |

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**A3**
**SW**
**0 - 1/8 Mile**
**Higher**

**CA WELLS 10094**

| | | | |
|---|---|---|---|
| Seq: | 10094 | Prim sta c: | 10S/02W-24M07 M |
| Frds no: | 4410003005 | County: | 44 |
| District: | 05 | User id: | HEN |
| System no: | 4410003 | Water type: | G |
| Source nam: | WELL 05 | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 370240.0 | Longitude: | 1220202.0 |
| Precision: | 2 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |

| | | | |
|---|---|---|---|
| System no: | 4410003 | System nam: | Spring Lakes Mhp |
| Hqname: | Not Reported | Address: | 225 MT HERMAN ROAD |
| City: | SCOTTS VALLEY | State: | CA |
| Zip: | 95066 | Zip ext: | Not Reported |
| Pop serv: | 320 | Connection: | 227 |
| Area serve: | MOBILE HOME PARK | | |

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**4**
**West**
**0 - 1/8 Mile**
**Higher**

**CA WELLS 10086**

| | | | |
|---|---|---|---|
| Seq: | 10086 | Prim sta c: | 10S/02W-24F04 M |
| Frds no: | 4410013014 | County: | 44 |
| District: | 05 | User id: | HEN |
| System no: | 4410013 | Water type: | G |
| Source nam: | WELL 10 | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 370243.5 | Longitude: | 1220205.5 |
| Precision: | 3 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |

| | | | |
|---|---|---|---|
| System no: | 4410013 | System nam: | Scotts Valley Water District |
| Hqname: | Not Reported | Address: | P.O. BOX 660006 |
| City: | SCOTTS VALLEY | State: | CA |
| Zip: | 95066 | Zip ext: | Not Reported |
| Pop serv: | 8688 | Connection: | 2977 |
| Area serve: | SCOTTS VALLEY & VIC | | |

| | | | |
|---|---|---|---|
| Sample date: | 09-AUG-17 | Finding: | 0.67 |
| Chemical: | GROSS ALPHA COUNTING ERROR | Report units: | PCI/L |
| Dlr: | 0. | | |

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|---|---|---|---|
| Sample date: | 09-AUG-17 | Finding: | 2.5 |
| Chemical: | GROSS ALPHA MDA95 | Report units: | PCI/L |
| Dlr: | 0. | | |

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|---|---|---|---|
| Sample date: | 23-JAN-14 | Finding: | 100. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |

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|---|---|---|---|
| Sample date: | 23-JAN-14 | Finding: | 32. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 23-JAN-14 | Finding: | 5.2 |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 23-JAN-14 | Finding: | 34. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |

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|---|---|---|---|
| Sample date: | 23-JAN-14 | Finding: | 1.9 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |

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|---|---|---|---|
| Sample date: | 23-JAN-14 | Finding: | 26. |
| Chemical: | CHLORIDE | Report units: | MG/L |

| | | | |
|---|---|---|---|
| Dlr: | 0. | | |
| Sample date: | 23-JAN-14 | Finding: | 70. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 23-JAN-14 | Finding: | 0.12 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dlr: | 0.1 | | |
| Sample date: | 23-JAN-14 | Finding: | 960. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 23-JAN-14 | Finding: | 78. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 23-JAN-14 | Finding: | 250. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 23-JAN-14 | Finding: | 11. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 23-JAN-14 | Finding: | 7.2 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 23-JAN-14 | Finding: | 370. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 23-JAN-14 | Finding: | 0.98 |
| Chemical: | PHOSPHATE, ORTHO | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 23-JAN-14 | Finding: | 62. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 23-JAN-14 | Finding: | 76. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 07-AUG-13 | Finding: | 11. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 07-AUG-13 | Finding: | 11000. |
| Chemical: | CARBON DIOXIDE | Report units: | UG/L |
| Dlr: | 0. | | |
| Sample date: | 07-AUG-13 | Finding: | 260. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 07-AUG-13 | Finding: | 88. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |

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|---|---|---|---|
| Sample date: | 07-AUG-13 | Finding: | 1000. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 07-AUG-13 | Finding: | 0.13 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dlr: | 0.1 | | |
| Sample date: | 07-AUG-13 | Finding: | 72. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 07-AUG-13 | Finding: | 27. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 07-AUG-13 | Finding: | 34. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 07-AUG-13 | Finding: | 5. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 07-AUG-13 | Finding: | 31. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 07-AUG-13 | Finding: | 98. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 07-AUG-13 | Finding: | 78. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 07-AUG-13 | Finding: | 64. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 07-AUG-13 | Finding: | 7.1 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 07-AUG-13 | Finding: | 380. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 07-AUG-13 | Finding: | 2. |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 08-NOV-12 | Finding: | 5800. |
| Chemical: | CARBON DIOXIDE | Report units: | UG/L |
| Dlr: | 0. | | |
| Sample date: | 08-NOV-12 | Finding: | 11. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 08-NOV-12 | Finding: | 85. |
| Chemical: | MANGANESE | Report units: | UG/L |

| | | | |
|---|---|---|---|
| Dlr: | 20. | | |
| Sample date: | 08-NOV-12 | Finding: | 1100. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 08-NOV-12 | Finding: | 0.12 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dlr: | 0.1 | | |
| Sample date: | 08-NOV-12 | Finding: | 75. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 08-NOV-12 | Finding: | 26. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 08-NOV-12 | Finding: | 2. |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 08-NOV-12 | Finding: | 36. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 08-NOV-12 | Finding: | 5.5 |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 08-NOV-12 | Finding: | 33. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 08-NOV-12 | Finding: | 100. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 08-NOV-12 | Finding: | 74. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 08-NOV-12 | Finding: | 61. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 08-NOV-12 | Finding: | 7.3 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 08-NOV-12 | Finding: | 370. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 08-NOV-12 | Finding: | 210. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-APR-12 | Finding: | 7.3 |
| Chemical: | METHYL ETHYL KETONE | Report units: | UG/L |
| Dlr: | 5. | | |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**B5**
**NE**
**0 - 1/8 Mile**
**Lower**

**CA WELLS** **CADDW0000008718**

| | | | |
|---|---|---|---|
| Well ID: | 4410013-023 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | WELL 10A - RAW | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=4410013-023&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**B6**
**NE**
**0 - 1/8 Mile**
**Lower**

**CA WELLS** **CADDW0000001530**

| | | | |
|---|---|---|---|
| Well ID: | 4410013-014 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | WELL 10 - RAW - INACTIVE | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=4410013-014&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**C7**
**South**
**1/8 - 1/4 Mile**
**Higher**

**CA WELLS** **CADDW0000017950**

| | | | |
|---|---|---|---|
| Well ID: | 4410003-004 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | WELL 04 | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=4410003-004&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**C8**
**South**
**1/8 - 1/4 Mile**
**Higher**

**CA WELLS** **CADDW0000007127**

| | | | |
|---|---|---|---|
| Well ID: | 4410003-003 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | WELL 03 - AGRICULTURAL - ABANDONED | | |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=4410003-003&store_num= | | |
| GeoTracker Data: | Not Reported | | |

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**C9**
**SSW**
**1/8 - 1/4 Mile**
**Higher**

**CA WELLS** **10090**

| | | | |
|---|---|---|---|
| Seq: | 10090 | Prim sta c: | 10S/02W-24M02 M |
| Frds no: | 4410003003 | County: | 44 |
| District: | 05 | User id: | HEN |
| System no: | 4410003 | Water type: | G |
| Source nam: | WELL 03 - AGRICULTURAL - ABANDONED | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 370235.0 | Longitude: | 1220201.0 |
| Precision: | 3 | Status: | AB |
| Comment 1: | RESUBMITTED WELL DATA FROM DIST 05 8/4/89. | | |
| Comment 2: | Not Reported | Comment 3: | Not Reported |
| Comment 4: | Not Reported | Comment 5: | Not Reported |
| Comment 6: | Not Reported | Comment 7: | Not Reported |
| System no: | 4410003 | System nam: | Spring Lakes Mhp |
| Hqname: | Not Reported | Address: | 225 MT HERMAN ROAD |
| City: | SCOTTS VALLEY | State: | CA |
| Zip: | 95066 | Zip ext: | Not Reported |
| Pop serv: | 320 | Connection: | 227 |
| Area serve: | MOBILE HOME PARK | | |

---

**C10**
**SSW**
**1/8 - 1/4 Mile**
**Higher**

**CA WELLS** **10091**

| | | | |
|---|---|---|---|
| Seq: | 10091 | Prim sta c: | 10S/02W-24M03 M |
| Frds no: | 4410003004 | County: | 44 |
| District: | 05 | User id: | HEN |
| System no: | 4410003 | Water type: | G |
| Source nam: | WELL 04 | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 370235.5 | Longitude: | 1220201.0 |
| Precision: | 3 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |
| System no: | 4410003 | System nam: | Spring Lakes Mhp |
| Hqname: | Not Reported | Address: | 225 MT HERMAN ROAD |
| City: | SCOTTS VALLEY | State: | CA |
| Zip: | 95066 | Zip ext: | Not Reported |
| Pop serv: | 320 | Connection: | 227 |
| Area serve: | MOBILE HOME PARK | | |

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**D11**
**NE**
**1/8 - 1/4 Mile**
**Lower**

**CA WELLS** **CAEDF0000110763**

| | | | |
|---|---|---|---|
| Well ID: | SLT3S5621370-MW-13A | Well Type: | MONITORING |
| Source: | EDF | Other Name: | MW-13A |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SLT3S5621370&assigned_name=MW-13A&store_num= | | |

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SLT3S5621370&assigned_name=MW-13A

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**D12**
**NE** **CA WELLS** **CAEDF0000042678**
**1/8 - 1/4 Mile**
**Lower**

| | | | |
|---|---|---|---|
| Well ID: | SLT3S5621370-MW-13B | Well Type: | MONITORING |
| Source: | EDF | Other Name: | MW-13B |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SLT3S5621370&assigned_name=MW-13B&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SLT3S5621370&assigned_name=MW-13B | | |

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**D13**
**NNE** **CA WELLS** **CAEDF0000095375**
**1/8 - 1/4 Mile**
**Lower**

| | | | |
|---|---|---|---|
| Well ID: | SLT3S5621370-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=SLT3S5621370&assigned_name=MW-6&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SLT3S5621370&assigned_name=MW-6 | | |

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**D14**
**NNE** **CA WELLS** **CAEDF0000021881**
**1/8 - 1/4 Mile**
**Lower**

| | | | |
|---|---|---|---|
| Well ID: | SLT3S5621370-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=SLT3S5621370&assigned_name=MW-9&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SLT3S5621370&assigned_name=MW-9 | | |

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**D15**
**NNE** **CA WELLS** **CAEDF0000137886**
**1/8 - 1/4 Mile**
**Lower**

| | | | |
|---|---|---|---|
| Well ID: | SLT3S5621370-MW-17 | Well Type: | MONITORING |
| Source: | EDF | Other Name: | MW-17 |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SLT3S5621370&assigned_name=MW-17&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SLT3S5621370&assigned_name=MW-17 | | |

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**D16**
**NNE**
**1/8 - 1/4 Mile**
**Lower**

**CA WELLS** **CAEDF0000106161**

| | | | |
|---|---|---|---|
| Well ID: | SLT3S5621370-MW-18 | Well Type: | MONITORING |
| Source: | EDF | Other Name: | MW-18 |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SLT3S5621370&assigned_name=MW-18&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SLT3S5621370&assigned_name=MW-18 | | |

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**D17**
**NNE**
**1/8 - 1/4 Mile**
**Lower**

**CA WELLS** **CAEDF0000140652**

| | | | |
|---|---|---|---|
| Well ID: | SLT3S5621370-MW-21 | Well Type: | MONITORING |
| Source: | EDF | Other Name: | MW-21 |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SLT3S5621370&assigned_name=MW-21&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SLT3S5621370&assigned_name=MW-21 | | |

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**D18**
**NNE**
**1/8 - 1/4 Mile**
**Lower**

**CA WELLS** **CAEDF0000142083**

| | | | |
|---|---|---|---|
| Well ID: | SLT3S5621370-MW-7 | Well Type: | MONITORING |
| Source: | EDF | Other Name: | MW-7 |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SLT3S5621370&assigned_name=MW-7&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SLT3S5621370&assigned_name=MW-7 | | |

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**D19**
**NNE**
**1/8 - 1/4 Mile**
**Lower**

**CA WELLS** **CAEDF0000054641**

| | | | |
|---|---|---|---|
| Well ID: | SLT3S5621370-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=SLT3S5621370&assigned_name=MW-1&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SLT3S5621370&assigned_name=MW-1 | | |

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**D20**
**NNE**
**1/8 - 1/4 Mile**
**Lower**

**CA WELLS** **CAEDF0000063878**

| | | | |
|---|---|---|---|
| Well ID: | SLT3S5621370-MW-22A | Well Type: | MONITORING |
| Source: | EDF | Other Name: | MW-22A |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SLT3S5621370&assigned_name=MW-22A&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SLT3S5621370&assigned_name=MW-22A | | |

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**D21**
**NNE**
**1/8 - 1/4 Mile**
**Lower**

**CA WELLS** **CAEDF0000129951**

| | | | |
|---|---|---|---|
| Well ID: | SLT3S5621370-MW-22C | Well Type: | MONITORING |
| Source: | EDF | Other Name: | MW-22C |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SLT3S5621370&assigned_name=MW-22C&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SLT3S5621370&assigned_name=MW-22C | | |

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**D22**
**NNE**
**1/8 - 1/4 Mile**
**Lower**

**CA WELLS** **CAEDF0000011271**

| | | | |
|---|---|---|---|
| Well ID: | SLT3S5621370-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=SLT3S5621370&assigned_name=MW-15&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SLT3S5621370&assigned_name=MW-15 | | |

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**D23**
**NNE**
**1/8 - 1/4 Mile**
**Lower**

**CA WELLS** **CAEDF0000006789**

| | | | |
|---|---|---|---|
| Well ID: | SLT3S5621370-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=SLT3S5621370&assigned_name=MW-2&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SLT3S5621370&assigned_name=MW-2 | | |

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**24**
**East**
**1/8 - 1/4 Mile**
**Lower**

**CA WELLS** **CADPR0000003699**

Well ID: 94274 | Well Type: UNK
Source: Department of Pesticide Regulation
Other Name: 94274 | GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=94274&store_num=
GeoTracker Data: Not Reported

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**D25**
**NNE**
**1/8 - 1/4 Mile**
**Lower**

**CA WELLS** **CAEDF0000050090**

Well ID: SLT3S5621370-MW-20 | Well Type: MONITORING
Source: EDF | Other Name: MW-20
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SLT3S5621370&assigned_name=MW-20&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SLT3S5621370&assigned_name=MW-20

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**E26**
**North**
**1/8 - 1/4 Mile**
**Lower**

**CA WELLS** **CAEDF0000120073**

Well ID: SLT3S5621370-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=SLT3S5621370&assigned_name=MW-8&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SLT3S5621370&assigned_name=MW-8

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**D27**
**NNE**
**1/8 - 1/4 Mile**
**Lower**

**CA WELLS** **CAEDF0000020259**

Well ID: SLT3S5621370-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=SLT3S5621370&assigned_name=MW-3&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SLT3S5621370&assigned_name=MW-3

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**28**
**SE**
**1/8 - 1/4 Mile**
**Lower**

**CA WELLS** **CADPR0000003337**

| | | | |
|---|---|---|---|
| Well ID: | 94277 | Well Type: | UNK |
| Source: | Department of Pesticide Regulation | | |
| Other Name: | 94277 | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=94277&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**E29**
**NNE**
**1/8 - 1/4 Mile**
**Lower**

**CA WELLS** **CAEDF0000133701**

| | | | |
|---|---|---|---|
| Well ID: | SLT3S5621370-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=SLT3S5621370&assigned_name=MW-5&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SLT3S5621370&assigned_name=MW-5 | | |

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**D30**
**NNE**
**1/8 - 1/4 Mile**
**Lower**

**CA WELLS** **CAEDF0000037337**

| | | | |
|---|---|---|---|
| Well ID: | SLT3S5621370-MW-16 | Well Type: | MONITORING |
| Source: | EDF | Other Name: | MW-16 |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SLT3S5621370&assigned_name=MW-16&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SLT3S5621370&assigned_name=MW-16 | | |

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**D31**
**NNE**
**1/8 - 1/4 Mile**
**Lower**

**CA WELLS** **CAEDF0000054564**

| | | | |
|---|---|---|---|
| Well ID: | SLT3S5621370-MW-4 | Well Type: | MONITORING |
| Source: | EDF | Other Name: | MW-4 |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SLT3S5621370&assigned_name=MW-4&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SLT3S5621370&assigned_name=MW-4 | | |

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**D32**
**NNE**
**1/8 - 1/4 Mile**
**Lower**

**CA WELLS** **CAEDF0000055303**

| | | | |
|---|---|---|---|
| Well ID: | SLT3S5621370-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=SLT3S5621370&assigned_name=MW-14&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SLT3S5621370&assigned_name=MW-14 | | |

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**D33**
**NNE**
**1/8 - 1/4 Mile**
**Lower**

**CA WELLS** **CAEDF0000086252**

| | | | |
|---|---|---|---|
| Well ID: | SLT3S5621370-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=SLT3S5621370&assigned_name=MW-12&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SLT3S5621370&assigned_name=MW-12 | | |

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**E34**
**NNE**
**1/8 - 1/4 Mile**
**Lower**

**CA WELLS** **CAEDF0000142042**

| | | | |
|---|---|---|---|
| Well ID: | SLT3S5621370-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=SLT3S5621370&assigned_name=MW-11&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SLT3S5621370&assigned_name=MW-11 | | |

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**F35**
**South**
**1/8 - 1/4 Mile**
**Higher**

**CA WELLS** **10095**

| | | | |
|---|---|---|---|
| Seq: | 10095 | Prim sta c: | 10S/02W-24N01 M |
| Frds no: | 4410014012 | County: | 44 |
| District: | 05 | User id: | HEN |
| System no: | 4410014 | Water type: | G |
| Source nam: | PASATIEMPO WELL 03 (ESTRELLA)-ABANDONED | | |
| Station ty: | WELL/AMBNT/MUN/INTAKE | Latitude: | 370230.0 |
| Longitude: | 1220200.0 | Precision: | 4 |
| Status: | AB | Comment 1: | Not Reported |
| Comment 2: | Not Reported | Comment 3: | Not Reported |
| Comment 4: | Not Reported | Comment 5: | Not Reported |

| | | | |
|---|---|---|---|
| Comment 6: | Not Reported | Comment 7: | Not Reported |
| System no: | 4410014 | System nam: | San Lorenzo Valley Wtr Dist |
| Hqname: | Not Reported | Address: | 13060 HIGHWAY 9 |
| City: | BOULDER CREEK | State: | CA |
| Zip: | 95006 | Zip ext: | Not Reported |
| Pop serv: | 20000 | Connection: | 5444 |
| Area serve: | BOULDER CREEK & VIC | | |

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**F36**
**South**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CADDW0000014443**

| | | | |
|---|---|---|---|
| Well ID: | 4410014-012 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | PASATIEMPO WELL 03 (ESTRELLA)-ABANDONED | | |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=4410014-012&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**F37**
**SSW**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **10096**

| | | | |
|---|---|---|---|
| Seq: | 10096 | Prim sta c: | 10S/02W-24P01 M |
| Frds no: | 4410004001 | County: | 44 |
| District: | 05 | User id: | HEN |
| System no: | 4410004 | Water type: | G |
| Source nam: | WELL 01 | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 370230.0 | Longitude: | 1220203.0 |
| Precision: | 3 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |
| System no: | 4410004 | System nam: | Vista Del Lago Mhp |
| Hqname: | Not Reported | Address: | 444 WHISPERING PINES DR |
| City: | SCOTTS VALLEY | State: | CA |
| Zip: | 95066 | Zip ext: | Not Reported |
| Pop serv: | 305 | Connection: | 202 |
| Area serve: | VISTA DEL LAGO MHP SCOTTS VAL. | | |

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**F38**
**SSW**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **10097**

| | | | |
|---|---|---|---|
| Seq: | 10097 | Prim sta c: | 10S/02W-24P02 M |
| Frds no: | 4410004002 | County: | 44 |
| District: | 05 | User id: | HEN |
| System no: | 4410004 | Water type: | G |
| Source nam: | WELL 02 | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 370230.0 | Longitude: | 1220203.0 |
| Precision: | 3 | Status: | AR |

| | | | |
|---|---|---|---|
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |
| System no: | 4410004 | System nam: | Vista Del Lago Mhp |
| Hqname: | Not Reported | Address: | 444 WHISPERING PINES DR |
| City: | SCOTTS VALLEY | State: | CA |
| Zip: | 95066 | Zip ext: | Not Reported |
| Pop serv: | 305 | Connection: | 202 |
| Area serve: | VISTA DEL LAGO MHP SCOTTS VAL. | | |

---

**G39**
**ENE**
**1/4 - 1/2 Mile**
**Lower**

**CA WELLS** **CADPR0000000617**

| | | | |
|---|---|---|---|
| Well ID: | 94272 | Well Type: | UNK |
| Source: | Department of Pesticide Regulation | | |
| Other Name: | 94272 | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=94272&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**H40**
**SW**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CADDW0000021625**

| | | | |
|---|---|---|---|
| Well ID: | 4410003-001 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | WELL 01 | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=4410003-001&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**E41**
**North**
**1/4 - 1/2 Mile**
**Lower**

**CA WELLS** **CADWR0000012940**

| | | | |
|---|---|---|---|
| Well ID: | 10S02W24E001M | Well Type: | UNK |
| Source: | Department of Water Resources | | |
| Other Name: | 10S02W24E001M | 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=10S02W24E001M&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**G42**
**ENE**
**1/4 - 1/2 Mile**
**Lower**

**CA WELLS** **10087**

| | | | |
|---|---|---|---|
| Seq: | 10087 | Prim sta c: | 10S/02W-24K03 M |
| Frds no: | 4400539001 | County: | 44 |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|---|---|---|---|
| District: | 74 | User id: | 44C |
| System no: | 4400539 | Water type: | G |
| Source nam: | WELL 01 | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 370248.0 | Longitude: | 1220141.0 |
| Precision: | 3 | Status: | AR |
| Comment 1: | A MUTUAL WATER CO SERVING 106 CONNECTIONS. WELL SITE IS NEAR SCOTTS | | |
| Comment 2: | VALLEY WATER DISTRICT WELL 9. THIS WELL SHOWS SOME CHLOROBENZENE AND | | |
| Comment 3: | TOLUENE. WELLS 3A AND 6 BOTH SHOW SOME PCE AND ARE A MILE OR SO DISTAN | | |
| Comment 4: | THE NEXT CLOSEST WELL IS 10S/02W-24C03 M AT WATKINS JOHNSON. THIS WELL | | |
| Comment 5: | SHOWS NO PCE. | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |

| | | | |
|---|---|---|---|
| System no: | 4400539 | System nam: | Manana Woods Mutual Water Co |
| Hqname: | Not Reported | Address: | Not Reported |
| City: | Not Reported | State: | Not Reported |
| Zip: | Not Reported | Zip ext: | Not Reported |
| Pop serv: | 0 | Connection: | 0 |
| Area serve: | Not Reported | | |

| | | | |
|---|---|---|---|
| Sample date: | 18-MAY-16 | Finding: | 2400. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |

| | | | |
|---|---|---|---|
| Sample date: | 08-OCT-15 | Finding: | 2000. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |

| | | | |
|---|---|---|---|
| Sample date: | 17-SEP-15 | Finding: | 560. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |

| | | | |
|---|---|---|---|
| Sample date: | 14-SEP-15 | Finding: | 2.8 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |

| | | | |
|---|---|---|---|
| Sample date: | 24-AUG-15 | Finding: | 110. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 24-AUG-15 | Finding: | 12. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 24-AUG-15 | Finding: | 0.33 |
| Chemical: | LANGELIER INDEX @ 60 C | Report units: | Not Reported |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 24-AUG-15 | Finding: | 670. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 24-AUG-15 | Finding: | 30. |
| Chemical: | NICKEL | Report units: | UG/L |
| Dlr: | 10. | | |

| | | | |
|---|---|---|---|
| Sample date: | 24-AUG-15 | Finding: | 550. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |

| | | | |
|---|---|---|---|
| Sample date: | 24-AUG-15 | Finding: | 4300. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |

| | | | |
|---|---|---|---|
| Sample date: | 24-AUG-15 | Finding: | 2. |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dlr: | 0.1 | | |
| Sample date: | 24-AUG-15 | Finding: | 250. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 24-AUG-15 | Finding: | 56. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 24-AUG-15 | Finding: | 4. |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 24-AUG-15 | Finding: | 52. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 24-AUG-15 | Finding: | 24. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 24-AUG-15 | Finding: | 370. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 24-AUG-15 | Finding: | 180. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 24-AUG-15 | Finding: | 140. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 24-AUG-15 | Finding: | 7.1 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 24-AUG-15 | Finding: | 920. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 18-AUG-15 | Finding: | 420. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 18-AUG-15 | Finding: | 2100. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 06-AUG-15 | Finding: | 2600. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 06-AUG-15 | Finding: | 33000. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 16-JUL-15 | Finding: | 550. |
| Chemical: | MANGANESE | Report units: | UG/L |

| | | | |
|---|---|---|---|
| Dlr: | 20. | | |
| Sample date: | 25-JUN-15 | Finding: | 6.3 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 25-JUN-15 | Finding: | 58. |
| Chemical: | TURBIDITY, LABORATORY | Report units: | NTU |
| Dlr: | 0.1 | | |
| Sample date: | 18-JUN-15 | Finding: | 6.4 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 18-JUN-15 | Finding: | 31. |
| Chemical: | TURBIDITY, LABORATORY | Report units: | NTU |
| Dlr: | 0.1 | | |
| Sample date: | 18-JUN-15 | Finding: | 660. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 19-MAY-15 | Finding: | 3.1 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 30-APR-15 | Finding: | 240. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 24-MAR-15 | Finding: | 0.14 |
| Chemical: | RADIUM 226 COUNTING ERROR | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 24-MAR-15 | Finding: | 0.24 |
| Chemical: | GROSS ALPHA COUNTING ERROR | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 24-MAR-15 | Finding: | 4.6 |
| Chemical: | GROSS ALPHA | Report units: | PCI/L |
| Dlr: | 3. | | |
| Sample date: | 24-MAR-15 | Finding: | 2400. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 24-MAR-15 | Finding: | 0.84 |
| Chemical: | RADIUM 228 MDA95 | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 24-MAR-15 | Finding: | 0.16 |
| Chemical: | DCPA (TOTAL DI & MONO ACID DEGRADATES) | | |
| Report units: | UG/L | Dlr: | 0. |
| Sample date: | 24-MAR-15 | Finding: | 0.34 |
| Chemical: | RADIUM 226 MDA95 | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 24-MAR-15 | Finding: | 1.4 |
| Chemical: | GROSS ALPHA MDA95 | Report units: | PCI/L |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 19-FEB-15 | Finding: | 16000. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 09-DEC-14 | Finding: | 6.3 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 09-DEC-14 | Finding: | 2. |
| Chemical: | ODOR THRESHOLD @ 60 C | Report units: | TON |
| Dlr: | 1. | | |
| Sample date: | 09-DEC-14 | Finding: | 41. |
| Chemical: | TURBIDITY, LABORATORY | Report units: | NTU |
| Dlr: | 0.1 | | |
| Sample date: | 06-NOV-14 | Finding: | 350. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 06-NOV-14 | Finding: | 4400. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 18-SEP-14 | Finding: | 370. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 26-JUN-14 | Finding: | 320. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 20-FEB-14 | Finding: | 290. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 20-FEB-14 | Finding: | 1500. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 27-JAN-14 | Finding: | 270. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 11-DEC-13 | Finding: | 280. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 20-NOV-13 | Finding: | 280. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 20-NOV-13 | Finding: | 1600. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 24-OCT-13 | Finding: | 310. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 14-AUG-13 | Finding: | 400. |
| Chemical: | MANGANESE | Report units: | UG/L |

| | | | |
|---|---|---|---|
| Dlr: | 20. | | |
| Sample date: | 14-AUG-13 | Finding: | 2600. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 25-JUL-13 | Finding: | 450. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 12-JUN-13 | Finding: | 24. |
| Chemical: | TURBIDITY, LABORATORY | Report units: | NTU |
| Dlr: | 0.1 | | |
| Sample date: | 28-MAY-13 | Finding: | 520. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 28-MAY-13 | Finding: | 3600. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 26-NOV-12 | Finding: | 680. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 26-NOV-12 | Finding: | 6400. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 29-OCT-12 | Finding: | 680. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 27-AUG-12 | Finding: | 0.908 |
| Chemical: | GROSS ALPHA COUNTING ERROR | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 27-AUG-12 | Finding: | 0.955 |
| Chemical: | GROSS BETA COUNTING ERROR | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 23-AUG-12 | Finding: | 690. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 01-AUG-12 | Finding: | 710. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 8.8e-002 |
| Chemical: | LANGELIER INDEX @ 60 C | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 46000. |
| Chemical: | CARBON DIOXIDE | Report units: | UG/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 12. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 01-AUG-12 | Finding: | 20. |
| Chemical: | NICKEL | Report units: | UG/L |
| Dlr: | 10. | | |
| Sample date: | 01-AUG-12 | Finding: | 5.1 |
| Chemical: | LEAD | Report units: | UG/L |
| Dlr: | 5. | | |
| Sample date: | 01-AUG-12 | Finding: | 2000. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 01-AUG-12 | Finding: | 1.3 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dlr: | 0.1 | | |
| Sample date: | 01-AUG-12 | Finding: | 290. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 01-AUG-12 | Finding: | 39. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 3.7 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 52. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 24. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 120. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 390. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 170. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 140. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 6.8 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 930. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 400. |
| Chemical: | MANGANESE | Report units: | UG/L |

| | | | |
|---|---|---|---|
| Dlr: | 20. | | |
| Sample date: | 16-MAY-12 | Finding: | 390. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 16-MAY-12 | Finding: | 1800. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 22-MAR-12 | Finding: | 440. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 09-FEB-12 | Finding: | 390. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 09-FEB-12 | Finding: | 13000. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |

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**I43**
**SSE** **CA WELLS** **CADDW0000008610**
**1/4 - 1/2 Mile**
**Higher**

| | | | |
|---|---|---|---|
| Well ID: | 4410004-002 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | WELL 02 | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=4410004-002&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**I44**
**SSE** **CA WELLS** **CADDW0000015632**
**1/4 - 1/2 Mile**
**Higher**

| | | | |
|---|---|---|---|
| Well ID: | 4410004-001 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | WELL 01 | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=4410004-001&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**G45**
**ENE** **CA WELLS** **CAEDF0000142804**
**1/4 - 1/2 Mile**
**Higher**

| | | | |
|---|---|---|---|
| Well ID: | T0608700282-CEMW-23D | Well Type: | MONITORING |
| Source: | EDF | Other Name: | CEMW-23D |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608700282&assigned_name=CEMW-23D&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700282&assigned_name=CEMW-23D | | |

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**G46**
**ENE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000063857**

| | | | |
|---|---|---|---|
| Well ID: | T0608700282-CEMW-23A | Well Type: | MONITORING |
| Source: | EDF | Other Name: | CEMW-23A |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608700282&assigned_name=CEMW-23A&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700282&assigned_name=CEMW-23A | | |

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**G47**
**ENE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000117489**

| | | | |
|---|---|---|---|
| Well ID: | T0608700282-CEMW-23C | Well Type: | MONITORING |
| Source: | EDF | Other Name: | CEMW-23C |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608700282&assigned_name=CEMW-23C&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700282&assigned_name=CEMW-23C | | |

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**G48**
**ENE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000043316**

| | | | |
|---|---|---|---|
| Well ID: | T0608700282-CEMW-23B | Well Type: | MONITORING |
| Source: | EDF | Other Name: | CEMW-23B |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608700282&assigned_name=CEMW-23B&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700282&assigned_name=CEMW-23B | | |

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**H49**
**SW**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **10092**

| | | | |
|---|---|---|---|
| Seq: | 10092 | Prim sta c: | 10S/02W-24M05 M |
| Frds no: | 4410003001 | County: | 44 |
| District: | 05 | User id: | HEN |
| System no: | 4410003 | Water type: | G |
| Source nam: | WELL 01 | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 370233.0 | Longitude: | 1220215.0 |
| Precision: | 3 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |

| | | | |
|---|---|---|---|
| Comment 7: | Not Reported | | |
| System no: | 4410003 | System nam: | Spring Lakes Mhp |
| Hqname: | Not Reported | Address: | 225 MT HERMAN ROAD |
| City: | SCOTTS VALLEY | State: | CA |
| Zip: | 95066 | Zip ext: | Not Reported |
| Pop serv: | 320 | Connection: | 227 |
| Area serve: | MOBILE HOME PARK | | |

---

**H50**
**SW**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS 10093**

| | | | |
|---|---|---|---|
| Seq: | 10093 | Prim sta c: | 10S/02W-24M06 M |
| Frds no: | 4410003002 | County: | 44 |
| District: | 05 | User id: | HEN |
| System no: | 4410003 | Water type: | G |
| Source nam: | WELL 02 - ABANDONED | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 370231.5 | Longitude: | 1220213.5 |
| Precision: | 3 | Status: | AB |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |
| System no: | 4410003 | System nam: | Spring Lakes Mhp |
| Hqname: | Not Reported | Address: | 225 MT HERMAN ROAD |
| City: | SCOTTS VALLEY | State: | CA |
| Zip: | 95066 | Zip ext: | Not Reported |
| Pop serv: | 320 | Connection: | 227 |
| Area serve: | MOBILE HOME PARK | | |

---

**J51**
**North**
**1/4 - 1/2 Mile**
**Lower**

**CA WELLS 10089**

| | | | |
|---|---|---|---|
| Seq: | 10089 | Prim sta c: | 10S/02W-24M01 M |
| Frds no: | 4410014013 | County: | 44 |
| District: | 05 | User id: | HEN |
| System no: | 4410014 | Water type: | G |
| Source nam: | PASATIEMPO WELL 04 (CHAMPION)-ABANDONED | | |
| Station ty: | WELL/AMBNT/MUN/INTAKE/SUPPLY | Latitude: | 370300.0 |
| Longitude: | 1220200.0 | Precision: | 8 |
| Status: | AB | Comment 1: | Not Reported |
| Comment 2: | Not Reported | Comment 3: | Not Reported |
| Comment 4: | Not Reported | Comment 5: | Not Reported |
| Comment 6: | Not Reported | Comment 7: | Not Reported |
| System no: | 4410014 | System nam: | San Lorenzo Valley Wtr Dist |
| Hqname: | Not Reported | Address: | 13060 HIGHWAY 9 |
| City: | BOULDER CREEK | State: | CA |
| Zip: | 95006 | Zip ext: | Not Reported |
| Pop serv: | 20000 | Connection: | 5444 |
| Area serve: | BOULDER CREEK & VIC | | |

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**G52**
**ENE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000051335**

| | | | |
|---|---|---|---|
| Well ID: | T0608700282-CEMW-22B | Well Type: | MONITORING |
| Source: | EDF | Other Name: | CEMW-22B |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608700282&assigned_name=CEMW-22B&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700282&assigned_name=CEMW-22B | | |

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**G53**
**ENE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000086383**

| | | | |
|---|---|---|---|
| Well ID: | T0608700282-CEMW-2 | Well Type: | MONITORING |
| Source: | EDF | Other Name: | CEMW-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=T0608700282&assigned_name=CEMW-2&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700282&assigned_name=CEMW-2 | | |

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**G54**
**ENE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000092433**

| | | | |
|---|---|---|---|
| Well ID: | T0608700282-CEMW-22A | Well Type: | MONITORING |
| Source: | EDF | Other Name: | CEMW-22A |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608700282&assigned_name=CEMW-22A&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700282&assigned_name=CEMW-22A | | |

---

**J55**
**North**
**1/4 - 1/2 Mile**
**Lower**

**CA WELLS** **CADDW0000014053**

| | | | |
|---|---|---|---|
| Well ID: | 4410014-013 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | PASATIEMPO WELL 04 (CHAMPION)-ABANDONED | | |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=4410014-013&store_num= | | |
| GeoTracker Data: | Not Reported | | |

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**K56**
**East**
**1/4 - 1/2 Mile**
**Lower**

**CA WELLS** **CAEDF0000069825**

| | | | |
|---|---|---|---|
| Well ID: | T0608700282-CEMW-18C | Well Type: | MONITORING |
| Source: | EDF | Other Name: | CEMW-18C |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608700282&assigned_name=CEMW-18C&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700282&assigned_name=CEMW-18C | | |

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**K57**
**East**
**1/4 - 1/2 Mile**
**Lower**

**CA WELLS** **CAEDF0000142726**

| | | | |
|---|---|---|---|
| Well ID: | T0608700282-CEMW-18A | Well Type: | MONITORING |
| Source: | EDF | Other Name: | CEMW-18A |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608700282&assigned_name=CEMW-18A&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700282&assigned_name=CEMW-18A | | |

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**K58**
**East**
**1/4 - 1/2 Mile**
**Lower**

**CA WELLS** **CAEDF0000127683**

| | | | |
|---|---|---|---|
| Well ID: | T0608700282-CEMW-18B | Well Type: | MONITORING |
| Source: | EDF | Other Name: | CEMW-18B |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608700282&assigned_name=CEMW-18B&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700282&assigned_name=CEMW-18B | | |

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**L59**
**NW**
**1/4 - 1/2 Mile**
**Lower**

**CA WELLS** **CADWR8000032369**

| | | | |
|---|---|---|---|
| State Well #: | Not Reported | Station ID: | 46779 |
| Well Name: | AB303 MW-3A | Well Use: | Observation |
| Well Type: | Part of a nested/multi-completion well | | |
| Well Depth: | 770 | Basin Name: | Santa Margarita |
| Well Completion Rpt #: | 804212 | | |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**L60**
**NW**
**1/4 - 1/2 Mile**
**Lower**

**CA WELLS** **CADWR8000032370**

| | | | |
|---|---|---|---|
| State Well #: | Not Reported | Station ID: | 46780 |
| Well Name: | AB303 MW-3B | Well Use: | Observation |
| Well Type: | Part of a nested/multi-completion well | | |
| Well Depth: | 125 | Basin Name: | Santa Margarita |
| Well Completion Rpt #: | 804212 | | |

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**L61**
**NNW**
**1/4 - 1/2 Mile**
**Lower**

**CA WELLS** **CAUSGSN00006563**

| | | | |
|---|---|---|---|
| Well ID: | USGS-370300122021101 | Well Type: | UNK |
| Source: | United States Geological Survey | | |
| Other Name: | USGS-370300122021101 | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-370300122021101&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**M62**
**ENE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000005189**

| | | | |
|---|---|---|---|
| Well ID: | T0608700282-CEMW-21B | Well Type: | MONITORING |
| Source: | EDF | Other Name: | CEMW-21B |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608700282&assigned_name=CEMW-21B&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700282&assigned_name=CEMW-21B | | |

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**M63**
**ENE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000083844**

| | | | |
|---|---|---|---|
| Well ID: | T0608700282-CEMW-21C | Well Type: | MONITORING |
| Source: | EDF | Other Name: | CEMW-21C |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608700282&assigned_name=CEMW-21C&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700282&assigned_name=CEMW-21C | | |

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**M64**
**ENE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000119925**

| | | | |
|---|---|---|---|
| Well ID: | T0608700282-CEMW-21A | Well Type: | MONITORING |
| Source: | EDF | Other Name: | CEMW-21A |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608700282&assigned_name=CEMW-21A&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700282&assigned_name=CEMW-21A | | |

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**L65**
**NNW**
**1/4 - 1/2 Mile**
**Lower**

**FED USGS** **USGS40000180720**

| | | | |
|---|---|---|---|
| Organization ID: | USGS-CA | | |
| Organization Name: | USGS California Water Science Center | | |
| Monitor Location: | 010S002W24E002M | Type: | Well |
| Description: | Not Reported | HUC: | 18060001 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Other aquifers | Formation Type: | Not Reported |
| Aquifer Type: | Not Reported | Construction Date: | 19740101 |
| Well Depth: | 200 | Well Depth Units: | ft |
| Well Hole Depth: | Not Reported | Well Hole Depth Units: | Not Reported |

| | | | |
|---|---|---|---|
| Ground water levels,Number of Measurements: | 2 | Level reading date: | 1981-09-17 |
| Feet below surface: | 71.47 | Feet to sea level: | Not Reported |
| Note: | A nearby site that taps the same aquifer was being pumped. | | |

| | | | |
|---|---|---|---|
| Level reading date: | 1981-04-13 | Feet below surface: | 61.65 |
| Feet to sea level: | Not Reported | | |
| Note: | A nearby site that taps the same aquifer was being pumped. | | |

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**L66**
**NNW**
**1/4 - 1/2 Mile**
**Lower**

**FED USGS** **USGS40000180719**

| | | | |
|---|---|---|---|
| Organization ID: | USGS-CA | | |
| Organization Name: | USGS California Water Science Center | | |
| Monitor Location: | 010S002W24E001M | Type: | Well |
| Description: | Not Reported | HUC: | 18060001 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Other aquifers | Formation Type: | Not Reported |
| Aquifer Type: | Not Reported | Construction Date: | 19730727 |
| Well Depth: | 220 | Well Depth Units: | ft |
| Well Hole Depth: | Not Reported | Well Hole Depth Units: | Not Reported |

| | | | |
|---|---|---|---|
| Ground water levels,Number of Measurements: | 9 | Level reading date: | 1979-04-05 |
| Feet below surface: | 69.3 | Feet to sea level: | Not Reported |

| | | | |
|---|---|---|---|
| Note: | Not Reported | | |
| Level reading date: | 1978-10-12 | Feet below surface: | 77.4 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1978-03-23 | Feet below surface: | 56.9 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1977-10-25 | Feet below surface: | 73.3 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1977-03-07 | Feet below surface: | 68 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1976-10-13 | Feet below surface: | 81.6 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1975-10-14 | Feet below surface: | 69.7 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1975-03-10 | Feet below surface: | 65.4 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1974-03-22 | Feet below surface: | 59.3 |
| Feet to sea level: | Not Reported | Note: | Not Reported |

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**K67**
**ENE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000053041**

| | | | |
|---|---|---|---|
| Well ID: | T0608700282-CEMW-19A | Well Type: | MONITORING |
| Source: | EDF | Other Name: | CEMW-19A |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608700282&assigned_name=CEMW-19A&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700282&assigned_name=CEMW-19A | | |

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**K68**
**ENE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000133226**

| | | | |
|---|---|---|---|
| Well ID: | T0608700282-CEMW-19B | Well Type: | MONITORING |
| Source: | EDF | Other Name: | CEMW-19B |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608700282&assigned_name=CEMW-19B&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700282&assigned_name=CEMW-19B | | |

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**K69**
**East**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000018732**

| | | | |
|---|---|---|---|
| Well ID: | T0608700282-CEMW-17A | Well Type: | MONITORING |
| Source: | EDF | Other Name: | CEMW-17A |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608700282&assigned_name=CEMW-17A&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700282&assigned_name=CEMW-17A | | |

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**K70**
**East**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000001204**

| | | | |
|---|---|---|---|
| Well ID: | T0608700282-CEMW-17B | Well Type: | MONITORING |
| Source: | EDF | Other Name: | CEMW-17B |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608700282&assigned_name=CEMW-17B&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700282&assigned_name=CEMW-17B | | |

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**N71**
**ENE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000097296**

| | | | |
|---|---|---|---|
| Well ID: | T0608700282-CEMW-20B | Well Type: | MONITORING |
| Source: | EDF | Other Name: | CEMW-20B |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608700282&assigned_name=CEMW-20B&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700282&assigned_name=CEMW-20B | | |

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**N72**
**ENE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000034195**

| | | | |
|---|---|---|---|
| Well ID: | T0608700282-CEMW-20C | Well Type: | MONITORING |
| Source: | EDF | Other Name: | CEMW-20C |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608700282&assigned_name=CEMW-20C&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700282&assigned_name=CEMW-20C | | |

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**N73**
**ENE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000109180**

| | | | |
|---|---|---|---|
| Well ID: | T0608700282-CEMW-20A | Well Type: | MONITORING |
| Source: | EDF | Other Name: | CEMW-20A |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608700282&assigned_name=CEMW-20A&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700282&assigned_name=CEMW-20A | | |

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**O74**
**NE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CADDW0000009929**

| | | | |
|---|---|---|---|
| Well ID: | 4410013-011 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | WELL 09 - RAW-STANDBY | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=4410013-011&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**O75**
**NE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAUSGSN00010484**

| | | | |
|---|---|---|---|
| Well ID: | USGS-370304122014201 | Well Type: | UNK |
| Source: | United States Geological Survey | | |
| Other Name: | USGS-370304122014201 | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-370304122014201&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**O76**
**NE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAUSGS000002708**

| | | | |
|---|---|---|---|
| Well ID: | MSSC-04 | Well Type: | MUNICIPAL |
| Source: | United States Geological Survey | | |
| Other Name: | MSSC-04 | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGS&samp_date=&global_id=&assigned_name=MSSC-04&store_num= | | |
| GeoTracker Data: | Not Reported | | |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**O77**
**NE**
**1/4 - 1/2 Mile**
**Higher**

**FED USGS** **USGS40000180730**

| | | | |
|---|---|---|---|
| Organization ID: | USGS-CA | | |
| Organization Name: | USGS California Water Science Center | | |
| Monitor Location: | 010S002W24C002M | Type: | Well |
| Description: | Not Reported | HUC: | 18060001 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Other aquifers | Formation Type: | Not Reported |
| Aquifer Type: | Not Reported | Construction Date: | 19800901 |
| Well Depth: | 360 | Well Depth Units: | ft |
| Well Hole Depth: | 415 | Well Hole Depth Units: | ft |

| | | | |
|---|---|---|---|
| Ground water levels,Number of Measurements: | 1 | Level reading date: | 1982-04-14 |
| Feet below surface: | 169.6 | Feet to sea level: | Not Reported |
| Note: | The site had been pumped recently. | | |

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**P78**
**ESE**
**1/4 - 1/2 Mile**
**Lower**

**CA WELLS** **CAEDF0000089153**

| | | | |
|---|---|---|---|
| Well ID: | T0608700049-MW-7 | Well Type: | MONITORING |
| Source: | EDF | Other Name: | MW-7 |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608700049&assigned_name=MW-7&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700049&assigned_name=MW-7 | | |

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**Q79**
**NNE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **10084**

| | | | |
|---|---|---|---|
| Seq: | 10084 | Prim sta c: | 10S/02W-24C03 M |
| Frds no: | 4400806001 | County: | 44 |
| District: | 74 | User id: | 44C |
| System no: | 4400806 | Water type: | G |
| Source nam: | WELL 01 | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 370305.0 | Longitude: | 1220148.0 |
| Precision: | 3 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |

| | | | |
|---|---|---|---|
| System no: | 4400806 | System nam: | Watkins Johnson |
| Hqname: | Not Reported | Address: | Not Reported |
| City: | Not Reported | State: | Not Reported |
| Zip: | Not Reported | Zip ext: | Not Reported |
| Pop serv: | 0 | Connection: | 0 |
| Area serve: | Not Reported | | |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**P80**
**ESE**
**1/4 - 1/2 Mile**
**Lower**

**CA WELLS** **CAEDF0000098951**

| | | | |
|---|---|---|---|
| Well ID: | T0608700049-MW-4 | Well Type: | MONITORING |
| Source: | EDF | Other Name: | MW-4 |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608700049&assigned_name=MW-4&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700049&assigned_name=MW-4 | | |

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**P81**
**ESE**
**1/4 - 1/2 Mile**
**Lower**

**CA WELLS** **CAEDF0000024134**

| | | | |
|---|---|---|---|
| Well ID: | T0608700049-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=T0608700049&assigned_name=MW-10&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700049&assigned_name=MW-10 | | |

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**P82**
**ESE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000015549**

| | | | |
|---|---|---|---|
| Well ID: | T0608700049-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=T0608700049&assigned_name=MW-6&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700049&assigned_name=MW-6 | | |

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**P83**
**ESE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000057716**

| | | | |
|---|---|---|---|
| Well ID: | T0608700049-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=T0608700049&assigned_name=MW-3&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700049&assigned_name=MW-3 | | |

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**P84**
**ESE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000006941**

| | | | |
|---|---|---|---|
| Well ID: | T0608700049-MW-13 | Well Type: | MONITORING |
| Source: | EDF | Other Name: | MW-13 |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608700049&assigned_name=MW-13&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700049&assigned_name=MW-13 | | |

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**P85**
**ESE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000062148**

| | | | |
|---|---|---|---|
| Well ID: | T0608700049-MW-16 | Well Type: | MONITORING |
| Source: | EDF | Other Name: | MW-16 |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0608700049&assigned_name=MW-16&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700049&assigned_name=MW-16 | | |

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**P86**
**ESE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000138804**

| | | | |
|---|---|---|---|
| Well ID: | T0608700049-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=T0608700049&assigned_name=MW-12&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700049&assigned_name=MW-12 | | |

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**P87**
**ESE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000031856**

| | | | |
|---|---|---|---|
| Well ID: | T0608700049-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=T0608700049&assigned_name=MW-1&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700049&assigned_name=MW-1 | | |

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**P88**
**ESE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000129190**

| | | | |
|---|---|---|---|
| Well ID: | T0608700049-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=T0608700049&assigned_name=MW-11&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700049&assigned_name=MW-11 | | |

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**P89**
**ESE**
**1/4 - 1/2 Mile**
**Lower**

**CA WELLS** **CAEDF0000022171**

| | | | |
|---|---|---|---|
| Well ID: | T0608700049-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=T0608700049&assigned_name=MW-9&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700049&assigned_name=MW-9 | | |

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**P90**
**ESE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000072509**

| | | | |
|---|---|---|---|
| Well ID: | T0608700049-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=T0608700049&assigned_name=MW-15&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700049&assigned_name=MW-15 | | |

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**R91**
**East**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **22543**

| | | | |
|---|---|---|---|
| Seq: | 22543 | Prim sta c: | E44/013-HOGACTR |
| Frds no: | 4410013004 | County: | 44 |
| District: | 05 | User id: | HEN |
| System no: | 4410013 | Water type: | G |
| Source nam: | HIDDEN OAKS WELL GAC EFFLUENT | Station ty: | WELL/AMBNT/MUN/INTAKE/TREATED |
| Latitude: | 370243.0 | Longitude: | 1220128.0 |
| Precision: | 3 | Status: | AT |
| Comment 1: | GAC ADDITION: FINAL TREATMENT INCLUDES TWO GRANULAR ACTIVATED CARBON C | | |
| Comment 2: | ONTACTORS, AND AN AERATION TANK WITH CHLORINATOR. GAC INITIAL OPERATI | | |
| Comment 3: | ON: 6/23/89. GAC ADDITION DUE TO HIGH DCA CONTENT. | | |

| | | | |
|---|---|---|---|
| Comment 4: | Not Reported | Comment 5: | Not Reported |
| Comment 6: | Not Reported | Comment 7: | Not Reported |
| System no: | 4410013 | System nam: | Scotts Valley Water District |
| Hqname: | Not Reported | Address: | P.O. BOX 660006 |
| City: | SCOTTS VALLEY | State: | CA |
| Zip: | 95066 | Zip ext: | Not Reported |
| Pop serv: | 8688 | Connection: | 2977 |
| Area serve: | SCOTTS VALLEY & VIC | | |

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**R92**
**East**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **10088**

| | | | |
|---|---|---|---|
| Seq: | 10088 | Prim sta c: | 10S/02W-24K04 M |
| Frds no: | 4410013003 | County: | 44 |
| District: | 05 | User id: | HEN |
| System no: | 4410013 | Water type: | G |
| Source nam: | HIDDEN OAKS WELL - STANDBY | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 370243.0 | Longitude: | 1220128.0 |
| Precision: | 2 | Status: | SR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |
| System no: | 4410013 | System nam: | Scotts Valley Water District |
| Hqname: | Not Reported | Address: | P.O. BOX 660006 |
| City: | SCOTTS VALLEY | State: | CA |
| Zip: | 95066 | Zip ext: | Not Reported |
| Pop serv: | 8688 | Connection: | 2977 |
| Area serve: | SCOTTS VALLEY & VIC | | |

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**P93**
**ESE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000101113**

| | | | |
|---|---|---|---|
| Well ID: | T0608700049-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=T0608700049&assigned_name=MW-5&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700049&assigned_name=MW-5 | | |

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**P94**
**ESE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000140739**

| | | | |
|---|---|---|---|
| Well ID: | T0608700049-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=T0608700049&assigned_name=MW-14&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700049&assigned_name=MW-14 | | |

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**P95**
**ESE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000112412**

| | | | |
|---|---|---|---|
| Well ID: | T0608700049-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=T0608700049&assigned_name=MW-8&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700049&assigned_name=MW-8 | | |

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**P96**
**ESE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CAEDF0000004219**

| | | | |
|---|---|---|---|
| Well ID: | T0608700049-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=T0608700049&assigned_name=MW-2&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0608700049&assigned_name=MW-2 | | |

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**Q97**
**NNE**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CADDW0000012121**

| | | | |
|---|---|---|---|
| Well ID: | 4400774-001 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | WELL #1 | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=4400774-001&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**R98**
**East**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADDW0000015031**

| | | | |
|---|---|---|---|
| Well ID: | 4410013-003 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | HIDDEN OAKS WELL - INACTIVE | | |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=4410013-003&store_num= | | |
| GeoTracker Data: | Not Reported | | |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**99**
**NNE**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CADWR0000030532**

| | | | |
|---|---|---|---|
| Well ID: | 10S02W24C001M | Well Type: | UNK |
| Source: | Department of Water Resources | | |
| Other Name: | 10S02W24C001M | 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=10S02W24C001M&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**100**
**NNW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **10085**

| | | | |
|---|---|---|---|
| Seq: | 10085 | Prim sta c: | 10S/02W-24DS1 M |
| Frds no: | 4400805001 | County: | 44 |
| District: | 74 | User id: | 44C |
| System no: | 4400805 | Water type: | G |
| Source nam: | SPRING 01 | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 370313.0 | Longitude: | 1220210.0 |
| Precision: | 3 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |

| | | | |
|---|---|---|---|
| System no: | 4400805 | System nam: | Darlene'S Valley Lounge - Deac |
| Hqname: | Not Reported | Address: | 1210 MT. HERMON RD. |
| City: | SCOTTS VALLEY | State: | CA |
| Zip: | 95066 | Zip ext: | Not Reported |
| Pop serv: | 75 | Connection: | 1 |
| Area serve: | Not Reported | | |

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**101**
**West**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **19971**

| | | | |
|---|---|---|---|
| Seq: | 19971 | Prim sta c: | 4410014-023 |
| Frds no: | 4410014023 | County: | 44 |
| District: | 05 | User id: | HEN |
| System no: | 4410014 | Water type: | G |
| Source nam: | PASATIEMPO WELL 06 | Station ty: | WELL/AMBNT |
| Latitude: | 370246.0 | Longitude: | 1220239.0 |
| Precision: | 3 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |

| | | | |
|---|---|---|---|
| System no: | 4410014 | System nam: | San Lorenzo Valley Wtr Dist |
| Hqname: | Not Reported | Address: | 13060 HIGHWAY 9 |
| City: | BOULDER CREEK | State: | CA |
| Zip: | 95006 | Zip ext: | Not Reported |

| | | | |
|---|---|---|---|
| Pop serv: | 20000 | Connection: | 5444 |
| Area serve: | BOULDER CREEK & VIC | | |
| Sample date: | 04-AUG-16 | Finding: | 8. |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 03-AUG-16 | Finding: | 730. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 14-JUL-16 | Finding: | 5.8 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 11-MAY-16 | Finding: | 780. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 11-MAY-16 | Finding: | 6.4 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 13-APR-16 | Finding: | 6.8 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 17-FEB-16 | Finding: | 790. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 16-DEC-15 | Finding: | 9.2 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 05-NOV-15 | Finding: | 860. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 14-OCT-15 | Finding: | 9.8 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 17-SEP-15 | Finding: | 9.7 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 10-SEP-15 | Finding: | 9.1 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 20-AUG-15 | Finding: | 9.3 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 06-AUG-15 | Finding: | 700. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 05-AUG-15 | Finding: | 1.5 |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 05-AUG-15 | Finding: | 11. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 05-AUG-15 | Finding: | 140. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 05-AUG-15 | Finding: | 33. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 05-AUG-15 | Finding: | 1100. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 05-AUG-15 | Finding: | 9.7 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 05-AUG-15 | Finding: | 30. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 05-AUG-15 | Finding: | 6.9 |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 05-AUG-15 | Finding: | 1.1 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 05-AUG-15 | Finding: | 17. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 05-AUG-15 | Finding: | 21. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 05-AUG-15 | Finding: | 59. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 05-AUG-15 | Finding: | 61. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 05-AUG-15 | Finding: | 50. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 05-AUG-15 | Finding: | 7.4 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 05-AUG-15 | Finding: | 190. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 15-JUL-15 | Finding: | 8.5 |
| Chemical: | ARSENIC | Report units: | UG/L |

| | | | |
|---|---|---|---|
| Dlr: | 2. | | |
| Sample date: | 14-MAY-15 | Finding: | 680. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 13-MAY-15 | Finding: | 8. |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 29-APR-15 | Finding: | 9.9 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 15-APR-15 | Finding: | 9.4 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 11-MAR-15 | Finding: | 4.5 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 12-FEB-15 | Finding: | 680. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 11-FEB-15 | Finding: | 4.7 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 14-JAN-15 | Finding: | 4.8 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 17-DEC-14 | Finding: | 5.9 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 12-NOV-14 | Finding: | 8.7 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 06-NOV-14 | Finding: | 770. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 15-OCT-14 | Finding: | 9.4 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 17-SEP-14 | Finding: | 8.9 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 14-AUG-14 | Finding: | 9.2 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 14-AUG-14 | Finding: | 580. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |

| | | | |
|---|---|---|---|
| Sample date: | 16-JUL-14 | Finding: | 6.8 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 11-JUN-14 | Finding: | 8.5 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 14-MAY-14 | Finding: | 550. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 14-MAY-14 | Finding: | 9.1 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 14-APR-14 | Finding: | 8. |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 05-MAR-14 | Finding: | 8.2 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 27-FEB-14 | Finding: | 500. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 12-FEB-14 | Finding: | 9.4 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 15-JAN-14 | Finding: | 8. |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 11-DEC-13 | Finding: | 7.8 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 06-NOV-13 | Finding: | 8.8 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 06-NOV-13 | Finding: | 520. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 16-OCT-13 | Finding: | 8.9 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 16-SEP-13 | Finding: | 8.8 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 14-AUG-13 | Finding: | 8.1 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 08-AUG-13 | Finding: | 480. |
| Chemical: | IRON | Report units: | UG/L |

| | | | |
|---|---|---|---|
| Dlr: | 100. | | |
| Sample date: | 15-JUL-13 | Finding: | 8.5 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 13-JUN-13 | Finding: | 8.7 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 28-MAY-13 | Finding: | 380. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 15-MAY-13 | Finding: | 8.7 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 15-APR-13 | Finding: | 7.7 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 14-MAR-13 | Finding: | 7.8 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 14-FEB-13 | Finding: | 8.2 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 12-FEB-13 | Finding: | 370. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 16-JAN-13 | Finding: | 8.6 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 13-DEC-12 | Finding: | 7.8 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 26-NOV-12 | Finding: | 450. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 15-NOV-12 | Finding: | 8.2 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 08-NOV-12 | Finding: | 30. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 17-OCT-12 | Finding: | 0.83 |
| Chemical: | RADIUM 228 MDA95 | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 17-OCT-12 | Finding: | 3. |
| Chemical: | GROSS ALPHA MDA95 | Report units: | PCI/L |
| Dlr: | 0. | | |

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|---|---|---|---|
| Sample date: | 17-OCT-12 | Finding: | 2.2 |
| Chemical: | GROSS ALPHA COUNTING ERROR | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 15-OCT-12 | Finding: | 8.5 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 24-SEP-12 | Finding: | 7.7 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 23-AUG-12 | Finding: | 300. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 20-AUG-12 | Finding: | 9.6 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 01-AUG-12 | Finding: | 27. |
| Chemical: | MANGANESE | Report units: | UG/L |
| Dlr: | 20. | | |
| Sample date: | 01-AUG-12 | Finding: | 230. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 01-AUG-12 | Finding: | 8.1 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 01-AUG-12 | Finding: | 29. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 01-AUG-12 | Finding: | 7.8 |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 1.4 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 17. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 1.6 |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 22. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 60. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 63. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |

| | | | |
|---|---|---|---|
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 52. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 7.5 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 200. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 170. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 3500. |
| Chemical: | CARBON DIOXIDE | Report units: | UG/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 11. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 16-JUL-12 | Finding: | 8.4 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 13-JUN-12 | Finding: | 8.3 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 24-MAY-12 | Finding: | 300. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 16-MAY-12 | Finding: | 8.7 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 23-APR-12 | Finding: | 9.7 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 15-MAR-12 | Finding: | 8.8 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 13-FEB-12 | Finding: | 8.2 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 09-FEB-12 | Finding: | 400. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 18-JAN-12 | Finding: | 7.7 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database: **CA WELLS** EDR ID Number: **19972**

**S102**
**WSW**
**1/2 - 1 Mile**
**Higher**

| | | | |
|---|---|---|---|
| Seq: | 19972 | Prim sta c: | 4410014-024 |
| Frds no: | 4410014024 | County: | 44 |
| District: | 05 | User id: | HEN |
| System no: | 4410014 | Water type: | G |
| Source nam: | PASATIEMPO WELL 07 | Station ty: | WELL/AMBNT |
| Latitude: | 370236.0 | Longitude: | 1220239.0 |
| Precision: | 3 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |

| | | | |
|---|---|---|---|
| System no: | 4410014 | System nam: | San Lorenzo Valley Wtr Dist |
| Hqname: | Not Reported | Address: | 13060 HIGHWAY 9 |
| City: | BOULDER CREEK | State: | CA |
| Zip: | 95006 | Zip ext: | Not Reported |
| Pop serv: | 20000 | Connection: | 5444 |
| Area serve: | BOULDER CREEK & VIC | | |

| | | | |
|---|---|---|---|
| Sample date: | 27-SEP-17 | Finding: | 7. |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 27-SEP-17 | Finding: | 1.9 |
| Chemical: | TURBIDITY, LABORATORY | Report units: | NTU |
| Dlr: | 0.1 | | |

| | | | |
|---|---|---|---|
| Sample date: | 17-SEP-15 | Finding: | 2.5 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |

| | | | |
|---|---|---|---|
| Sample date: | 05-AUG-15 | Finding: | 1.2 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 05-AUG-15 | Finding: | 16. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 05-AUG-15 | Finding: | 1.6 |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 05-AUG-15 | Finding: | 12. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 05-AUG-15 | Finding: | 36. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 05-AUG-15 | Finding: | 35. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 05-AUG-15 | Finding: | 29. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 05-AUG-15 | Finding: | 7.3 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 05-AUG-15 | Finding: | 160. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 05-AUG-15 | Finding: | 33. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 05-AUG-15 | Finding: | 0.11 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dlr: | 0.1 | | |
| Sample date: | 05-AUG-15 | Finding: | 120. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 05-AUG-15 | Finding: | 10. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 05-AUG-15 | Finding: | 6.6 |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 16-JUL-14 | Finding: | 2.2 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 17-OCT-12 | Finding: | 2.2 |
| Chemical: | GROSS ALPHA COUNTING ERROR | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 17-OCT-12 | Finding: | 3. |
| Chemical: | GROSS ALPHA MDA95 | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 17-OCT-12 | Finding: | 0.7 |
| Chemical: | RADIUM 228 MDA95 | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 16. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 1.5 |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 11. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 33. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |

| | | | |
|---|---|---|---|
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 32. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 26. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 7.3 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 150. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 6.4 |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 26. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 01-AUG-12 | Finding: | 120. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 2900. |
| Chemical: | CARBON DIOXIDE | Report units: | UG/L |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 10. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 01-AUG-12 | Finding: | 1.3 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |

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**S103**
**WSW** **CA WELLS** **CADDW0000017192**
**1/2 - 1 Mile**
**Higher**

| | | | |
|---|---|---|---|
| Well ID: | 4410014-023 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | PASATIEMPO WELL 06 - INACTIVE - XCLD | | |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=4410014-023&store_num= | | |
| GeoTracker Data: | Not Reported | | |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**S104**
**WSW**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADDW0000020179**

| | | | |
|---|---|---|---|
| Well ID: | 4410014-024 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | PASATIEMPO WELL 07 - RAW | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=4410014-024&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**T105**
**WSW**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADDW0000012766**

| | | | |
|---|---|---|---|
| Well ID: | 4410014-011 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | PASATIEMPO WELL 01 (OLD PROBATION)-ABND | | |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=4410014-011&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**T106**
**West**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADDW0000003833**

| | | | |
|---|---|---|---|
| Well ID: | 4410014-034 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | PASATIEMPO WELL 5A - RAW | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=4410014-034&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**T107**
**WSW**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **10081**

| | | | |
|---|---|---|---|
| Seq: | 10081 | Prim sta c: | 10S/02W-23L02 M |
| Frds no: | 4410014011 | County: | 44 |
| District: | 05 | User id: | HEN |
| System no: | 4410014 | Water type: | G |
| Source nam: | PASATIEMPO WELL 01 (OLD PROBATION)-ABND | | |
| Station ty: | WELL/AMBNT/MUN/INTAKE | Latitude: | 370235.0 |
| Longitude: | 1220248.0 | Precision: | 3 |
| Status: | AB | Comment 1: | Not Reported |
| Comment 2: | Not Reported | Comment 3: | Not Reported |
| Comment 4: | Not Reported | Comment 5: | Not Reported |
| Comment 6: | Not Reported | Comment 7: | Not Reported |

| | | | |
|---|---|---|---|
| System no: | 4410014 | System nam: | San Lorenzo Valley Wtr Dist |
| Hqname: | Not Reported | Address: | 13060 HIGHWAY 9 |
| City: | BOULDER CREEK | State: | CA |
| Zip: | 95006 | Zip ext: | Not Reported |
| Pop serv: | 20000 | Connection: | 5444 |
| Area serve: | BOULDER CREEK & VIC | | |

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**U108**
**NNW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CAEDF0000010063**

| | | | |
|---|---|---|---|
| Well ID: | T10000000184-MW-4 | Well Type: | MONITORING |
| Source: | EDF | Other Name: | MW-4 |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T10000000184&assigned_name=MW-4&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000000184&assigned_name=MW-4 | | |

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**V109**
**West**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADDW0000022520**

| | | | |
|---|---|---|---|
| Well ID: | 4410014-014 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | PASATIEMPO WELL 05 (NEW PROBATION)-INACT | | |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=4410014-014&store_num= | | |
| GeoTracker Data: | Not Reported | | |

---

**U110**
**NNW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CAEDF0000083677**

| | | | |
|---|---|---|---|
| Well ID: | T10000000184-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=T10000000184&assigned_name=MW-3&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000000184&assigned_name=MW-3 | | |

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**U111**
**NNW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CAEDF0000122290**

| | | | |
|---|---|---|---|
| Well ID: | T10000000184-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=T10000000184&assigned_name=MW-2&store_num= | | |

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000000184&assigned_name=MW-2

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**W112**
**East**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADWR8000032347**

| | | | |
|---|---|---|---|
| State Well #: | Not Reported | Station ID: | 46778 |
| Well Name: | AB303 MW-1 | Well Use: | Observation |
| Well Type: | Single Well | Well Depth: | 126 |
| Basin Name: | Santa Margarita | Well Completion Rpt #: | 804211 |

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**U113**
**NNW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CAEDF0000059374**

| | | | |
|---|---|---|---|
| Well ID: | T10000000184-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=T10000000184&assigned_name=MW-1&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000000184&assigned_name=MW-1 | | |

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**V114**
**West**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CAUSGS000002760**

| | | | |
|---|---|---|---|
| Well ID: | HR-SC-18 | Well Type: | MUNICIPAL |
| Source: | United States Geological Survey | | |
| Other Name: | HR-SC-18 | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGS&samp_date=&global_id=&assigned_name=HR-SC-18&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**V115**
**West**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CAUSGSN00005095**

| | | | |
|---|---|---|---|
| Well ID: | USGS-370200122020001 | Well Type: | UNK |
| Source: | United States Geological Survey | | |
| Other Name: | USGS-370200122020001 | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-370200122020001&store_num= | | |
| GeoTracker Data: | Not Reported | | |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**116**
**WSW**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADDW0000009456**

| | | | |
|---|---|---|---|
| Well ID: | 4410008-003 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | WELL MH1 - STANDBY | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=4410008-003&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**U117**
**NNW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CAEDF0000033281**

| | | | |
|---|---|---|---|
| Well ID: | T10000000184-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=T10000000184&assigned_name=MW-5&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000000184&assigned_name=MW-5 | | |

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**V118**
**West**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADDW0000001872**

| | | | |
|---|---|---|---|
| Well ID: | 4410014-041 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | PASATIEMPO WELL #8 | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=4410014-041&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**V119**
**West**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **10080**

| | | | |
|---|---|---|---|
| Seq: | 10080 | Prim sta c: | 10S/02W-23L01 M |
| Frds no: | 4410014014 | County: | 44 |
| District: | 05 | User id: | HEN |
| System no: | 4410014 | Water type: | G |
| Source nam: | PASATIEMPO WELL 05 (NEW PROBATION) | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 370240.0 | Longitude: | 1220255.0 |
| Precision: | 2 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |

| | | | |
|---|---|---|---|
| System no: | 4410014 | System nam: | San Lorenzo Valley Wtr Dist |
| Hqname: | Not Reported | Address: | 13060 HIGHWAY 9 |
| City: | BOULDER CREEK | State: | CA |
| Zip: | 95006 | Zip ext: | Not Reported |
| Pop serv: | 20000 | Connection: | 5444 |
| Area serve: | BOULDER CREEK & VIC | | |

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**120**
**South**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADDW0000007256**

| | | | |
|---|---|---|---|
| Well ID: | 4410016-012 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | XCLD - WELL 08A - ABANDONED | | |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=4410016-012&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**W121**
**East**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **10037**

| | | | |
|---|---|---|---|
| Seq: | 10037 | Prim sta c: | 10S/01W-19C01 M |
| Frds no: | 4410013009 | County: | 44 |
| District: | 05 | User id: | HEN |
| System no: | 4410013 | Water type: | G |
| Source nam: | WELL 06 - ABANDONED | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 370250.0 | Longitude: | 1220100.0 |
| Precision: | 3 | Status: | AB |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |

| | | | |
|---|---|---|---|
| System no: | 4410013 | System nam: | Scotts Valley Water District |
| Hqname: | Not Reported | Address: | P.O. BOX 660006 |
| City: | SCOTTS VALLEY | State: | CA |
| Zip: | 95066 | Zip ext: | Not Reported |
| Pop serv: | 8688 | Connection: | 2977 |
| Area serve: | SCOTTS VALLEY & VIC | | |

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**122**
**West**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADDW0000003686**

| | | | |
|---|---|---|---|
| Well ID: | 4410008-005 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | WELL MH2 - RAW | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=4410008-005&store_num= | | |
| GeoTracker Data: | Not Reported | | |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**123**
**East**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADDW0000006956**

| | | | |
|---|---|---|---|
| Well ID: | 4410013-009 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | WELL 06 - ABANDONED | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=4410013-009&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**124**
**ENE**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CAEDF0000117431**

| | | | |
|---|---|---|---|
| Well ID: | SL0608746316-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=SL0608746316&assigned_name=MW-2&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL0608746316&assigned_name=MW-2 | | |

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**X125**
**West**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **19962**

| | | | |
|---|---|---|---|
| Seq: | 19962 | Prim sta c: | 4410008-005 |
| Frds no: | 4410008005 | County: | 44 |
| District: | 05 | User id: | HEN |
| System no: | 4410008 | Water type: | G |
| Source nam: | WELL 02 | Station ty: | WELL/AMBNT |
| Latitude: | 370245.0 | Longitude: | 1220303.0 |
| Precision: | 3 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |

| | | | |
|---|---|---|---|
| System no: | 4410008 | System nam: | Mt. Hermon Association, Inc. |
| Hqname: | Not Reported | Address: | PO BOX 413 |
| City: | MOUNT HERMON | State: | CA |
| Zip: | 95041 | Zip ext: | Not Reported |
| Pop serv: | 1200 | Connection: | 462 |
| Area serve: | MOUNT HERMON | | |

| | | | |
|---|---|---|---|
| Sample date: | 14-JUN-17 | Finding: | 1.5 |
| Chemical: | GROSS ALPHA MDA95 | Report units: | PCI/L |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 14-JUN-17 | Finding: | 0.505 |
| Chemical: | RADIUM 228 COUNTING ERROR | Report units: | PCI/L |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 14-JUN-17 | Finding: | 6.9e-002 |
| Chemical: | RADIUM 226 COUNTING ERROR | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 14-JUN-17 | Finding: | 0.894 |
| Chemical: | GROSS ALPHA COUNTING ERROR | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 14-JUN-17 | Finding: | 0.363 |
| Chemical: | RADIUM 226 MDA95 | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 14-JUN-17 | Finding: | 0.383 |
| Chemical: | RADIUM 228 MDA95 | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 13-JAN-16 | Finding: | 56. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-JAN-16 | Finding: | 0.99 |
| Chemical: | TURBIDITY, LABORATORY | Report units: | NTU |
| Dlr: | 0.1 | | |
| Sample date: | 13-JAN-16 | Finding: | 110. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-JAN-16 | Finding: | 11. |
| Chemical: | BARIUM | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 13-JAN-16 | Finding: | 3.5 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 13-JAN-16 | Finding: | 12. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 13-JAN-16 | Finding: | 8.6 |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-JAN-16 | Finding: | 1.1 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-JAN-16 | Finding: | 13. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-JAN-16 | Finding: | 1.9 |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-JAN-16 | Finding: | 15. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-JAN-16 | Finding: | 46. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |

| | | | |
|---|---|---|---|
| Dlr: | 0. | | |
| Sample date: | 13-JAN-16 | Finding: | 68. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-JAN-16 | Finding: | 6.8 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 13-JAN-16 | Finding: | 170. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 13-JAN-16 | Finding: | 150. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 16-JUL-14 | Finding: | 43. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 16-JUL-14 | Finding: | 58. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 16-JUL-14 | Finding: | 15. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 16-JUL-14 | Finding: | 1.5 |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 16-JUL-14 | Finding: | 13. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 16-JUL-14 | Finding: | 1.1 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 16-JUL-14 | Finding: | 8. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 16-JUL-14 | Finding: | 19. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 16-JUL-14 | Finding: | 55. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 16-JUL-14 | Finding: | 6.8 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 16-JUL-14 | Finding: | 170. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 16-JUL-14 | Finding: | 48. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 16-JUL-14 | Finding: | 2.6 |
| Chemical: | TURBIDITY, LABORATORY | Report units: | NTU |
| Dlr: | 0.1 | | |
| Sample date: | 16-JUL-14 | Finding: | 120. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 16-JUL-14 | Finding: | 62. |
| Chemical: | ZINC | Report units: | UG/L |
| Dlr: | 50. | | |
| Sample date: | 15-OCT-13 | Finding: | 8.6e-002 |
| Chemical: | RA-226 OR TOTAL RA BY 903.0 C.E. | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 15-OCT-13 | Finding: | 0.322 |
| Chemical: | RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0 | | |
| Report units: | PCI/L | Dlr: | 0. |
| Sample date: | 21-JAN-13 | Finding: | 150. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 21-JAN-13 | Finding: | 3.4 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 21-JAN-13 | Finding: | 22. |
| Chemical: | BORON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 18-JUL-12 | Finding: | 3.7 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |

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**X126**
**West**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **10082**

| | | | |
|---|---|---|---|
| Seq: | 10082 | Prim sta c: | 10S/02W-23L03 M |
| Frds no: | 4410008003 | County: | 44 |
| District: | 05 | User id: | HEN |
| System no: | 4410008 | Water type: | G |
| Source nam: | PONDEROSA LODGE WELL | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 370245.0 | Longitude: | 1220303.0 |
| Precision: | 3 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |
| System no: | 4410008 | System nam: | Mt. Hermon Association, Inc. |
| Hqname: | Not Reported | Address: | PO BOX 413 |
| City: | MOUNT HERMON | State: | CA |
| Zip: | 95041 | Zip ext: | Not Reported |

| | | | |
|---|---|---|---|
| Pop serv: | 1200 | Connection: | 462 |
| Area serve: | MOUNT HERMON | | |
| Sample date: | 20-JUL-17 | Finding: | 280. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 14-JUN-17 | Finding: | 0.138 |
| Chemical: | RADIUM 226 COUNTING ERROR | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 14-JUN-17 | Finding: | 0.363 |
| Chemical: | RADIUM 226 MDA95 | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 14-JUN-17 | Finding: | 0.384 |
| Chemical: | RADIUM 228 MDA95 | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 14-JUN-17 | Finding: | 1.51 |
| Chemical: | GROSS ALPHA MDA95 | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 14-JUN-17 | Finding: | 0.571 |
| Chemical: | RADIUM 228 COUNTING ERROR | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 14-JUN-17 | Finding: | 1.12 |
| Chemical: | GROSS ALPHA COUNTING ERROR | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 12-AUG-15 | Finding: | 1400. |
| Chemical: | IRON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 12-AUG-15 | Finding: | 150. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-AUG-15 | Finding: | 34. |
| Chemical: | TURBIDITY, LABORATORY | Report units: | NTU |
| Dlr: | 0.1 | | |
| Sample date: | 12-AUG-15 | Finding: | 7.2 |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-AUG-15 | Finding: | 1.2 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-AUG-15 | Finding: | 15. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-AUG-15 | Finding: | 1. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-AUG-15 | Finding: | 21. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 12-AUG-15 | Finding: | 56. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-AUG-15 | Finding: | 65. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-AUG-15 | Finding: | 53. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-AUG-15 | Finding: | 7.4 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 12-AUG-15 | Finding: | 200. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 12-AUG-15 | Finding: | 37. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 15-OCT-13 | Finding: | 0.178 |
| Chemical: | RA-226 OR TOTAL RA BY 903.0 C.E. | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 15-OCT-13 | Finding: | 0.227 |
| Chemical: | RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0 | | |
| Report units: | PCI/L | Dlr: | 0. |
| Sample date: | 15-OCT-13 | Finding: | 0.322 |
| Chemical: | RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0 | | |
| Report units: | PCI/L | Dlr: | 0. |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
# RADON

**AREA RADON INFORMATION**

State Database: CA Radon

Radon Test Results

| Zipcode | Num Tests | > 4 pCi/L |
|---|---|---|
| 95066 | 154 | 20 |

Federal EPA Radon Zone for SANTA CRUZ 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: 95066

Number of sites tested: 1

| Area | Average Activity | % <4 pCi/L | % 4-20 pCi/L | % >20 pCi/L |
|---|---|---|---|---|
| Living Area - 1st Floor | 1.500 pCi/L | 100% | 0% | 0% |
| Living Area - 2nd Floor | 1.900 pCi/L | 100% | 0% | 0% |
| Basement | Not Reported | Not Reported | Not Reported | Not Reported |

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

## HYDROGEOLOGIC INFORMATION

AQUIFLOW$^{R}$ Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

## OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

**STREET AND ADDRESS INFORMATION**

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# APPENDIX C
# HISTORICAL RESEARCH DOCUMENTATION

# APPENDIX C.1
# TOPOGRAPHIC MAPS

Valley Gardens Golf Course
263 Mount Herman Road
Scotts Valley, CA 95066

Inquiry Number: 4764645.4
October 27, 2016

# EDR Historical Topo Map Report

## with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# EDR Historical Topo Map Report

10/27/16

**Site Name:**

Valley Gardens Golf Course
263 Mount Herman Road
Scotts Valley, CA 95066
EDR Inquiry # 4764645.4

**Client Name:**

Ramboll Environ
2200 Powell St Suite 700
Emeryville, CA 94608
Contact: Jason Kane

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Ramboll Environ 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.#** 0321676
**Project:** Valley Gardens Golf Course

***Coordinates:***

| | |
|---|---|
| **Latitude:** | 37.044773 37° 2' 41" North |
| **Longitude:** | -122.03401 -122° 2' 2" West |
| **UTM Zone:** | Zone 10 North |
| **UTM X Meters:** | 585900.70 |
| **UTM Y Meters:** | 4100275.47 |
| **Elevation:** | 524.86' above sea level |

**Maps Provided:**

2012
1998
1995
1980
1968
1955
1902

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## *Topo Sheet Key*

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 2012 Source Sheets



Felton
2012
7.5-minute, 24000

### 1998 Source Sheets



Felton
1998
7.5-minute, 24000
Photo Inspected 1998
Aerial Photo Revised 1991

### 1995 Source Sheets



Felton
1995
7.5-minute, 24000
Aerial Photo Revised 1991
Edited 1995

### 1980 Source Sheets



Felton
1980
7.5-minute, 24000
Photo Revised 1980
Aerial Photo Revised 1978

## *Topo Sheet Key*

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1968 Source Sheets



Felton
1968
7.5-minute, 24000
Photo Revised 1968
Aerial Photo Revised 1968

### 1955 Source Sheets



Felton
1955
7.5-minute, 24000
Aerial Photo Revised 1953

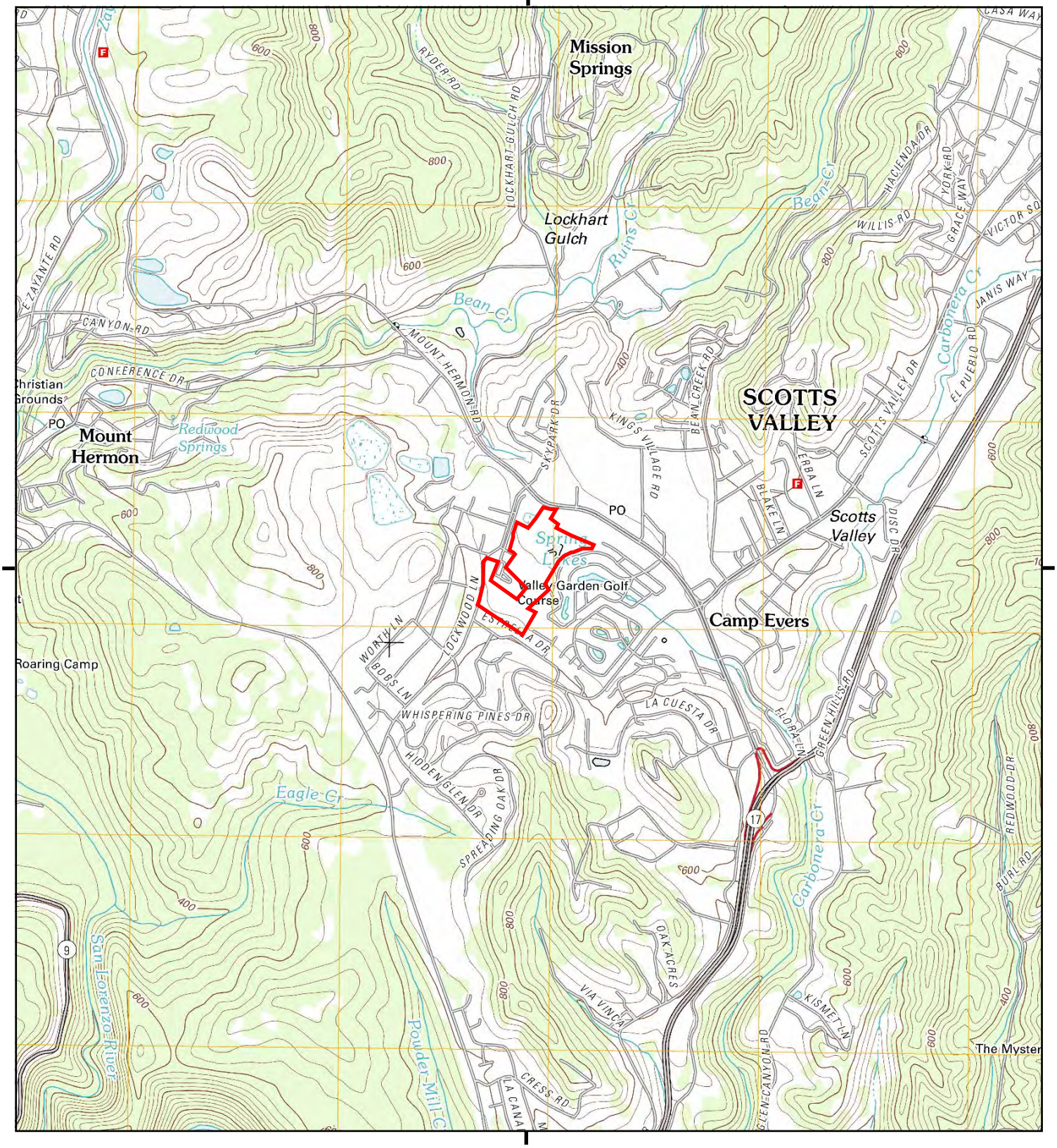
### 1902 Source Sheets



Santa Cruz
1902
30-minute, 125000

# Historical Topo Map

2012




This report includes information from the following map sheet(s).

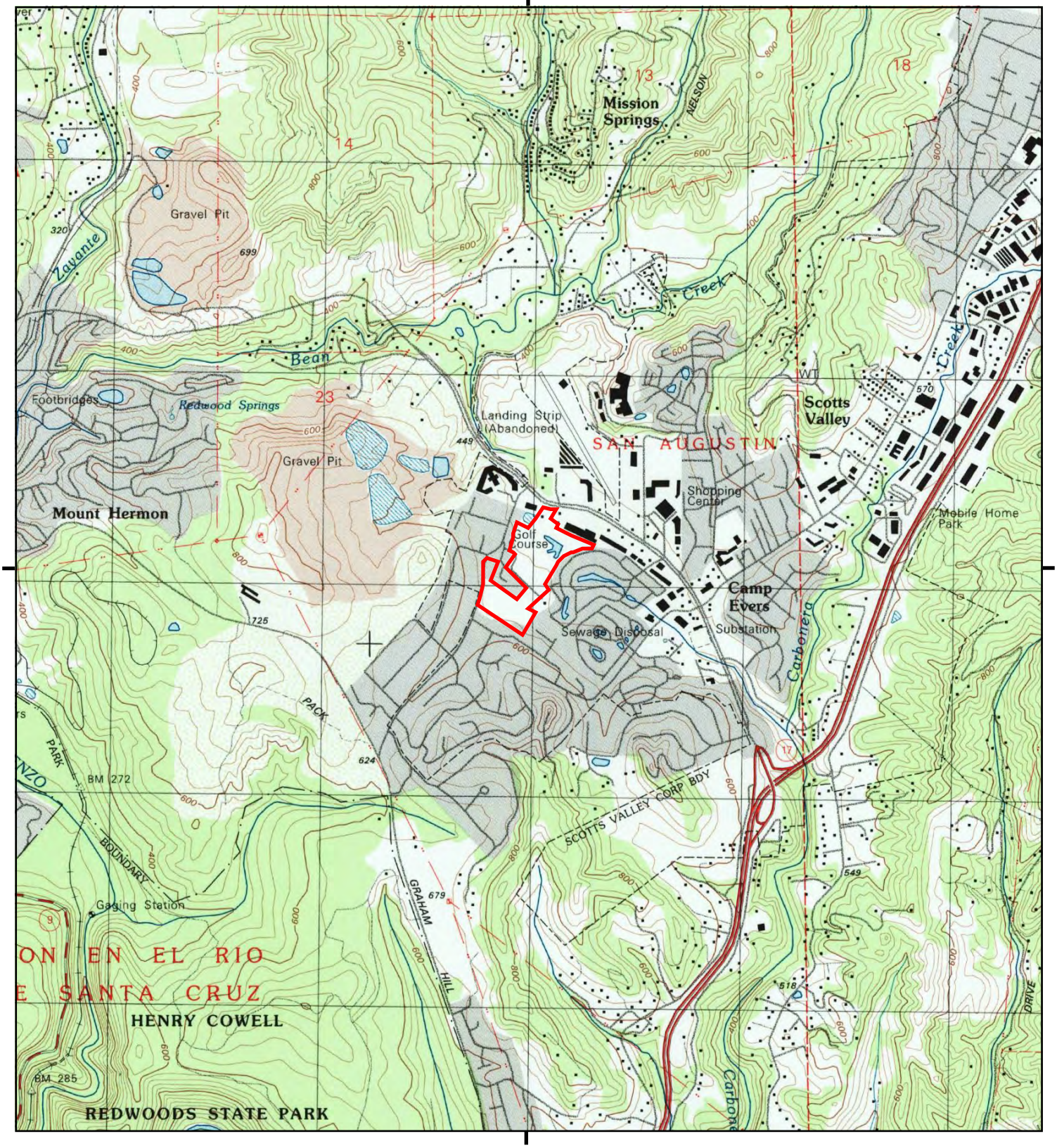
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Felton, 2012, 7.5-minute

SITE NAME: Valley Gardens Golf Course
ADDRESS: 263 Mount Herman Road
Scotts Valley, CA 95066
CLIENT: Ramboll Environ

N




This report includes information from the following map sheet(s).

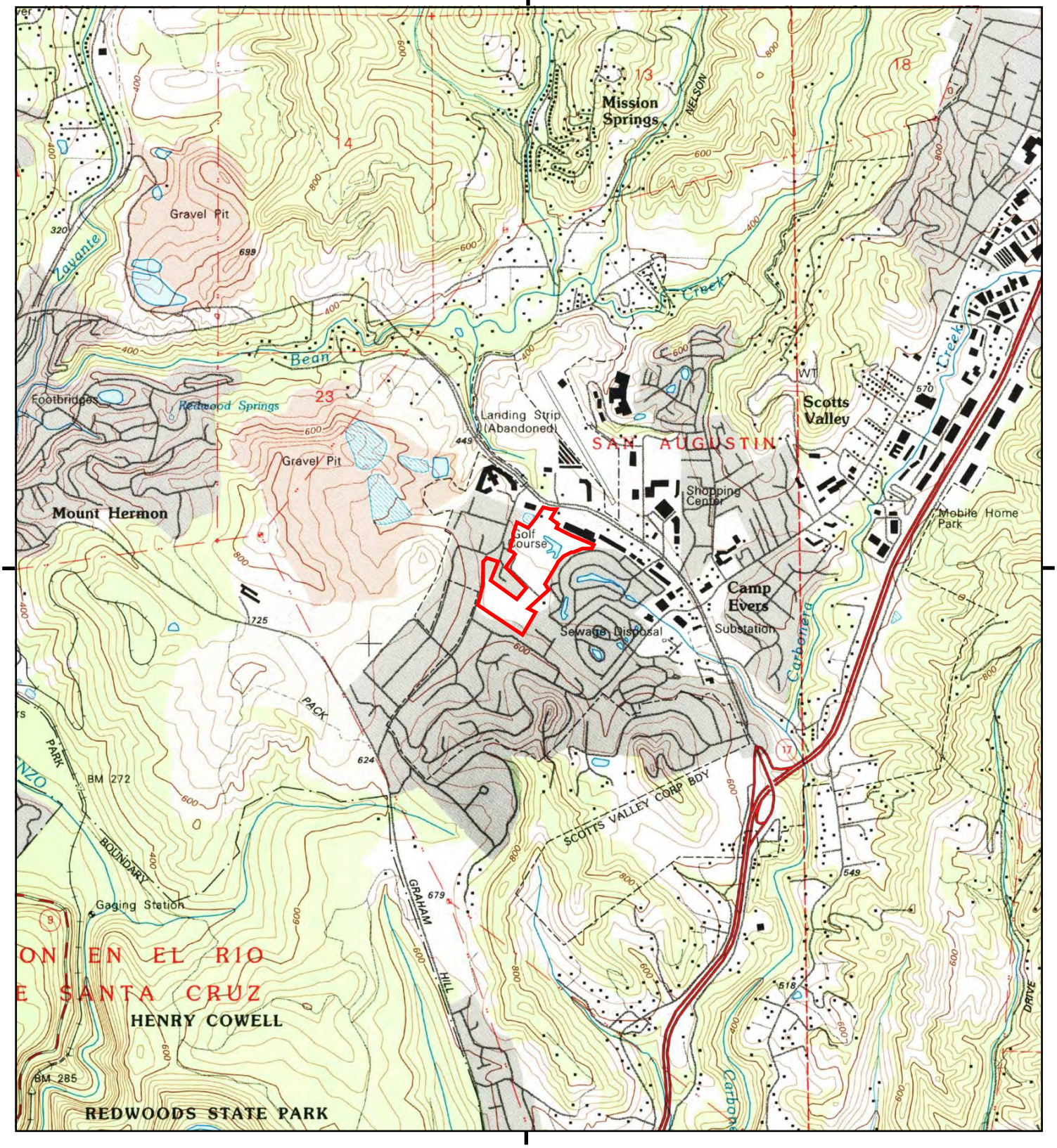
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Felton, 1998, 7.5-minute

SITE NAME: Valley Gardens Golf Course
ADDRESS: 263 Mount Herman Road
Scotts Valley, CA 95066
CLIENT: Ramboll Environ

N




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

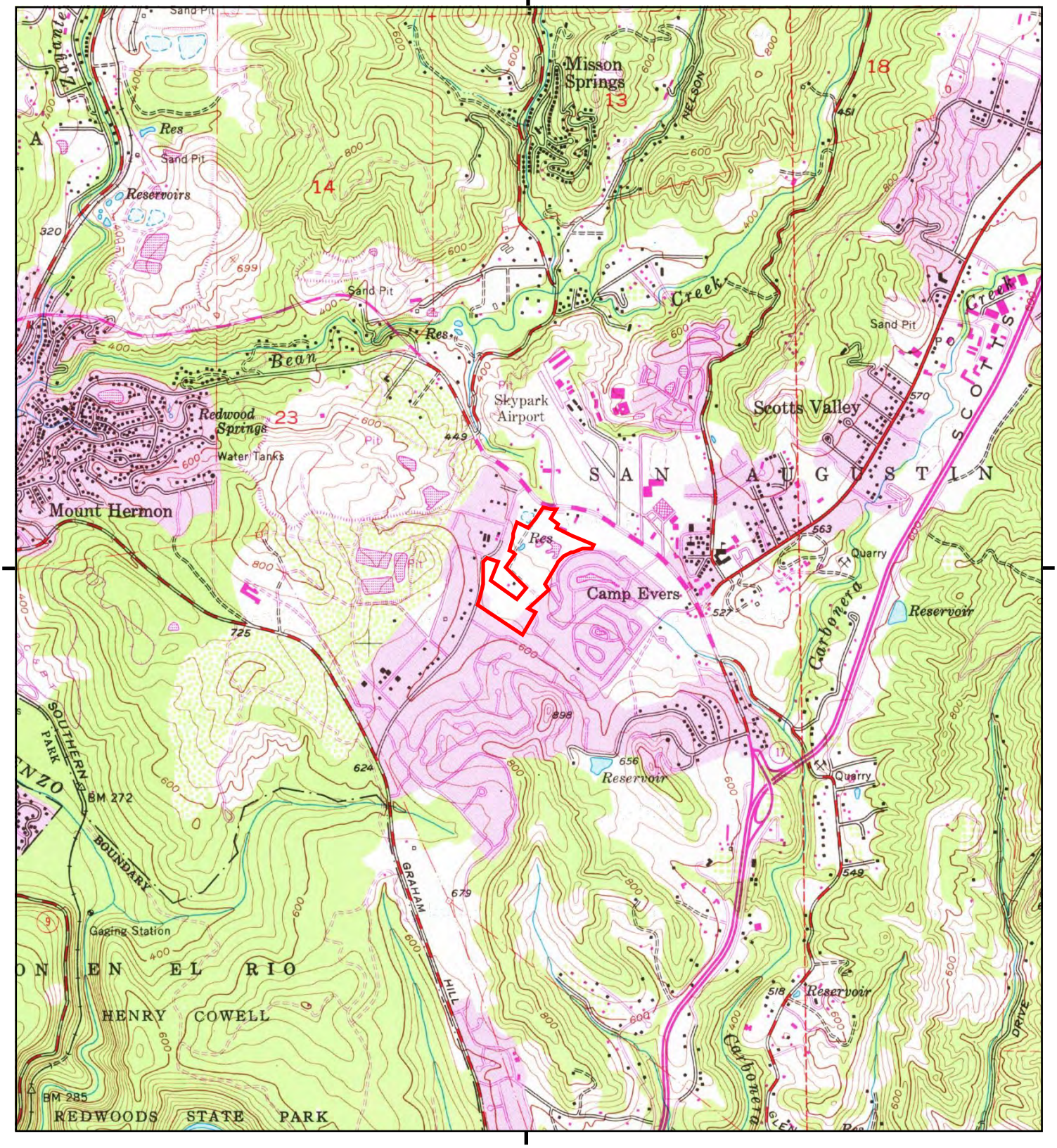
TP, Felton, 1995, 7.5-minute

SITE NAME: Valley Gardens Golf Course
ADDRESS: 263 Mount Herman Road
Scotts Valley, CA 95066
CLIENT: Ramboll Environ

N

# Historical Topo Map

1980




This report includes information from the following map sheet(s).

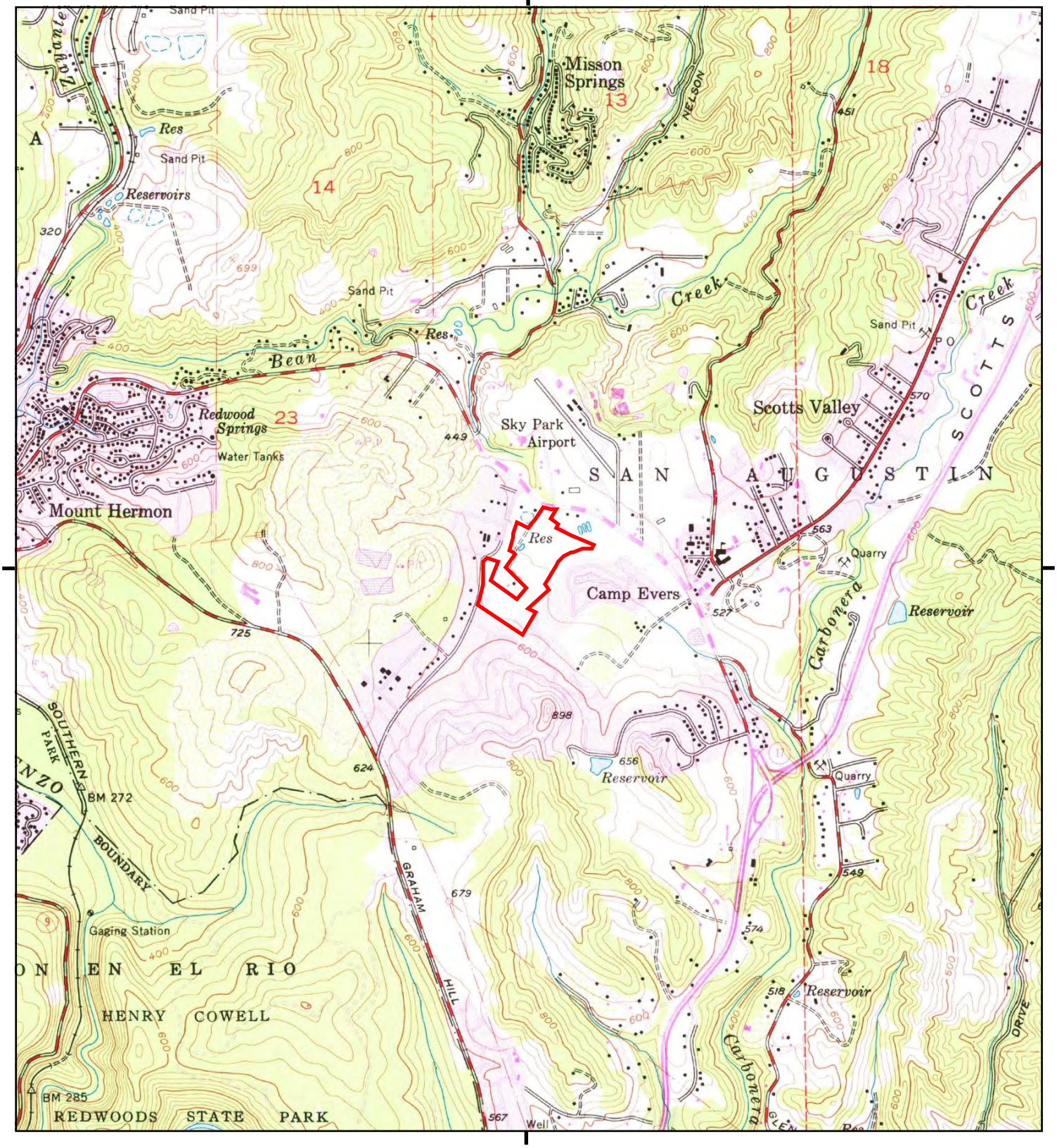
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Felton, 1980, 7.5-minute

SITE NAME: Valley Gardens Golf Course
ADDRESS: 263 Mount Herman Road
Scotts Valley, CA 95066
CLIENT: Ramboll Environ

N




This report includes information from the following map sheet(s).

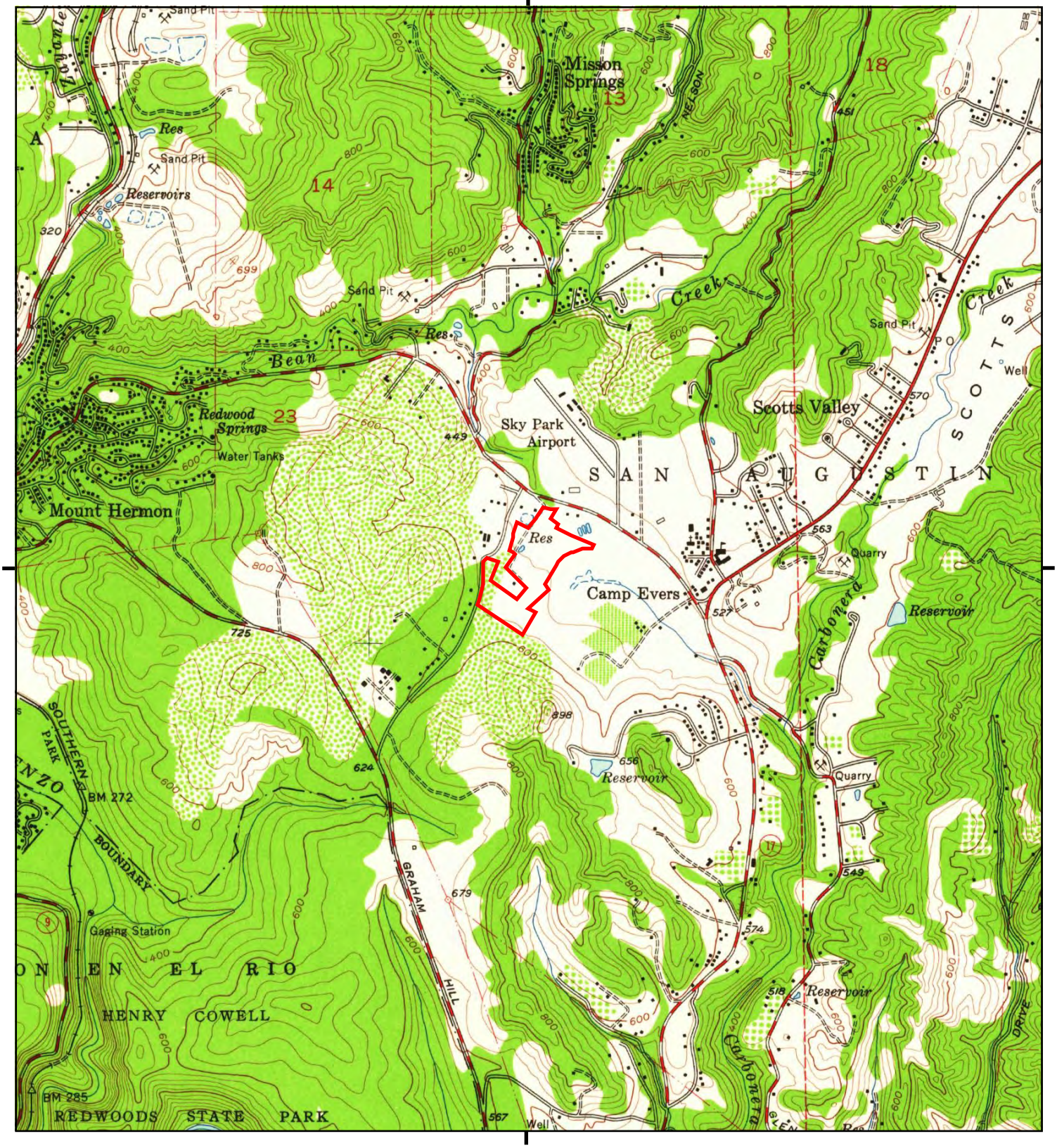
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Felton, 1968, 7.5-minute

SITE NAME: Valley Gardens Golf Course
ADDRESS: 263 Mount Herman Road
Scotts Valley, CA 95066
CLIENT: Ramboll Environ

N




This report includes information from the following map sheet(s).

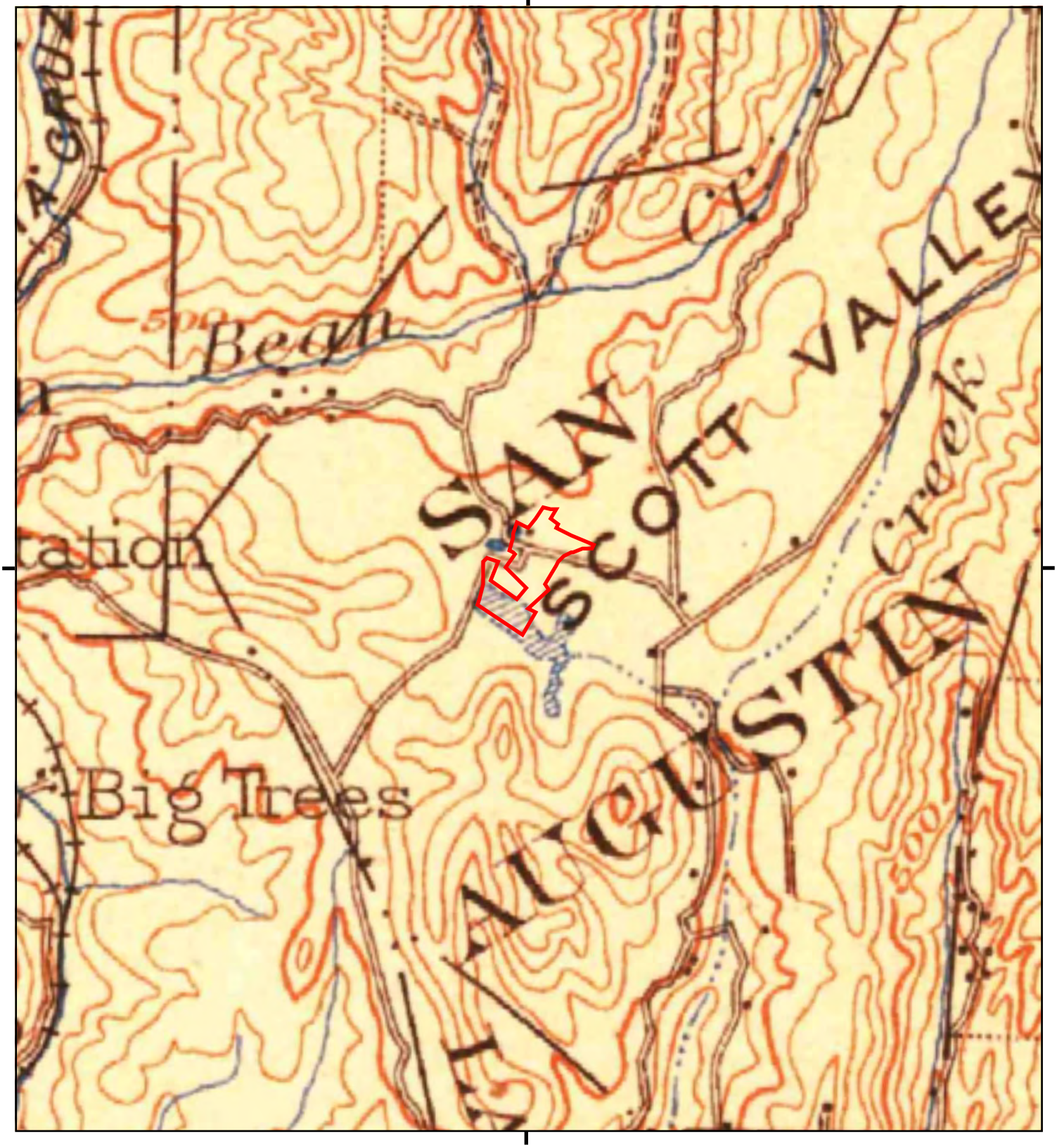
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Felton, 1955, 7.5-minute

SITE NAME: Valley Gardens Golf Course
ADDRESS: 263 Mount Herman Road
Scotts Valley, CA 95066
CLIENT: Ramboll Environ

N




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Santa Cruz, 1902, 30-minute

SITE NAME: Valley Gardens Golf Course
ADDRESS: 263 Mount Herman Road
Scotts Valley, CA 95066
CLIENT: Ramboll Environ

N

# APPENDIX C.2
# AERIAL PHOTOGRAPHS

Valley Gardens Golf Course
263 Mount Herman Road
Scotts Valley, CA 95066

Inquiry Number: 4764645.9
October 27, 2016

# The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# EDR Aerial Photo Decade Package

10/27/16

**Site Name:**

Valley Gardens Golf Course
263 Mount Herman Road
Scotts Valley, CA 95066
EDR Inquiry # 4764645.9

**Client Name:**

Ramboll Environ
2200 Powell St Suite 700
Emeryville, CA 94608
Contact: Jason Kane

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

***Search Results:***

| Year | Scale | Details | Source |
|---|---|---|---|
| 2012 | 1"=500' | Flight Year: 2012 | USDA/NAIP |
| 2010 | 1"=500' | Flight Year: 2010 | USDA/NAIP |
| 2009 | 1"=500' | Flight Year: 2009 | USDA/NAIP |
| 2005 | 1"=500' | Flight Year: 2005 | USDA/NAIP |
| 1991 | 1"=500' | Acquisition Date: October 30, 1991 | USGS/DOQQ |
| 1982 | 1"=500' | Flight Date: August 16, 1982 | USGS |
| 1974 | 1"=500' | Flight Date: July 18, 1974 | USGS |
| 1968 | 1"=500' | Flight Date: June 14, 1968 | USGS |
| 1956 | 1"=500' | Flight Date: June 05, 1956 | USDA |
| 1948 | 1"=500' | Flight Date: May 05, 1948 | USFS |
| 1940 | 1"=500' | Flight Date: June 17, 1940 | FAIR |

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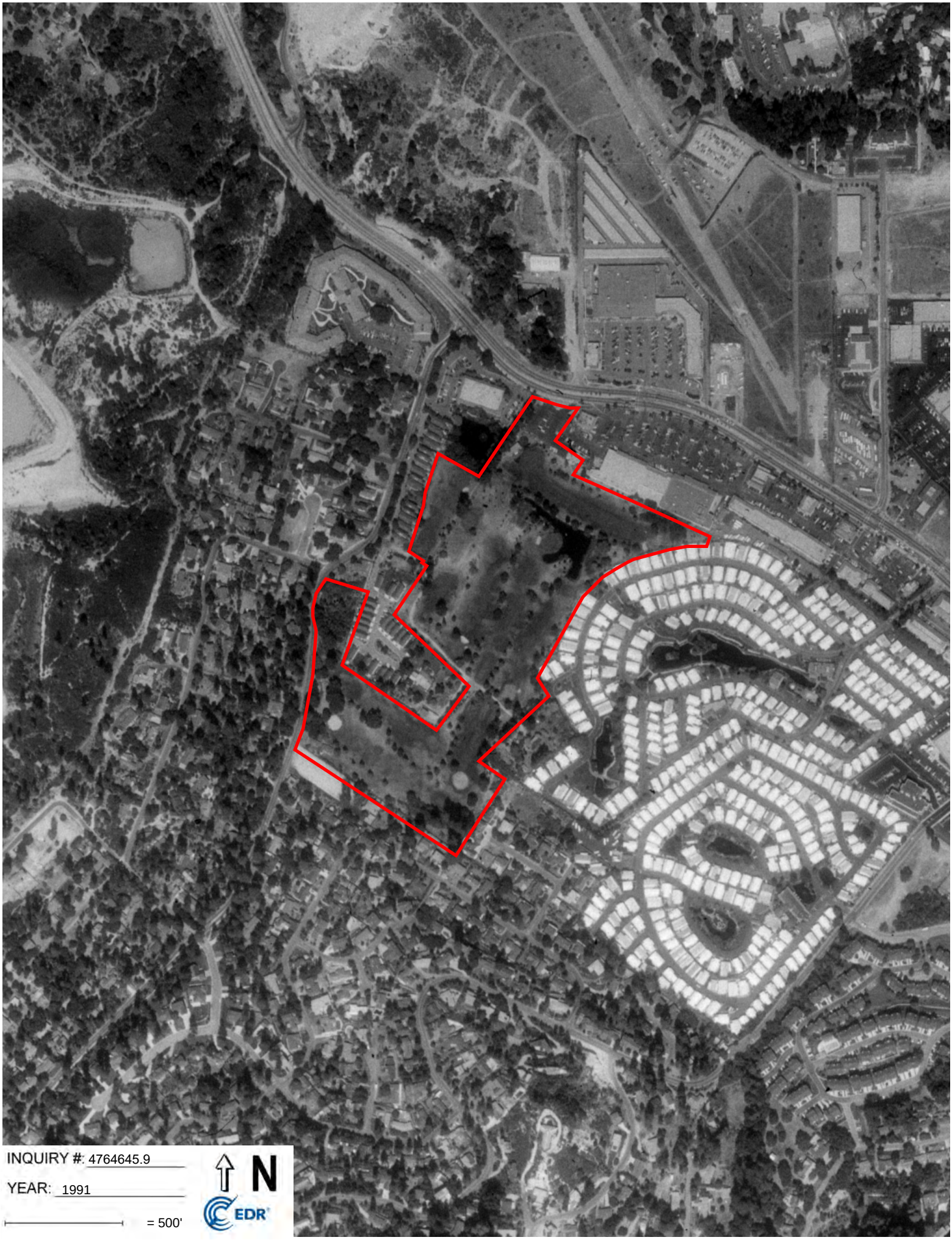
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INQUIRY #: 4764645.9
YEAR: 2012
= 500'
N
EDR


INQUIRY #: 4764645.9
YEAR: 2010
= 500'
N
EDR


INQUIRY #: 4764645.9
YEAR: 2009
= 500'
N
EDR

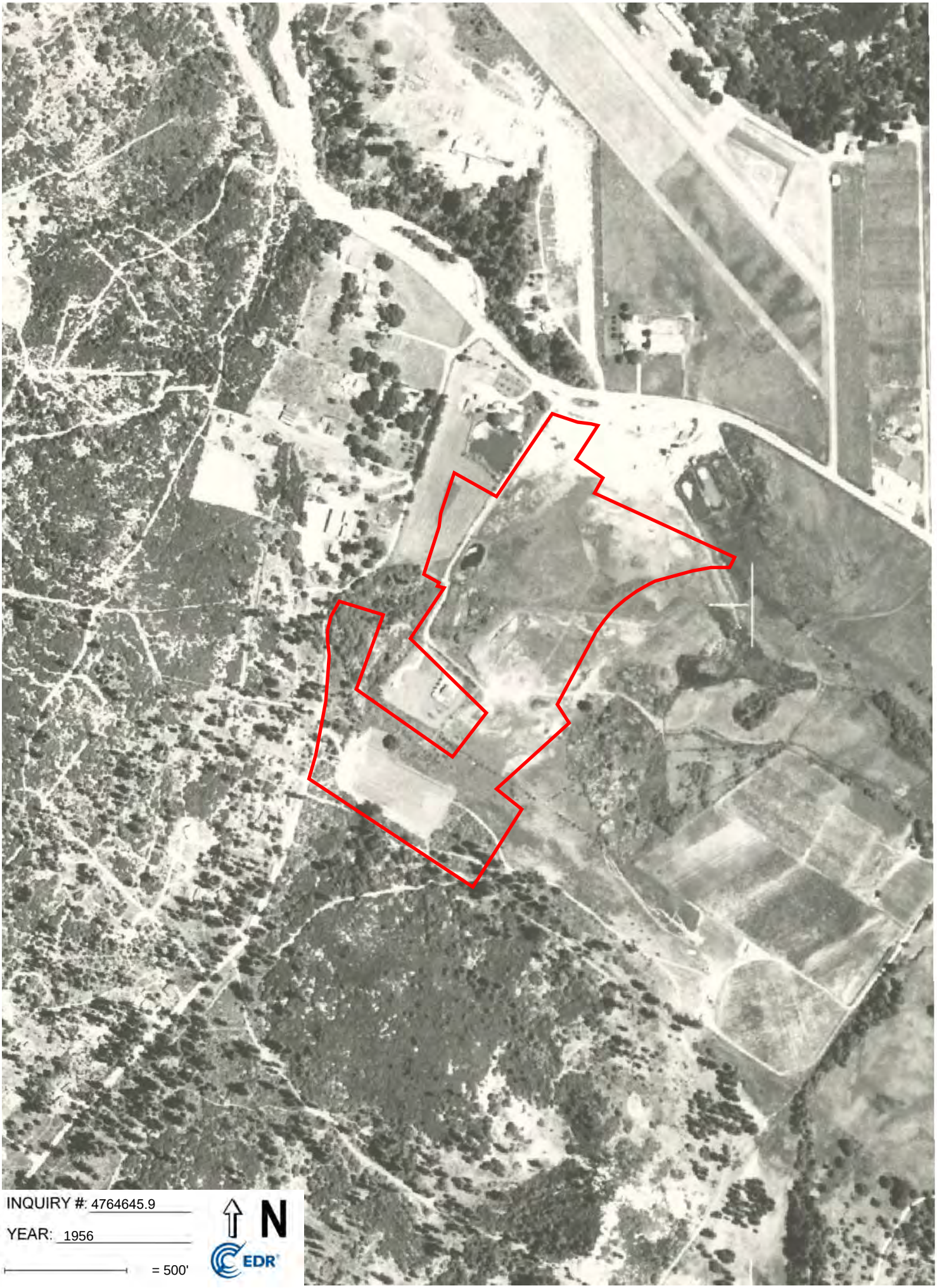

INQUIRY #: 4764645.9
YEAR: 2005
= 500'
N
EDR


INQUIRY #: 4764645.9
YEAR: 1991
= 500'
N
EDR


INQUIRY #: 4764645.9
YEAR: 1982
= 500'
N
EDR


SANTA CRUZ
INQUIRY #: 4764645.9
YEAR: 1974
= 500'
N
EDR


INQUIRY #: 4764645.9
YEAR: 1968
= 500'
N
EDR



INQUIRY #: 4764645.9

YEAR: 1956

= 500'

N

EDR


INQUIRY #: 4764645.9
YEAR: 1948
= 500'
N
EDR


INQUIRY #: 4764645.9
YEAR: 1940
= 500'
N
EDR

# APPENDIX C.3
# ABSTRACT OF CITY DIRECTORIES

**Valley Gardens Golf Course**
263 Mount Herman Road
Scotts Valley, CA 95066

Inquiry Number: 4764645.5
November 22, 2016

# The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

# TABLE OF CONTENTS

## SECTION

**Executive Summary**

**Findings**

**City Directory Images**

***Thank you for your business.***
Please contact EDR at 1-800-352-0050
with any questions or comments.

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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 city directory data at 5 year intervals.

## RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

| *Year* | *Target Street* | *Cross Street* | *Source* |
|---|---|---|---|
| 2013 | ☑ | ☐ | Cole Information Services |
| 2008 | ☑ | ☐ | Cole Information Services |
| 2003 | ☑ | ☐ | Cole Information Services |
| 1999 | ☑ | ☐ | Cole Information Services |
| 1995 | ☑ | ☐ | Cole Information Services |
| 1992 | ☑ | ☐ | Cole Information Services |
| 1985 | ☑ | ☐ | Haines Criss-Cross Directory |
| 1980 | ☑ | ☐ | Haines Criss-Cross Directory |
| 1975 | ☑ | ☐ | Haines Criss-Cross Directory |

## RECORD SOURCES

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# FINDINGS

## TARGET PROPERTY STREET

263 Mount Herman Road
Scotts Valley, CA 95066

| *Year* | *CD Image* | *Source* |
|---|---|---|
| **MOUNT HERMON RD** | | |
| 2013 | pg A2 | Cole Information Services |
| 2008 | pg A8 | Cole Information Services |
| 2003 | pg A14 | Cole Information Services |
| 1999 | pg A20 | Cole Information Services |
| 1995 | pg A26 | Cole Information Services |
| 1992 | pg A32 | Cole Information Services |
| 1985 | pg A35 | Haines Criss-Cross Directory |
| 1985 | pg A36 | Haines Criss-Cross Directory |
| 1980 | pg A37 | Haines Criss-Cross Directory |
| 1975 | pg A38 | Haines Criss-Cross Directory |
| 1975 | pg A39 | Haines Criss-Cross Directory |

# FINDINGS

## CROSS STREETS

No Cross Streets Identified

# City Directory Images

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Cole Information Services |

# MOUNT HERMON RD 2013

| | |
|---|---|
| 225 | ALAN WALKER |
| | ALVIN NANCE |
| | ANGELO ROSSI |
| | ARLENE WALSH |
| | AUDREY VIZZARD |
| | BARBARA DODDS |
| | BARBARA HIGGS |
| | BARBARA SYMONS |
| | BERNICE PREIN |
| | BERNICE SMITH |
| | BONNIE RODGERS |
| | BRANDON MARILYN |
| | C STEINHAUS |
| | CATHY BONNER |
| | CATHY CHIORICH |
| | CHAN MACKENZIE |
| | CHARLES GREER |
| | CHARLIE TERPSTRA |
| | CHRISTINA ZIELINSKI |
| | CLAUDINE BOHLMAN |
| | CLIFTON HODSDON |
| | CONNIE DRYSDALE |
| | CORRINE RILEY |
| | DAVID DESTAILLATS |
| | DAVID FARRELL |
| | DAVID HARRA |
| | DAVID LYNCH |
| | DAVID RASMUSSEN |
| | DINA STOCKER |
| | DONALD NEWFARMER |
| | DONALD YEE |
| | DONNA HILL |
| | DONNA LEWIS |
| | DORLE RUSSELL |
| | DOROTHY SEIB |
| | DOROTHY WASH |
| | EDGAR HILLMAN |
| | EDITH BELL |
| | EDITH HASLAM |
| | EDWARD BREEDEN |
| | EILIF LAND |
| | ELDON HART |
| | ELEANOR FOLKINS |
| | ELEANOR GAMBLE |
| | ELIZABETH ENGLISH |
| | ELWOOD PERKINS |
| | EVELYN LENSON |
| | FRANKEE MANOK |
| | GARY ALLYNE |
| | GARY SELLERS |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Cole Information Services |

## MOUNT HERMON RD 2013 (Cont'd)

225 GENE FLETCHER
GEORGE WALTER
GLORIA MORNARD
GORDON HYDE
GRANT HENINGER
GRANT WINTER
HERBERT LEIPPE
HOWARD CRAMPTON
IRMA LIPPOLD
JACK ALVES
JAMES FULLERTON
JAMES JORRICK
JAMES KENNEDY
JAMES WOOD
JANET YOUNG
JEAN EVERETT
JEAN SLAUGHTER
JERALD REICH
JOAN MOORE
JOAN STANLEY
JOHN BARNES
JOHN DALY
JOHN DAWSON
JOHN DESOBEAU
JOHN DURCAN
JOHN GRAY
JOHN SHEPARD
JUNE NOLAND
KENNETH MORRIS
KENNY PERRY
KENT RICE
KERRY SILVANIA
LAWRENCE SAMPSON
LEE THOMPSON
LILA FINNEY
LILLIAN GORDON
LILLIAN TAFT
LOIS WILLIS
LORETTA NIELSEN
LORRAINE AMOS
LOUIE DOUZEFF
LOUIS FACKLER
LOUIS MONSOUR
LOWELL RAU
MARCIA MAFFIA
MARGARET GILLIS
MARILEE GREGORY
MARILYN MILLER
MARIO ALFARO
MARJORIE HAYDEN

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Cole Information Services |

## MOUNT HERMON RD 2013 (Cont'd)

225 MARTHA DANIELE
MARTIN CARLSON
MARY EXUM
MICHAEL BUELOW
MICHAEL DILLOUGHERY
MIKE TAYLOR
MURIEL RICHARDS
NANCY ALBRIGHT
NORMAN CARLE
PAT GEIGER
PATRICIA CHRISTMANN
PAUL BROWNE
PETE PETERSON
PETER LARUE
PINKY PEDEMONTE
RALPH PIKE
RAYMOND HAIGHT
RAYMOND SPENCE
RICHARD CARTER
RICHARD HANCEY
RICHARD MERRILL
RITA PALO
ROBERT CLARK
ROBERT GLISSMAN
ROBERT HANSON
ROBERT OPPELT
ROBERT PAUL
ROLAND STOLT
RON FRAZIER
RONALD FREDERICKS
RONALD SOUZA
ROSALIE HOWARD
RUE LA
RUSS OVERBY
SANDI CROUSER
SANDRA PAYTON
SARA EGOL
SHIRLEY GRAHAM
SHIRLEY HARDING
SHIRLEY SCHIEFFER
SIBYL MELIN
SPRING LAKES PARK
SYLVIA RHOADES
TERRY KERNS
THELMA DAYTON
TOVE HAUGE
VIRGINIA BACCHI
VIVAN LOGAN
WALTER MALSBARY
WAYNE HICKEY

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Cole Information Services |

## MOUNT HERMON RD 2013 (Cont'd)

| | |
|---|---|
| 225 | WILLIAM MCCABE |
| | WILLIAM NADEAU |
| 226 | CINELUX SCOTTS VALLEY CINEMAS |
| | TONY & ALBAS PIZZA & PASTA |
| 227 | BURGER KING |
| 228 | COMERICA BANK |
| 230 | ACTIVATED COMMUNICATIONS |
| | ASSIST INTERNATIONAL |
| | BEAN CREEK STUDIO SCOTTS VALLEY |
| | BRUNOS BARBEQUE RESTAURANT & CATE |
| | CHOIS TAE KWON DO |
| | ECKANKAR CALIFORNIA SATSANG SOCIETY |
| | INFRASTRUCTURE TECHNOLOGY |
| | INTERWORKING LABS |
| | KINGS VILLAGE SHOPPING CENTER |
| | LINDSAY THOMAS R CPA |
| | MODERN WOODMEN OF AMERICA STEPHEN A |
| | RPI PUBLISHING |
| | SCOTTS VALLEY ARTISANS |
| 231 | SKIPS TIRE & AUTO CENTERS |
| | SKIPS TIRE & AUTO REPAIR |
| | SUBWAY SANDWICHES |
| 232 | AMERIGAS |
| 235 | CALI STYLE |
| | OTORO SUSHI & JAPANESE CUISINE |
| | TIMS EXPRESS |
| 237 | CENTURY 21 |
| | CLASSIC PROPERTY MANAGEMENT |
| | H&R BLOCK |
| 243 | ALLES KATHLEEN A DPM |
| | LITTLE PEOPLE STORE OF SCOTTS VALLEY |
| | TAQUERIA LOS GALLOS NO 2 |
| 245 | A PLUS SERVICES |
| | ART GREEN EARTH CLEANERS |
| | BASKINROBBINS |
| | BELLA NAILS |
| | BRET CORSIGLIA |
| | CUTESY CUPCAKES |
| | DIAMOND WIRELESS |
| | GAMESTOP |
| | GARY ANDRADE |
| | GEORGE PHON |
| | ISABELLA MOTA |
| | KAO SOOK THAI CUISINE |
| | MARK HEATH |
| | MICHAEL RODRIGUES |
| | MR DRAIN PLUMBING OF SCOTTS VALLEY |
| | MR RESCUE PLUMBING & DRAIN CLEANING |
| | OREILLY AUTO PARTS |
| | PAPA MURPHYS TAKE N BAKE PIZZA |

# MOUNT HERMON RD 2013 (Cont'd)

| | |
| --- | --- |
| 245 | RADIOSHACK |
| | ROUND TABLE PIZZA |
| | RUSSELL HUNDEMER |
| | SARAH MCWEENEY |
| | SCOTTS VALLEY CYCLESPORT |
| | SILVAS MOBILE GLASS |
| | TANNERS COVE |
| | THE UPS STORE |
| | TINAS HAIR SALON |
| | WESTSIDE BEAUTY SALON |
| | WILLIAM CLAYTON GREENE JEWELERS |
| 247 | CHASE |
| | CHASE BANK |
| 253 | SAFEWAY |
| | STARBUCKS COFFEE |
| | US BANK |
| 255 | BAY FEDERAL CREDIT UNION |
| | COFFEE CAT |
| | INSIGHT EYECARE CENTER |
| | SCOTTS VALLEY CHILDRENS CENTER |
| 257 | BEAUTY 360 |
| | CVS PHARMACY |
| 259 | MCDONALDS |
| 262 | SHUICHI ITO |
| 263 | VALLEY GARDENS GOLF COURSE |
| 266 | CHUBBYS RESTAURANT |
| | CRUZN CELLULAR |
| | DOLLAR TREE |
| | ELITE MARTIAL ARTS |
| | GIANNOTTI VISION CARE |
| | IMBODEN DAVID R DVM |
| | LEVY CATHY DVM |
| | MT HERMON VETERINARY CLINIC |
| | PAYLESS SHOESOURCE |
| | QUEEN NAILS |
| | SCOTTS VALLEY JEWELERS |
| | SUPERCUTS |
| | TOGOS |
| 269 | ALTERNATIVE HEALTH CONNECTION |
| | CARSEM INC |
| | DIGITAL DELIVERY NETWORKS INC |
| | EXTRAVIEW |
| | IDEVCO INC |
| | MIXED SIGNAL SYSTEMS INC |
| | NADEL PHELAN AGENCY |
| | ORTHORADIO CORP |
| 270 | KMART |
| 272 | ABLE SHOE REPAIR |
| | SCOTTS VALLEY CLEANERS |
| 274 | 7ELEVEN |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Cole Information Services |

## MOUNT HERMON RD 2013 (Cont'd)

| | |
|---|---|
| 276 | STORAGE DEPO THE |
| 1210 | HEAVENLY CAFE |
| 1214 | JOSEPH MANDELLA |
| 1230 | LORIN OLSON |
| 1256 | ROBERT RALSTON |
| 1260 | GEORGE CUMMINS |
| 1264 | WAYNE STRAWN |
| 1266 | OCCUPANT UNKNOWN |
| 1270 | ROBERT NEWMAN |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Cole Information Services |

# MOUNT HERMON RD 2008

| | |
|---|---|
| 225 | A MYREN |
| | AILEEN BAZIUK |
| | ALEXANDER PEDEMONTE |
| | ALVIN NANCE |
| | ANGELO ROSSI |
| | ARLENE CHRISTIE |
| | ARLENE WALSH |
| | AUDREY VIZZARD |
| | BARBARA HIGGS |
| | BARBARA LARRABEE |
| | BARBARA SYMONS |
| | BETTY NADEAU |
| | C HODSDON |
| | C STEINHAUS |
| | CARMEN JORRICK |
| | CAROL DOYLE |
| | CAROL LANCE |
| | CATHERINE LINDBLAD |
| | CHAN MACKENZIE |
| | CHARLES GREER |
| | CHARLIE TERPSTRA |
| | CHARMAINE LEGATE |
| | CINDIE CARLSON |
| | CLARENCE LINSTRUM |
| | DAN HICKS |
| | DAVID FARRELL |
| | DAVID HARRA |
| | DAVID MOODY |
| | DAVID RASMUSSEN |
| | DOLORES FAGAN |
| | DON FINNEY |
| | DONALD EDWARDS |
| | DONALD NEWFARMER |
| | DONALD YEE |
| | DONNA LEWIS |
| | DORLE RUSSELL |
| | DOROTHY ANDERSON |
| | DOROTHY HALE |
| | DOROTHY SEIB |
| | E WOLFF |
| | EARL AMOS |
| | EDD BREEDEN |
| | EDITH HASLAM |
| | EILIF LAND |
| | ELAINE SLIGHTE |
| | ELEANOR FOLKINS |
| | ELEANOR GAMBLE |
| | ELWOOD PERKINS |
| | ERNEST STOWELL |
| | EVELYN LYNCH |

# MOUNT HERMON RD 2008 (Cont'd)

| | |
| --- | --- |
| 225 | F MEIER |
| | FLIJAH SLAUGHTER |
| | FORREST FACKLER |
| | FRANKIE DALZIEL |
| | FRANKLIN WALKER |
| | GARY LUTTRINGER |
| | GARY SELLERS |
| | GEORGE WALTER |
| | GERI PETERSON |
| | GLORIA MORNARD |
| | GORDON HYDE |
| | GRANT HENINGER |
| | HELEN RILEY |
| | HELEN STANYER |
| | HELEN WONG |
| | HERBERT LEIPPE |
| | HOWARD CRAMPTON |
| | I MARY |
| | IRMA LIPPOLD |
| | JACK CHUBB |
| | JAMES BRANDON |
| | JAMES FULLERTON |
| | JANET YOUNG |
| | JEAN EVERETT |
| | JERALD REICH |
| | JOAN DODDS |
| | JOAN STANLEY |
| | JOHN BARNES |
| | JOHN DALY |
| | JOHN DURCAN |
| | JOHN FAIRLEY |
| | JOHN GRAY |
| | JOHN JAMIESON |
| | JOHN MANOK |
| | JOHN MELLON |
| | JOHN SULLIVAN |
| | JOHN WILDER |
| | JOSEPH ZAGAMI |
| | JUDITH NEWTON |
| | JULES ARCHER |
| | JUNE LEGGE |
| | JUNE NOLAND |
| | KEITH MILLER |
| | KENNETH MORRIS |
| | KENNETH WOODBRIDGE |
| | KERRY SILVANIA |
| | LADISLA PINHEIRO |
| | LAWRENCE SAMPSON |
| | LEE GROBE |
| | LEONARD BUELOW |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Cole Information Services |

## MOUNT HERMON RD 2008 (Cont'd)

| | |
|---|---|
| 225 | LEONARD VOGEL |
| | LILLIAN GORDON |
| | LORETTA NIELSEN |
| | LOUIE DOUZEFF |
| | LOUIS MONSOUR |
| | LOUISE HICKEY |
| | MARCIA MAFFIA |
| | MARGARET GILLIS |
| | MARGARET VANBOSKIRK |
| | MARILEE GREGORY |
| | MARIO ALFARO |
| | MARJORIE BILLETER |
| | MARK GIBLIN |
| | MARK TOLAIO |
| | MARTIN CARLSON |
| | MARY ACHTERBERG |
| | MICHAEL DILLOUGHERY |
| | MYRLYN TUENAB |
| | NANCY ALBRIGHT |
| | NANCY ROBILLARD |
| | NEIL DANIELE |
| | NORMA DESTAILLATS |
| | NORMAN CARL |
| | OWEN LYONS |
| | PATRICIA CHRISTMANN |
| | PATRICIA JOURDAN |
| | RALPH PIKE |
| | RAYMOND HAIGHT |
| | RICHARD CARTER |
| | RICHARD MERRILL |
| | RITA PALO |
| | ROBERT HANSON |
| | ROBERT OPPELT |
| | ROLAND STOLT |
| | RON CASHION |
| | RON FRAZIER |
| | RONALD FREDERICKS |
| | ROYCE HUTCHINSON |
| | RUSS OVERBY |
| | RUTH KENNEDY |
| | SARA EGOL |
| | SCOTT BUCK |
| | SHIRLEY SCHIEFFER |
| | SPRING LAKES PARK |
| | SYLVIA ROACH |
| | THELMA DAYTON |
| | TIM SMITH |
| | TOVE HAUGE |
| | TRACY GRANLUND |
| | VIRGIL KANNALL |

# MOUNT HERMON RD 2008 (Cont'd)

| | |
| --- | --- |
| 225 | VIRGINIA BACCHI |
| | VIRGINIA MCCAMMON |
| | WALTER HILL |
| | WALTER MALSBARY |
| | WILLIAM CROUSER |
| | WILLIAM EADIE |
| | WILLIAM LENSON |
| 226 | CIRCULO |
| | CULVER THEATRES INC |
| | DISLOCATED SKATE SHOP |
| | KIDSART SANTA CRUZ INC |
| | SCOTTS VALLEY 6 CINEMAS |
| | TONY & ALBAS PIZZA & PASTA |
| 230 | ACTIVATE COMMUNICATIONS |
| | ATTITUDES |
| | BEAN CREEK STUDIO |
| | DAVIS FAMILY LLC |
| | IN VINO VERITAS |
| | INFRASTRUCTURE TECHNOLOGY SERVICE |
| | KINGS VILLAGE SHOPPING CENTER |
| | MASTERSON JOHN M |
| | OW TERRY REALTY |
| | SCOTTS VALLEY BRANCH LIBRARY |
| | THOMAS R LINDSAY CPA |
| 231 | PERFORMANCE MANAGEMENT INC |
| | SKIPS TIRE & AUTO |
| | SUBWAY |
| 235 | BAY PHOTO INC |
| | CRUZN CELLULAR |
| | NU NUS CLAY PAINT & FIRED |
| | TIMS EXPRESS CHINESE FOOD |
| 237 | CENTURY 21 |
| 243 | KATHLEEN A ALLES DPM |
| | TAQUERIA LOS GALLOS 2 |
| 245 | 5 TALENTS INVESTMENTS |
| | ANNIE LARSON |
| | ART CLEANERS |
| | BASKIN ROBBINS |
| | BILL CHAPMAN AUTOMOTIVE SERVICES |
| | BRET CORSIGLIA |
| | BRUNOS BARBEQUE RESTAURANT |
| | CONNECTION COMMUNICATIONS |
| | CORNER STONE FITNESS INC |
| | CSK AUTO INC |
| | DONALD PFEIFFER |
| | FIDEICOMISO NUMBER 159 BAJA |
| | FLASHPOINT |
| | INSIDE OUT PROPERTY SERVICES |
| | INTERIOR LANDSCAPE ENTERPRISE |
| | JAMES KELLUM |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Cole Information Services |

## MOUNT HERMON RD 2008 (Cont'd)

| | |
|---|---|
| 245 | JESCO INC |
| | KRAGEN AUTO PARTS |
| | LAURIE COLOMBANI |
| | LINDA BLANEY & ASSOCIATES INC |
| | LOEWEN & FRECH INC |
| | MAIL BOXES ETC |
| | MARK HEATH |
| | MERLYN & BARBARA KNOWLES |
| | MICHELE VALDOVINOS |
| | MR D S BARBER SHOP |
| | PACIFIC BIZWORKS |
| | PAPA MURPHYS TAKE N BAKE PIZZA |
| | PURE VALLEY WATER INC |
| | RADIOSHACK CORP |
| | ROUND TABLE PIZZA |
| | RV NAILS |
| | SCOTTS VALLEY CYCLESPORT |
| | SCOTTS VALLEY NUTRITION |
| | SCOTTS VALLEY VACUUM CENTER |
| | SEAN M OBRIEN |
| | STARS |
| | STEED TECHNOLOGY INC |
| | STRATEGIC HEALTHCARE STAFFING |
| | TACK ON |
| | THE UPS STORE |
| | TINAS HAIR SALON |
| | TWJ DESIGNS |
| | VELEZ FRED |
| | VICTORIA MOULTON |
| | WAYNE ROBINSON |
| | WEST BOND INC |
| | WESTSIDE BEAUTY SUPPLY & SALON |
| | WM CLAYTON GREENE JEWELERS |
| 255 | BANKAMERICA NA |
| | CLOTHESTIME STORES INC |
| | COFFEE CAT |
| | ELISABETH STEWART |
| | INSIGHT EYECARE CENTER |
| | SONNLEITNER MICHAEL DR |
| 262 | SHUICHI ITO |
| 266 | ANTHONY GIANNOTTI |
| | CHUBBYS DINER |
| | CRUZ & CRUZ |
| | DR ANTHONY GIANNOTTI |
| | ELITE MARTIAL ARTS ACADEMY |
| | ENTERPRISE RENT A CAR |
| | GIANNOTTI VISION CARE |
| | GOTTSCHALKS INC |
| | PAYLESS SHOESOURCE |
| | QUEEN NAILS |

# MOUNT HERMON RD 2008 (Cont'd)

| | |
| --- | --- |
| 266 | SVJ |
| | THE CLOTHES PIN |
| 269 | CARSEM INC |
| | DIGITAL DELIVERY NETWORKS INC |
| | ESHRA |
| | I D E INC |
| | MIXED SIGNAL SYSTEMS INC |
| | NADEL PHELAN AGENCY |
| | PEAK PAYROLL SERVICES INC |
| | PURE AUDIO PARTNERS |
| | PUREAUDIO LLC |
| | RENT ONE ONLINE |
| | SESAME TECHNOLOGY |
| | SILICON ENGINEERING INC |
| | UNIQUE RETIREMENT SOLUTIONS |
| | WARDEN SCOTT C LAW OFFICE OF |
| | ZAYANTE INC |
| 272 | ABLE SHOE REPAIR |
| | SCOTTS VALLEY CLEANERS |
| 662 | WESCOSA INC |
| 1210 | HEAVENLY CAFE |
| 1214 | JOSEPH MANDELLA |
| 1230 | LORIN OLSON |
| | OLSON ENGINEERING |
| 1256 | OCCUPANT UNKNOWN |
| 1260 | GEORGE CUMMINS |
| 1266 | OCCUPANT UNKNOWN |
| 1270 | NED RICE |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Cole Information Services |

# MOUNT HERMON RD 2003

| | |
|---|---|
| 225 | A MYREN |
| | AILEEN BAZIUK |
| | AILI CARSKADON |
| | ALVIN NANCE |
| | ANGELO PASSARINO |
| | ANGELO ROSSI |
| | ARVID CARLSON |
| | B SYMONS |
| | BEE CHUBB |
| | BERNICE SMITH |
| | BETTY HERRING |
| | BETTY SMITH |
| | BILL GRAHAM |
| | C HODSDON |
| | CARMEN JORRICK |
| | CAROL BAUER |
| | CAROL WILLEY |
| | CAROLYN LANCE |
| | CHAN MACKENZIE |
| | CHARG JEWELRY |
| | CHARLES GREER |
| | CHARLY TERPSTRA |
| | CLARENCE LINSTRUM |
| | DANA MORELLI |
| | DAVID MOODY |
| | DIANA DINELLI |
| | DONALD EDWARDS |
| | DOROTHY ANDERSON |
| | DOROTHY HALE |
| | DOROTHY WASH |
| | DURWARD OVERBY |
| | EARL AMOS |
| | EARL HASSLER |
| | ELAINE SLIGHTE |
| | ELEANOR FOLKINS |
| | ELEANOR PROBERT |
| | ELROY NEWLON |
| | ELSIE HARRA |
| | ELWOOD PERKINS |
| | EUGENE MIRAMON |
| | EUGENIE BAILEY |
| | EVELYN FINCH |
| | EVELYN LYNCH |
| | EVELYN NICHOLS |
| | EVERETT PETERSON |
| | FEDELE CAMPAGNOLO |
| | FORREST FACKLER |
| | FRANKIE DALZIEL |
| | FRED WOLFF |
| | GARY LUTTRINGER |

## MOUNT HERMON RD 2003 (Cont'd)

| | |
| --- | --- |
| 225 | GEORGE WALTER |
| | GLADYS BRYAN |
| | GLORIA FRAZIER |
| | GLORIA MORNARD |
| | GORDAN RASMUS |
| | GORDON HYDE |
| | HAROLD GUNN |
| | HAROLD MCCANN |
| | HAZEL MARKS |
| | HELEN STANYER |
| | HELEN WONG |
| | HOWARD CARDIFF |
| | I MARY |
| | IRENE CARTER |
| | IRMA LIPPOLD |
| | IVA KERNS |
| | JACQUES DANGERS |
| | JANE GIBSON |
| | JEROME SCHIEFFER |
| | JOHANNES ANDRESEN |
| | JOHN DURCAN |
| | JOSEPH OLIVIERI |
| | JOSEPH VIZZARD |
| | JOSEPH ZAGAMI |
| | JULES ARCHER |
| | JUNE NOLAND |
| | KARL KERBER |
| | KEITH MILLER |
| | KENNETH SHORT |
| | L DOUZEFF |
| | LARRY SELMAN |
| | LAURA KELLER |
| | LAWRENCE SAMPSON |
| | LEONARD BUELOW |
| | LEONARD VOGEL |
| | LOUIS MONSOUR |
| | MANTON RILEY |
| | MARGARET GRAY |
| | MARGUERITE TARRICO |
| | MARJORIE BILLETER |
| | MARTHA DANIELE |
| | MARY ACHTERBERG |
| | MARY YOWELL |
| | MAURINE COLOMBO |
| | MYRLYN TIEMAN |
| | NORINE WEDIG |
| | NORMA CORNER |
| | PATRICIA CHRISTMANN |
| | PATRICIA JOURDAN |
| | PAULINE GORDON |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Cole Information Services |

## MOUNT HERMON RD 2003 (Cont'd)

| | |
|---|---|
| 225 | PETER FARRELLY |
| | PRODUCTIVITY CLINIC |
| | RAYMOND HAIGHT |
| | REVA SLAUGHTER |
| | RICHARD HALLAM |
| | ROBERT LINDBLAD |
| | ROBERT OPPELT |
| | ROMAYNE OLSON |
| | RONALD FREDERICKS |
| | ROY NIELSEN |
| | ROYCE HUTCHINSON |
| | RUTH CARL |
| | S SILVANIA |
| | SPRING LAKES PARK |
| | STANLEY LARRABEE |
| | T NEAL |
| | THELMA DAYTON |
| | THOMAS DARNELL |
| | THOMAS RASMUSSEN |
| | THOMAS STENTON |
| | TOM STEINHAUS |
| | TRACY GRANLUND |
| | VELMA FLEURY |
| | VERA LUNT |
| | VERA WILDER |
| | VERNELL HICKS |
| | VIOLETMAE MORELAND |
| | VIRGIL KANNALL |
| | WALLACE JOOST |
| | WALTER MALSBARY |
| | WALTER PETITDIDIER |
| | WILLIAM CAIOCCA |
| | WILLIAM CARMICHAEL |
| | WILLIAM GREENE |
| | WILLIAM LENSON |
| 226 | ATTITUDES |
| | CULVER THEATRES INC |
| | DAVID ASHTON |
| | GOLF HAVEN |
| | TONY & ALBAS PIZZA & PASTA |
| 227 | BURGER KING RESTAURANTS |
| 228 | COMERICA BANK |
| | OCCUPANT UNKNOWN |
| 230 | BEAN CREEK STUDIO SCOTTS VLY |
| | CASSIDY INSURANCE AGENCY |
| | CENTRAL COAST LAND DEVELOPMENT |
| | ECKNKR STSNG SCTY OF SANTA CRU |
| | FINANCE ONE CORP |
| | GEORGE OW |
| | JOHN N MASTERSON INSURANCE |

## MOUNT HERMON RD 2003 (Cont'd)

| | |
| --- | --- |
| 230 | KINGS VLG SHPNG CTR SRVC |
| | NANCY DUNNING |
| | NUNN & ASSOCS INC |
| | OW TERRY REALTY |
| | PINNACLE GROUSE |
| | RADIO CNNECTIONS SEEING BEYOND |
| | SEEING BEYOND |
| | STAN DEMPEWOLF |
| | SUNSHINE BAKERY |
| | THOMAS R LINDSAY CPA |
| | WATERSYSTEMS CLEANING OF NO CA |
| 231 | WINSTON TIRE CO |
| 233 | TACO BELL |
| 235 | BAY PHOTO LAB |
| | CELLULAR ONE |
| | CELLULAR ONE SCOTTS VALLEY |
| | CIGARETTES CHEAPER NO |
| | SPECIAL EFFECTS ARCADE |
| | TIMS EXPRESS |
| 237 | CENTURY 21 SHOWCASE REALTORS |
| | ERIC FISHER |
| | FISHER E & B DR |
| | HEALING HANDS HEALING HEARTS |
| | LIVING HEALTH CHIROPRACTIC |
| | MANJUSHRI INSTTT OF SANTA CRUZ |
| | STEPHEN ZIGANTI |
| 243 | ABLE PRINTING |
| | BALLOON CREATIONS |
| | BROOKE SPENCER |
| | DREAMLINE BOUTIQUE |
| | EL FARO TAQUERIA |
| | KATHLEEN A ALLES DPM |
| | KATHLEEN ALLES |
| 245 | A PLUS SERVICES |
| | AARON NILSEN |
| | ALEXANDRA PETERS |
| | ART CLEANERS |
| | ARTHUR SCHLOSSER |
| | BASKIN ROBBINS |
| | BILL CHAPMAN AUTOMOTIVE |
| | BLOCK H & R |
| | CHATZ ROASTING CO |
| | COMMERCIAL INVESTMENT SERVICES |
| | CORNER STONE FITNESS INC |
| | DEE SHERMAN |
| | ERIKA JOWYCKOFF |
| | EUGENIA RONCONE |
| | GIOVANE MEDICAL SERVICES INC |
| | GREENE WILLIAM CLAYTON JWLR |
| | INTERIOR LANDSCAPE ENTERPRISES |

## MOUNT HERMON RD 2003 (Cont'd)

245 IPOLIS CORP
JEFF MCMULLEN
JEFFREY TAYLOR
JOANLAR INC
JOHN MAURICE HARTSON INC
JOY HOOVER
KAREN VIDALI
KRIS KAHN
LOEWEN & FRECH INC
MAIL BOXES ETC
MICHAEL CRUZ
MONTEREY BAY HOME INSPECTIONS INC
NATURES TREASURES
OCEAN ST FARM
PAPA MRPHYS TAKENBAKE PIZZA
PERFECT CUT
PURE VALLEY WATER INC
RADIOSHACK CORP
ROBERT BINGHAM
ROUND TABLE PIZZA
RV NAILS
SCOTTS VALLEY CYCLESPORT
SEMICON NETWORK
SILVAS MOBILE GLASS
UDT THOMPSON
VICTORIA MOULTON
WAYNE ROBINSON
WEST BOND INC
WESTSIDE BEAUTY SUPPLY & SALON
WINE PRINCESS
247 OCCUPANT UNKNOWN
WASHINGTON MUTUAL
253 OCCUPANT UNKNOWN
SAFEWAY FOOD & DRUG INC
SAFEWAY FOOD & DRUG SCOTTS VLY
WELLS FARGO BANK
255 CLOTHESTIME
GIANNOTTI ANTHONY P OD
INSIGHT EYECARE CTR
OCCUPANT UNKNOWN
SCOTTS VALLEY CHILDRENS CTR
257 LONGS DRUG STORES
259 MCDONALDS RESTAURANT
260 OCCUPANT UNKNOWN
SUBURBAN PROPANE
263 SCOTTS VALLEY GOLF COURSE
266 CLOTHES PIN
DR ANTHONY GIANNOTTI
ENTERPRISE RENT A CAR
GOTTSCHALKS

## MOUNT HERMON RD 2003 (Cont'd)

| | |
| --- | --- |
| 266 | PAYLESS SHOESOURCE |
| | QUEEN NAILS |
| | SCOTTS VALLEY JEWELERS |
| | SUPERCUTS |
| | TOGOS EATERY |
| | TOGOS OF SCOTTS VALLEY |
| 269 | ELEONOR MALABANAN |
| | MIXED SIGNAL SYSTEMS INC |
| | PUREAUDIO PARTNERS |
| | SESAME TECHNOLOGY |
| | SOLIDUM SYSTEMS |
| | TAU NETWORK INC |
| | WILKES SURGICAL ASSOCS PA |
| 270 | KMART |
| | KMART STORES |
| 272 | ABLE SHOE REPAIR |
| | OCCUPANT UNKNOWN |
| | SCOTTS VALLEY CLEANERS |
| 274 | 7 ELEVEN FOOD STORES |
| 276 | STORAGE DEPOT |
| 662 | OCCUPANT UNKNOWN |
| | WESCOSA INC |
| | WESCOSA INTERNATIONAL |
| 1210 | HEAVENLY CAFE |
| | OCCUPANT UNKNOWN |
| 1214 | JOSEPH MANDELLA |
| 1230 | LORIN OLSON |
| | LORIN P OLSON PE |
| | OLSON ENGINEERING |
| 1256 | JENNY RALSTON |
| 1260 | CONNIE TROMBETTA |
| 1264 | WAYNE STRAWN |
| 1270 | GEORGE DUFOUR |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Cole Information Services |

# MOUNT HERMON RD 1999

| | |
|---|---|
| 225 | A MYREN |
| | ALEXANDER PEDEMONTE |
| | ALVIN NANCE |
| | ARLENE CHRISTIE |
| | ARLENE WALSH |
| | AUDREY VIZZARD |
| | BARBARA HIGGS |
| | BARBARA LARRABEE |
| | BARBARA SYMONS |
| | BEE CHUBB |
| | BRIAN ALUFFI |
| | C STEINHAUS |
| | CARLENE LARUE |
| | CAROL DOYLE |
| | CAROL LANCE |
| | CHAN MACKENZIE |
| | CHARLES GREER |
| | CHARLIE TERPSTRA |
| | CHARMAINE LEGATE |
| | CHRISTINA ZIELINSKI |
| | CLAUDIA HODSDON |
| | CORRINE RILEY |
| | DAN HICKS |
| | DAVID DESTAILLATS |
| | DAVID RASMUSSEN |
| | DOLORES FAGAN |
| | DON FINNEY |
| | DONALD EDWARDS |
| | DONALD NEWFARMER |
| | DONALD YEE |
| | DONNA BUELOW |
| | DONNA HILL |
| | DONNA LEWIS |
| | DORLE RUSSELL |
| | DOROTHY SEIB |
| | DOROTHY WASH |
| | EARL AMOS |
| | EILIF LAND |
| | ELAINE SLIGHTE |
| | ELEANOR FOLKINS |
| | ELWOOD PERKINS |
| | EVELYN LYNCH |
| | F MEIER |
| | FORREST FACKLER |
| | FRANKIE DALZIEL |
| | FRANKLIN WALKER |
| | G PETERSON |
| | GARY LUTTRINGER |
| | GARY SELLERS |
| | GENE FLETCHER |

# MOUNT HERMON RD 1999 (Cont'd)

| | |
| --- | --- |
| 225 | GEORGE WALTER |
| | GORDON HYDE |
| | GRANT HENINGER |
| | H MARKS |
| | HERBERT LEIPPE |
| | HOWARD CRAMPTON |
| | IRMA LIPPOLD |
| | JAMES BRANDON |
| | JAMES FULLERTON |
| | JAMES JORRICK |
| | JANET YOUNG |
| | JEAN EVERETT |
| | JEAN SLAUGHTER |
| | JERALD REICH |
| | JOAN DODDS |
| | JOAN STANLEY |
| | JOHN DALY |
| | JOHN DURCAN |
| | JOHN GRAY |
| | JOHN JAMIESON |
| | JOHN MELLON |
| | JOHN SULLIVAN |
| | JOHN WILDER |
| | JOSEPH ZAGAMI |
| | JUDITH NEWTON |
| | JUNE LEGGE |
| | JUNE NOLAND |
| | KEITH MILLER |
| | KENNETH WOODBRIDGE |
| | KERRY SILVANIA |
| | LADISLA PINHEIRO |
| | LANG VO |
| | LEE GROBE |
| | LEONARD VOGEL |
| | LILLIAN GORDON |
| | LILLIAN TAFT |
| | LORETTA NIELSEN |
| | LOUIE DOUZEFF |
| | LOUISE HICKEY |
| | MARGARET GILLIS |
| | MARILEE GREGORY |
| | MARIO ALFARO |
| | MARK GIBLIN |
| | MARK TOLAIO |
| | MARTHA DANIELE |
| | MARY ACHTERBERG |
| | MICHAEL DILLOUGHERY |
| | MIKE TAYLOR |
| | MYRLYN TUENAB |
| | NANCY ALBRIGHT |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Cole Information Services |

## MOUNT HERMON RD 1999 (Cont'd)

| | |
|---|---|
| 225 | OLIVE PHILLIPS |
| | PAT GEIGER |
| | PATRICIA CHRISTMANN |
| | RALPH PIKE |
| | RICHARD MERRILL |
| | RITA PALO |
| | ROBERT LINDBLAD |
| | ROBERT OPPELT |
| | ROLAND STOLT |
| | RON FRAZIER |
| | RONALD SOUZA |
| | ROYCE HUTCHINSON |
| | RUSS OVERBY |
| | SARA EGOL |
| | SCOTT BUCK |
| | SELMA STENTON |
| | SHIRLEY SCHIEFFER |
| | SIBYL MELIN |
| | SPRING LAKES PARK |
| | TERRY KERNS |
| | THELMA DAYTON |
| | TIM SMITH |
| | TRACY GRANLUND |
| | VIRGIL KANNALL |
| | VIRGINIA MCCAMMON |
| | VIVAN LOGAN |
| | WALTER BLEECKER |
| | WALTER MALSBARY |
| | WILLIAM CROUSER |
| | WILLIAM LENSON |
| | WILLIAM NADEAU |
| 226 | PINNACLE GROUSE |
| | SCOTTS VALLEY 4 CINEMAS |
| | TONY & ALBAS PIZZA & PASTA |
| 227 | BURGER KING RESTAURANTS |
| 228 | COMERICA BANK |
| 230 | BACKSTAGE |
| | CASSIDY INSURANCE AGENCY |
| | CHAPMAN HANK FARMERS INSURANCE |
| | ECKANKAR SATSANG SOCIETY OF SANTA CRUZ |
| | FARMERS INSURANCE GROUP AGENTS SCOTTS VALLEY |
| | FINANCE ONE CORPORATION |
| | FROM THE HEART |
| | KINGS VILLAGE SHOPPING CENTER FOOD |
| | KINGS VILLAGE SHOPPING CENTER RETAIL |
| | KINGS VILLAGE SHOPPING CENTER SERVICES |
| | KINGS VILLAGE SHPG CENTER ADMNSTRV OFFICES |
| | LINDSAY THOMAS R CPA |
| | MASTERSON JOHN M INS |
| | MAYFIELD JACK ASSOCIATES |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Cole Information Services |

## MOUNT HERMON RD 1999 (Cont'd)

| | |
|---|---|
| 230 | NLP INSTITUTE CALIFORNIA INCORPORATED |
| | NUNN & ASSOCIATES INCORPORATED |
| | OW TERRY REALTY |
| | SANTA CRUZ LIBRARIES A CITY COUNTY LIBRARY SYSTEM |
| | SCOTTS VALLEY CITY OF LIBRARY-SANTA CRUZ CITY-COUNTY |
| | SEEING BEYOND |
| | SUNSHINE BAKERY |
| 231 | A SIGN ASAP |
| | ASAP A SIGN |
| | ASSIGN ASAP |
| | SUBWAY SANDWICHES & SALADS |
| | WINSTON TIRE COMPANY |
| 232 | AMERIGAS |
| 233 | TACO BELL NO 2356 |
| 235 | BAY PHOTO LABORATORY |
| | CELLULAR ONE SERVING SANTA CRUZ COUNTY |
| | CIGARETTES CHEAPER NO 239 |
| | SPECIAL EFFECTS ARCADE |
| | TIMS EXPRESS |
| 243 | A FOOT & ANKLE CLINIC DR KATHLEEN A ALLES |
| | ADVANCE AMERICA |
| | ALLES KATHLEEN A DPM |
| | FOOT LOOSE JUICE |
| 245 | ANNIE LARSON |
| | ART CLEANERS |
| | BASKIN ROBBINS 31 ICE CREAM STORES |
| | BAY BEAUTY SALON |
| | BAY BEAUTY SUPPLIES & SALON |
| | BLOCK H & R |
| | BRUNOS BARBECUE |
| | CHATZ ROASTING COMPANY |
| | DONALD PFEIFFER |
| | GREENE WILLIAM CLAYTON JEWELERS |
| | JAMES KELLUM |
| | JOANLAR INCORPORATED |
| | KRAGEN AUTO PARTS |
| | MAIL BOXES ETC |
| | MARK HEATH |
| | MICHELE VALDOVINOS |
| | PAPA MURPHYS TAKE N BAKE PIZZA |
| | PERFECT CUT THE |
| | PURE VALLEY WATER INCORPORATED |
| | R V NAILS |
| | RDO SHACK A DIVISION OF TANDY CORPORATION CONSUMER ELECTRONI |
| | ROUND TABLE PIZZA |
| | SCOTTS VALLEY UNIFORM |
| | SCOTTS VALLEY VACUUM CENTER |
| | SILVAS MOBILE GLASS |
| | SILVAS MOBILE GLASS OFFICE |
| | THOMAS WYCKOFF |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Cole Information Services |

## MOUNT HERMON RD 1999 (Cont'd)

| | |
|---|---|
| 245 | VIDEO BOX OFFICE |
| 247 | HOME SAVINGS OF AMERICA |
| | HOME SAVINGS OF AMERICA SCOTTS VALLEY |
| 253 | SAFEWAY STORES |
| | WELLS FARGO BANK |
| 255 | CLOTHESTIME THE |
| | ELISABETH STEWART |
| | INSIGHT EYECARE CENTER |
| | SCOTTS VALLEY CHILDRENS CENTER |
| | SHEN DANIEL DR |
| | SONNLEITNER MICHAEL DR |
| 257 | LONGS DRUG STORES SCOTTS VALLEY |
| 259 | MCDONALDS RESTAURANT |
| 260 | SUBURBAN PROPANE MAIN OFFICE |
| 262 | SHUICHI ITO |
| 263 | SCOTTS VALLEY GOLF CRS VALLEY GARDENS GOLF CRS |
| | VALLEY GARDENS GOLF COURSE |
| 266 | A PODIATRY GROUP THE FOOT DOCTORS OF SANTA CRUZ COUNTY |
| | BEAUTY DEPOT SALON |
| | BEAUTY SUPPLY DEPOT |
| | CARLSON TRAVEL NETWORK |
| | CENTURY 21 SHOWCASE REALTORS |
| | CHUBBYS DINER |
| | DIANES HAIRSTYLING |
| | EVANS J RANDALL DR PODTRST |
| | FOOT DOCTORS OF SCOTTS VALLEY |
| | GIANNOTTI ANTHONY P 0D |
| | GOTTSCHALKS |
| | IMBODEN DAVID R DVM |
| | LEVY CATHY DVM |
| | LITTLE CAESARS PIZZA |
| | MT HERMON VETERINARY CLINIC |
| | PAYLESS SHOESOURCE |
| | QUEEN NAILS |
| | SCOTTS VALLEY JEWELERS |
| | SUNSATIONAL TANNING OF SCOTTS VALLEY |
| | SUPERCUTS |
| | TOGOS EATERY |
| 269 | CARSEM INCORPORATED |
| | EUROPEAN MIKROGRAF CORPORAT |
| | FIREFLY INCORPORATED |
| | IDE INCORPORATED |
| | IDEVCO INCORPORATED |
| | MAYKO |
| | NADEL PHELAN AGENCY |
| | OPEN TECHNOLOGY SERVICES INCORPORATED |
| | SILICON ENGINEERING |
| | VISION FACTORY THE |
| | ZAYANTE INCORPORATED |
| 270 | KMART STORES |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Cole Information Services |

## MOUNT HERMON RD 1999 (Cont'd)

| | |
|---|---|
| 272 | ABLE SHOE REPAIR |
| | SCOTTS VALLEY CLEANERS |
| 274 | 7 ELEVEN FOOD STORES |
| 276 | STORAGE DEPOT |
| 620 | SOQUEL ELEMENTARY SCHOOL DISTRICT DISTRICT OFFICE |
| 662 | WESCOSA INTERNATIONAL |
| | WEST COAST SALES |
| 1210 | HEAVENLY CAFE |
| 1213 | KIRBY ELECTRIC COMPANY |
| 1230 | LORIN OLSON |
| | OLSON LORIN P PE |
| 1260 | GEORGE CUMMINS |
| 1270 | GEORGE DUFOUR |
| | OCCUPANT UNKNOWN |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Cole Information Services |

# MOUNT HERMON RD 1995

| | |
|---|---|
| 225 | AMOS, EARL B |
| | ANDERSON, WELDON |
| | ANDRESEN, J |
| | ARCHER, JULES |
| | AYMARD, DENIS C |
| | BAILEY, EUGENIE E |
| | BAUER, EARL |
| | BEERS, WALTER M |
| | BENTLE, JACK |
| | BISHOP, R H |
| | BLEECKER, WALTER |
| | BROSE, JOHN |
| | BROWN, MARCIA C |
| | BRYAN, GLADYS |
| | BUDWORTH, FRANK P |
| | BURDETTE, L A |
| | BURNS, T L |
| | CARDIFF, HOWARD |
| | CARDWELL, L J |
| | CAREY, KENNETH C |
| | CARL, LYNN |
| | CARLSON, ARVID F |
| | CARMICHAEL, WILLIAM H |
| | CARSKADON, A |
| | COAD, MARY I |
| | COLBERT, WILLIAM C |
| | CUMMINGS, LEE |
| | CUSHING, JOHN H |
| | DALZIEL, FRANKIE E |
| | DANIELE, NEIL A |
| | DARNELL, THOMAS M |
| | DAVIS, J F |
| | DAVIS, JERRY |
| | DEVRIES, JACK |
| | DICK, VESTER |
| | DREYER, RALPH H |
| | EDWARDS, DONALD D |
| | ELDRED, H G |
| | ELROD, L M |
| | EMLEN, ANDREW A |
| | ENGLAND, S |
| | EPPARD, CLIFF |
| | ERDAHL, G N |
| | ERICSSON, MARTIN G |
| | EVERETT, CLYDE S |
| | FARRELLY, PETER C |
| | FINCH, RALPH |
| | FLEURY, VELMA |
| | FRANK, E |
| | FREDERICKS, RONALD A |

# MOUNT HERMON RD 1995 (Cont'd)

| | |
| --- | --- |
| 225 | FULLENWIDER, FRANK |
| | GARDNER, RICHARD P |
| | GENELLE, A V |
| | GIBSON, ARLO |
| | GIBSON, J G |
| | GILLESPIE, BILL D |
| | GORDON, ALBERT |
| | GRAHAM, BILL |
| | GRAY, M |
| | GREENE, WILLIAM L |
| | GREER, CHARLES D |
| | GREGORY, CHARLES N JR |
| | GRIEBLING, C F |
| | GUNN, HAROLD A |
| | HALLAM, RICHARD E |
| | HANSEN, WILLIAM L |
| | HART, FRANCIS |
| | HASSLER, EARL K |
| | HENDERSON, E W |
| | HILL, WALTER L |
| | HILTS, HAROLD |
| | HODEL, HENRY W |
| | HOLMLUND, ARTHUR |
| | HOOK, ANDREW |
| | HUFF, V L |
| | INGRAM, MACK |
| | IRELAND, JOE |
| | IRWIN, RUTH |
| | JACOBSON, A |
| | JOURDAN, FRANK B |
| | KAUFFMAN, HAROLD E |
| | KELLER, KARL H |
| | KERBER, AGNES M |
| | KING, V H |
| | KIPMAN, STANLEY |
| | KORSVALL, NILS |
| | KRAYENBUHL, JOHN |
| | LARSON, VERNON E |
| | LAVIOLETTE, MARY E |
| | LEA, CORINNE O |
| | LEVIN, D |
| | LINDQUIST, ROBERT |
| | LIPPOLD, I |
| | LUNT, VERA P |
| | LYNN, B L |
| | LYON, H R |
| | MACKENZIE, CHAN |
| | MCCAMMON, CHARLES E |
| | MCCAULEY, ALLEN G |
| | MCCLURE, JAMES A |

# MOUNT HERMON RD 1995 (Cont'd)

225
MCGLOTHLAN, J A
MEANS, DEBRA L
MEYERS, H
MILAM, F E
MILLER, KEITH
MIRAMON, EUGENE V
MOIR, M M
MORELLI, O
MORTON, M
MULVANY, L
MYREN, A
NANCE, ALVIN L
NEILSEN, EARL
NEWCOMB, DORTHEA D
NEWLON, ELROY E
NEWTON, CLARK A
OLIVIERI, J L
OVERBY, D R
PAINE, B D
PASSARINO, A D
PEARSON, GEORGE H
PERRY, K
PETERSON, G
PETERSON, M V
PETITDIDIER, WALTER C
PHILLIPS, C H
PICCARDO, O A
PRINCE, JOHN E
PROBERT, ELEANOR
RASMUSSEN, THOMAS
RIIS, JACK J
RILEY, MANTON L
ROSSI, A W
SCHLIEF, E
SHAW, PHILIP M
SHORT, KENNETH
SIMMONS, F E
SLATER, A
SLIGHTE, E
SLIGHTE, RAY
SMITH, BERNICE L
SMITH, E A
SMITH, EDNA L
SNOW, HAROLD L
SPRING LAKES PARK
STANYER, JOHN K
STEINHAUS, A J
STEVENS, J L
STEVENSON, RUTH E
THOMAS, LUCILE

## MOUNT HERMON RD 1995 (Cont'd)

| | |
| --- | --- |
| 225 | TOUREK, JAMES C |
| | VANSYOC, CURTIS E |
| | WEDIG, JOSEPH |
| | WELLS, CHARLES |
| | WELLS, D J |
| | WILLIAMS, RICHARD H |
| | WOLFF, FRED |
| | WORKMAN, RAY S |
| | YOUNG, F E |
| | ZAGAMI, JOSEPH |
| 226 | ANDREWS SHOES FAMILY SHOE STR |
| | BACKSTAGE INC |
| | BIKE RACK |
| | HIGH COUNTRY COFFEE CO |
| | PIZZA CO |
| | SCOTTS VALLEY CINEMAS |
| 227 | BURGER KING |
| 228 | PACIFIC WESTERN BANK |
| 230 | BEGINNINGS |
| | BEHAVIORAL ENGINEERING |
| | BETTER HOMES FINANCIAL SVC |
| | CASSIDY INSURANCE |
| | FARMERS INSURANCE GROUP |
| | FROM THE HEART GIFT STORES |
| | INS, JOHN M |
| | JUN LEE & ASSOC |
| | ROB RYAN ASTROLOGER |
| | SCOTTS VALLEY JOES |
| | SCOTTS VALLEY LIBRARY |
| | TERRY OW REALTY |
| | THOMAS R LINDSAY CPA |
| 231 | A SIGN ASAP |
| | GOODYEAR SCOTTS VALLEY |
| | SUBWAY SANDWICHES & SALADS |
| 232 | AMERI GAS |
| 233 | TACO BELL |
| 235 | BAY PHOTO LAB |
| | COAST COMMERCIAL BANK |
| | SPECIAL EFFECTS ARCADE |
| | TIMS EXPRESS |
| 237 | GOLDEN WEST RESTAURANT |
| 243 | ABLE PRINTING |
| | ALLES, K A |
| | GALLERIA YOGURT CAFE |
| | PETTING ZOO |
| 245 | ART CLEANERS |
| | CANNELL, H |
| | COMPUTER DESIGN |
| | DIANE POTTER HAIRSTYLING |
| | KAWAKAMI, ALLAN |

# MOUNT HERMON RD 1995 (Cont'd)

| | |
| --- | --- |
| 245 | KRAGEN AUTO PARTS |
| | LAURENE, JENON |
| | MAIL BOXES ETC |
| | NILSEN TRUDEAU & ASSOC |
| | ORGANIZING SPECIALISTS |
| | PERFECT CUT |
| | PURE VALLEY WATER INC |
| | RADIO SHACK |
| | ROBINSON, DIANNA |
| | ROUND TABLE PIZZA |
| | SCOTTS VALLEY BEAUTY SUPPLY |
| | SCOTTS VALLEY UNIFORM |
| | SCOTTS VALLEY VACUUM CTR |
| | SKATEWORKS |
| | STEPHANIES VIDEO HOME RENTALS |
| | STEWART, EDITH |
| | VIDEO BOX OFFICE |
| | VILLAGE FLORIST |
| | VONKAENEL, MARK |
| | WESTERN UNION |
| | WILLIAM CLAYTON GREENE JWLRS |
| | YOUNG, BARTON D |
| | ZUCCOLOTTO, DAVID |
| 247 | HOME SAVINGS OF AMERICA |
| 253 | SAFEWAY STORES INC |
| 255 | BANK OF AMERICA |
| | CLOTHES TIME INC |
| | INSIGHT EYE CARE CTR |
| | KIM THOMPSON MEIER OD |
| | MICHAEL SONNLEITNER OD |
| 257 | LONGS DRUG STORE |
| 259 | MC DONALDS |
| 260 | SUBURBAN PROPANE |
| 263 | SCOTTS VALLEY GOLF COURSE |
| | VALLEY GARDENS GOLF COURSE |
| 266 | ANTHONY P GIANNOTTI OD |
| | BEAUTY DEPOT SALON |
| | BEAUTY SUPPLY DEPOT |
| | CARLSON TRAVEL |
| | CATHY LEVY DVM |
| | DAVID R IMBODEN DVM |
| | GOTTSCHALKS |
| | HARDING, KATHRYN A |
| | HINDE CHIROPRACTIC CTR |
| | PAYLESS SHOE SOURCE |
| | SUNSATIONAL TANNING |
| | SUPERCUTS |
| | TOGOS EATERY |
| 269 | DIVERSIFIED FINANCIAL |
| | ECLECTEC SOFTWARE |

## MOUNT HERMON RD 1995 (Cont'd)

| | |
| --- | --- |
| 269 | HARTMAN, CAROLE |
| | IDE INC |
| | IDEVCO INC |
| | METAGRAPHICS |
| | STREAMLINE SOFTWARE INC |
| | SYZYGY COMMUNICATIONS INC |
| | THURIDION INC |
| | WILLIAM M HOLL & ASSOC |
| 270 | K MART |
| 272 | ABLE SHOE REPAIR |
| | SCOTTS VALLEY CLEANERS |
| 274 | 7 ELEVEN FOOD STORE |
| 276 | STORAGE DEPOT |
| 1210 | DARLENES VALLEY LOUNGE |
| 1213 | KIRBY ELECTRIC CO |
| 1230 | OLSON & OLSON |
| 1270 | DUFOUR, GEORGE |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Cole Information Services |

# MOUNT HERMON RD 1992

225 ALLEN, J L
AYMARD, DENIS C
BROUGHTON, D
BROWN, JAMES C
BULL, F G
BURNS, T L
DAVIS, J F
DAVIS, JERRY
FLEURY, VELMA
FRANK, E
GIBSON, ARLO
GOLDMAN, HAROLD M
GRAHAM, BILL
GRAHAM, LOLA B
GUNN, WALTER W
HART, FRANCIS
HART, HENRY M
HOEFLER, P S
IRELAND, JOSEPH G
JACOBSON, A
KORSVALL, NILS
KRAYENBUHL, J F
LEVIN, D
MEISEMHEIMER, RICHARD F
MULVANY, L I
PERRY, K
PETERSON, G
PETERSON, M V
RILEY, MANTON L
SCHINDLER, MAURICE E
SCHLIEF, E
SHORT, KENNETH
SLATER, A
SLIGHTE, E
SLIGHTE, RAY
SMITH, CHARLES F
SPRING LAKES PARK
STEVENSON, RUTH E
WELLS, CHARLES
WELLS, D J

226 ANDREWS SHOES
BACKSTAGE
G&B PRESENTATIONS
HIGH COUNTRY COFFEE
PIZZA COMPANY
SCOTTS VLY CINEMA

227 BURGER KING REST

230 BEGINNINGS
BEHAVIORAL ENGINRNG
BETTER HOME FNCL SV

## MOUNT HERMON RD 1992 (Cont'd)

| | |
| --- | --- |
| 230 | BLACK FOREST BKRY |
| | CASSIDY INS AGENCY |
| | COOK JUNE H INS |
| | FRANCK JOSEPH CPA |
| | FRANCK, JOSEPH H |
| | FROM THE HEART STR |
| | LEE JUN&ASSOCIATES |
| | LINDSAY THOS R CPA |
| | OW TERRY REALTY |
| | PENINSULA FUNDING |
| | RYAN ROB ASTROLOGER |
| | SCOTTS VLY CTY LBRY |
| | SCOTTS VLY LBRY |
| | ST JAMES CLUB |
| | VOICE EXPRESS OF CA |
| 231 | A SIGN ASAP |
| | SCOTTS VLG TIRE INC |
| | SUBWAY SANDWICHES |
| 232 | AMERIGAS |
| 233 | TACO BELL NO 2356 |
| 235 | BAY PHOTO LAB |
| | COAST COML BK BRNCH |
| | SPECIAL EFFCTS ARCD |
| | TIMS EXPRESS |
| 237 | GOLDEN WEST RSTRNT |
| 243 | ABLE PRINTING |
| | BOOKS FOR KIDS |
| | GALLERIA YOGURT CFE |
| | KAROLS KORNER |
| 245 | ART CLEANERS |
| | BASKIN&ROBBINS 31 |
| | BOOK BANK THE |
| | GREENE WILLIAM JWLR |
| | KRAGEN AUTO WORKS |
| | LE PIERROTS |
| | PERFECT CUT THE |
| | PIZZA MAKER THE |
| | POTTER D HAIRSTYLNG |
| | PURE VALLEY WATER |
| | RADIO SHACK |
| | REYNOLDS KENNETH F |
| | REYNOLDS, KENNETH F |
| | ROUND TABLE PIZZA |
| | SCOTTS VLY BTY SPLY |
| | SKATEWORKS |
| | THE ROUND TBL PIZZA |
| | VALLEY TRAVEL |
| | VIDEO BOX OFFICE |
| | VILLAGE FLORIST THE |
| | WESTRN UNION |

## MOUNT HERMON RD 1992 (Cont'd)

253 SAFEWAY ST
255 CLOTHES TIME THE
INSIGHT EYECARE CT
MILLER, TRACY A
PETTING ZOO THE
SECURITY PAC BANK
SONNLEITNER, MICHAEL
257 LONGS DRUG PHOTO
259 MCDONALDS RSTRNT
260 SUBURBN PROPANE
263 VALLEY GRDN GLF CRS
266 BANK AM OTHER DEPTS
BEAUTY DEPOT SALON
GIANNOTTI A P OD
GOTTSCHALKS
HINDE CHIROPRTC CTR
MT HERMON VET CLINC
PIERRA FASHIONS
SUNSATIONAL TANNING
SUPERCUTS
SWENSENS ICE CREAM
TOGOS EATERY
WOW WEE FOODS
269 APPLIED MOTION PRDS
DATASHIELD
DIVERSFD FINANCIAL
E V A X TECH INC
HOLL WM M&ASCTS AIA
I D E INC
IDEVCO INC
INVISION
METAGRAPHICS
N N A CORP
SYZYGY COMMNCTNS
WANGTEK
270 K MART 9797
PAYLESS SHOESOURCE
272 ABLE SHOE REPAIR
SCOTTS VLY CLEANERS
274 SEVEN 11 FOOD
276 STORAGE DEPOT
662 EBERHART, JOAN
WESCOSA INC
781 JAEGER, TED L
VANCE, GARNETT
1210 DARLENES VALLEY LNG
1213 KIRBY ELCTL SUPPLY
1230 OLSON, LORIN P
1260 WALTERS, ROBERT
1270 DUFOUR, GEORGE

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Haines Criss-Cross Directory |

## MOUNT HERMON RD 1985



| | | | |
|---|---|---|---|
| 243A | HONEY TREAT YOGURT | 438-7888 | +5 |
| C | GLASS BY GEORGE | 438-6075 | +5 |
| G | ABLE PRINTING | 438-4111 | +5 |
| 245 | BUILDING | | |
| | CA TANNING STUDIO | 438-4927 | 4 |
| | CREEKSIDE CREATIONS | 438-4290 | 4 |
| | DELIAS CLEANR&DRPRY | 438-3431 | 4 |
| | FRENCH FLAVOR | 438-4428 | 4 |
| | P C LAND | 438-5971 | 4 |
| | RADIO SHACK A DIV | 438-1730 | 4 |
| | SALVATORES SALON | 438-8389 | +5 |
| | SWEET INDULGENCE | 438-4399 | +5 |
| | VIDEO BOX OFFICE | 438-0225 | 4 |
| | VILLAGE FLORIST THE | 438-5410 | 4 |
| A | ROUND TABLE PIZZA | 438-5446 | 4 |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Haines Criss-Cross Directory |

## MOUNT HERMON RD 1985



| | | | |
|---|---|---|---|
| MT HERMON RD | | 95066 CONT | |
| | A THE ROUND TBL PIZZA | 438-5446 | 4 |
| | B KRAGEN AUTO SUPPLY | 438-0842 | 4 |
| | J BOOK BANK THE | 438-5450 | 4 |
| | R VALLEY TRAVEL | 438-1933 | 4 |
| | V TAMAURA | 438-1770 | 4 |
| | Z BASKIN&ROBBINS 31 | 438-5578 | 4 |
| 245 | | | |
| 247 | HOME SAVINGS OF | 438-1715 | +5 |
| 253 | SAFEWAY STORES INC | 438-7431 | +5 |
| | SAFEWAY STORES INC | 438-7740 | +5 |
| | SAFEWAY STORES INC | 438-7739 | +5 |
| | SAFEWAY STORES INC | 498-2257 | +5 |
| 255 | HIKARI | 438-5526 | +5 |
| | INSIGHT OPTOMETRY | 438-5526 | +5 |
| | A ELAINS FABRIC | 438-0844 | +5 |
| | C BULLSEYE THE | 438-5674 | +5 |
| 257 | LONGS DRUG | 438-4874 | 4 |
| | LONGS DRUG PHOTO | 438-2708 | 4 |
| | LONGS DRUG PRSCRPTN | 438-5920 | 4 |
| 259 | MCDONALDS REST | 438-9920 | 4 |
| 263 | SCOTTS VLY GOLF CRS | 438-3058 | 3 |
| | VALLEY GRDN GLF CRS | 438-3058 | |
| 294 | CAL GAS S CRZ | 438-3400 | 0 |
| 450 | VANGAS INC | 438-2004 | 0 |
| 658 | XXXX | 00 | |
| 662 | WESCOSA INC | 438-4600 | |
| | WESCOSA INTERNATNL | 438-4601 | |
| | WEST COAST SALES | 438-4600 | |
| | A FRIEDMAN JAY | 438-3996 | +5 |
| 666 | SUTHERLAND MARY V | 438-5627 | 4 |
| 668 | OBRIENS JANITORL SV | 438-6172 | 2 |
| | TURNER CHESTER | 438-6172 | 1 |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Haines Criss-Cross Directory |

## MOUNT HERMON RD 1980



| | | | |
|---|---|---|---|
| 227 | XXXX | 00 | |
| 228 | * COUNTY BNK STA CRUZ | 438-2111 | |
| 230 | * C C COLOR LAB | 438-4610 | +0 |
| | * INTIMATE WOMAN | 438-4502 | +0 |
| | * JUICE CITY | 438-5903 | +0 |
| | * M Q K CORPORATION | 438-4532 | +0 |
| | * NICHOLS APPLNCS&TV | 438-5330 | +0 |
| | * VICTORIAN OAK HS BR | 438-5903 | +0 |
| | * VICTORIAN OAK HS RS | 438-5900 | +0 |
| 233 | * ALADDINS MBL&MOD HM | 438-4200 | 7 |
| 255 | * REBEL IRON | 438-2240 | |
| 259 | * NADINES POWDER PUFF | 438-3859 | +0 |
| | * OLD TIMER THE | 438-2833 | 9 |
| 261 | * FARMERS INS GROUP | 438-3888 | 8 |
| | * SCOTT BILL | 438-3888 | 8 |
| | * SCOTTS VLY SCOTT IN | 438-3888 | 8 |
| 263 | * VALLEY GRDN GLF CRS | 438-3058 | |
| 294 | * CAL GAS S CRUZ | 438-3400 | +0 |
| 370 | XXXX | 00 | |
| 440 | * KEVEX CORP | 438-5940 | +0 |
| | * WATKINS JOHNSON CO | 438-2100 | |
| 450 | * VANGAS INC | 438-2004 | +0 |
| 658 | XXXX | 00 | |
| 662 | * WESCOSA INC | 438-4600 | 5 |
| | * WESCOSA INTERNATNL | 438-4601 | 5 |
| | * WEST CST SALES | 438-4600 | 5 |
| 666 | * HOLMES LESTER | 438-3020 | |
| | * HOLMES LUMBER CO | 438-3020 | |
| | MCCALL RALPH | 438-5232 | +0 |

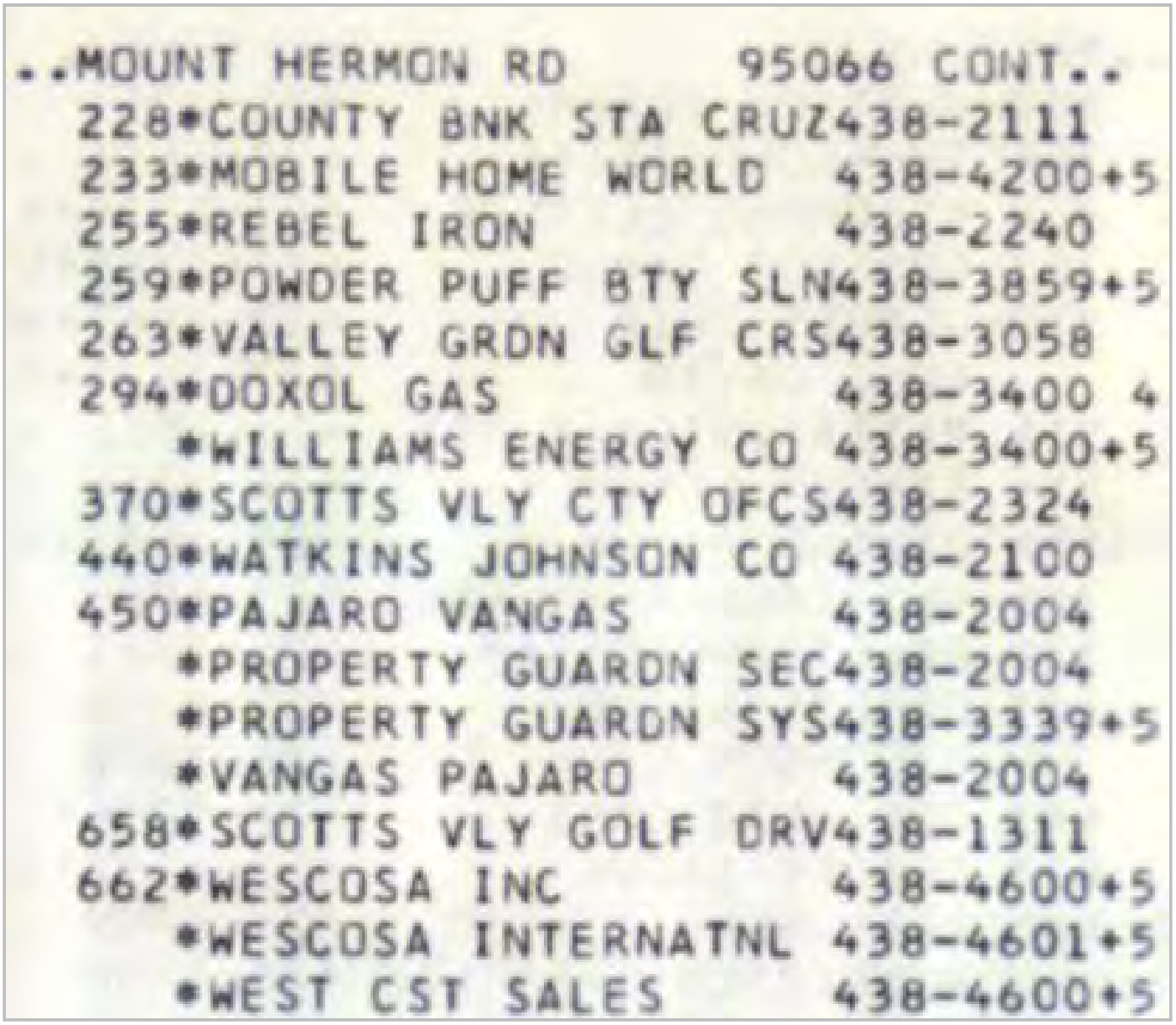
| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Haines Criss-Cross Directory |

## MOUNT HERMON RD 1975



| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Haines Criss-Cross Directory |

## MOUNT HERMON RD 1975



..MOUNT HERMON RD 95066 CONT..
228*COUNTY BNK STA CRUZ438-2111
233*MOBILE HOME WORLD 438-4200+5
255*REBEL IRON 438-2240
259*POWDER PUFF BTY SLN438-3859+5
263*VALLEY GRDN GLF CRS438-3058
294*DOXOL GAS 438-3400 4
*WILLIAMS ENERGY CO 438-3400+5
370*SCOTTS VLY CTY OFCS438-2324
440*WATKINS JOHNSON CO 438-2100
450*PAJARO VANGAS 438-2004
*PROPERTY GUARDN SEC438-2004
*PROPERTY GUARDN SYS438-3339+5
*VANGAS PAJARO 438-2004
658*SCOTTS VLY GOLF DRV438-1311
662*WESCOSA INC 438-4600+5
*WESCOSA INTERNATNL 438-4601+5
*WEST CST SALES 438-4600+5

# APPENDIX C.4
# HISTORICAL FIRE INSURANCE MAPS

Valley Gardens Golf Course
263 Mount Herman Road
Scotts Valley, CA 95066

Inquiry Number: 4764645.3
October 27, 2016

# Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# Certified Sanborn® Map Report

10/27/16

**Site Name:**

Valley Gardens Golf Course
263 Mount Herman Road
Scotts Valley, CA 95066
EDR Inquiry # 4764645.3

**Client Name:**

Ramboll Environ
2200 Powell St Suite 700
Emeryville, CA 94608
Contact: Jason Kane

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Ramboll Environ were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

## *Certified Sanborn Results:*

**Certification #** BDC6-4A94-952C

**PO #** 0321676

**Project** Valley Gardens Golf Course

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 #: BDC6-4A94-952C

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

*The Sanborn Library LLC Since 1866™*

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# APPENDIX D
# PREVIOUS ENVIRONMENTAL REPORTS

L

# 2100

**263 MT HERMON RD, SV, VALLEY GARDENS GOLF COURSE, SITE MIT**

L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, Ca. 94105

In Reply T-3-2
Refer To: C(85)C326

14NOV 1985

Bob Geyer
Superintendent
Scotts Valley Sanitation District
700 Lundy Lane
Scotts Valley, CA 95066

Dear Mr. Geyer:

A preliminary site inspection was made of the Valley Gardens Golf Course site on July 8, 1985. A copy of the investigation report is enclosed for your information.

Comments may be provided by you concerning any aspect of the report. In your response please refer to report number C(85)C326.

EPA routinely provides copies of investigation reports to State agencies. Such releases will be handled according to the basic rules governing business confidentiality claims contained in the Code of Federal Regulations (40 CFR Part 2). Any claim of confidentiality should be made within fifteen (15) working days from the receipt of this letter. EPA will construe a failure to furnish timely comments as a waiver of the confidentiality claim.

If you have questions concerning this report, please contact Jeff Rosenbloom, Superfund Programs Branch at (415) 974-7513.

Sincerely,

Kathleen G. Shimmin
Chief, Field Operations Branch

Enclosure

cc: Dave Hartley, DOHS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, Ca. 94105

In Reply T-3-2
Refer To: C(85)C324

14NOV 1985

Bob Geyer
Superintendent
Scotts Valley Sanitation District
700 Lundy Lane
Scotts Valley, CA 95066

Dear Mr. Geyer:

A preliminary site inspection was made of the Scotts Valley Intermediate School site on July 8, 1985. A copy of the investigation report is enclosed for your information.

Comments may be provided by you concerning any aspect of the report. In your response please refer to report number C(85)C324.

EPA routinely provides copies of investigation reports to State agencies. Such releases will be handled according to the basic rules governing business confidentiality claims contained in the Code of Federal Regulations (40 CFR Part 2). Any claim of confidentiality should be made within fifteen (15) working days from the receipt of this letter. EPA will construe a failure to furnish timely comments as a waiver of the confidentiality claim.

If you have questions concerning this report, please contact Jeff Rosenbloom, Superfund Programs Branch at (415) 974-7513.

Sincerely,

for Kathleen G. Shimmin
Chief, Field Operations Branch

Enclosure

cc: Dave Hartley, DOHS

ecology and environment, inc.
120 HOWARD STREET, SUITE #640, SAN FRANCISCO, CALIFORNIA 94105, TEL. 415-777-2811
International Specialists in the Environment

Purpose: CERCLA Site Inspection

Site: Valley Gardens Golf Course
236 Mount Herman Road
Scotts Valley, CA 95066

Site ERRIS ID Number: CAD069127470

Inspection ID Number: C(85)C326

TDD Number: R-09-8506-22

FIT Investigator(s): Chris Lichens, Chemical Engineer
Steve Wisbaum, Hazardous Waste Specialist

Date of Inspection: 7/8/85

Report Prepared By: Chris Lichens

Report Date: 9/17/85

recycled paper

TABLE OF CONTENTS


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|---|---|---|
| 1.0 | INTRODUCTION | 1-1 |
| 2.0 | SITE HISTORY AND DESCRIPTION | 2-1 |
| | 2.1 Site History | 2-1 |
| | 2.2 Process Description | 2-1 |
| | 2.3 Waste Management Practices | 2-1 |
| 3.0 | ENVIRONMENTAL SETTING | 3-1 |
| | 3.1 Surrounding Area | 3-1 |
| | 3.2 Hydrogeology | 3-1 |
| | 3.3 Surface Water | 3-4 |
| 4.0 | SUMMARY OF FIT INSPECTION | 4-1 |
| 5.0 | CONCLUSIONS AND RECOMMENDATIONS | 5-1 |

Appendices

A Contact Log and Reports

B Site Inspection Report Form

C FIT Photographic Documentation

D City of Scotts Valley Sanitation District Wastewater Analyses

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|---|---|---|
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# 1.0 INTRODUCTION

The Santa Cruz Board of Supervisors has requested assistance from the Environmental Protection Agency (EPA) in determining the source(s) of toxic contamination entering the federally designated "sole source" Santa Margarita aquifer. Ecology and Environment, Inc. (E & E) in its role as subcontractor to EPA has initiated the PA/SI phase of the investigation. The Preliminary Assessment, which consisted of a complete file search and interviews with state/local regulatory agencies, concluded that a site inspection was necessary to evaluate potential environmental hazards associated with effluent discharged to Valley Gardens Golf Course (VGGC). This effluent was from the Scotts Valley Treatment Plant, whose influent was composed of wastewater from various industrial and residential sources.

The purpose of this report is to summarize FIT's inspection activities, describe local environmental conditions, and to recommend future activities, if any, with respect to characterization and source verification of contaminants entering the Santa Margarita aquifer.

# 2.0 SITE HISTORY AND DESCRIPTION

## 2.1 Site History

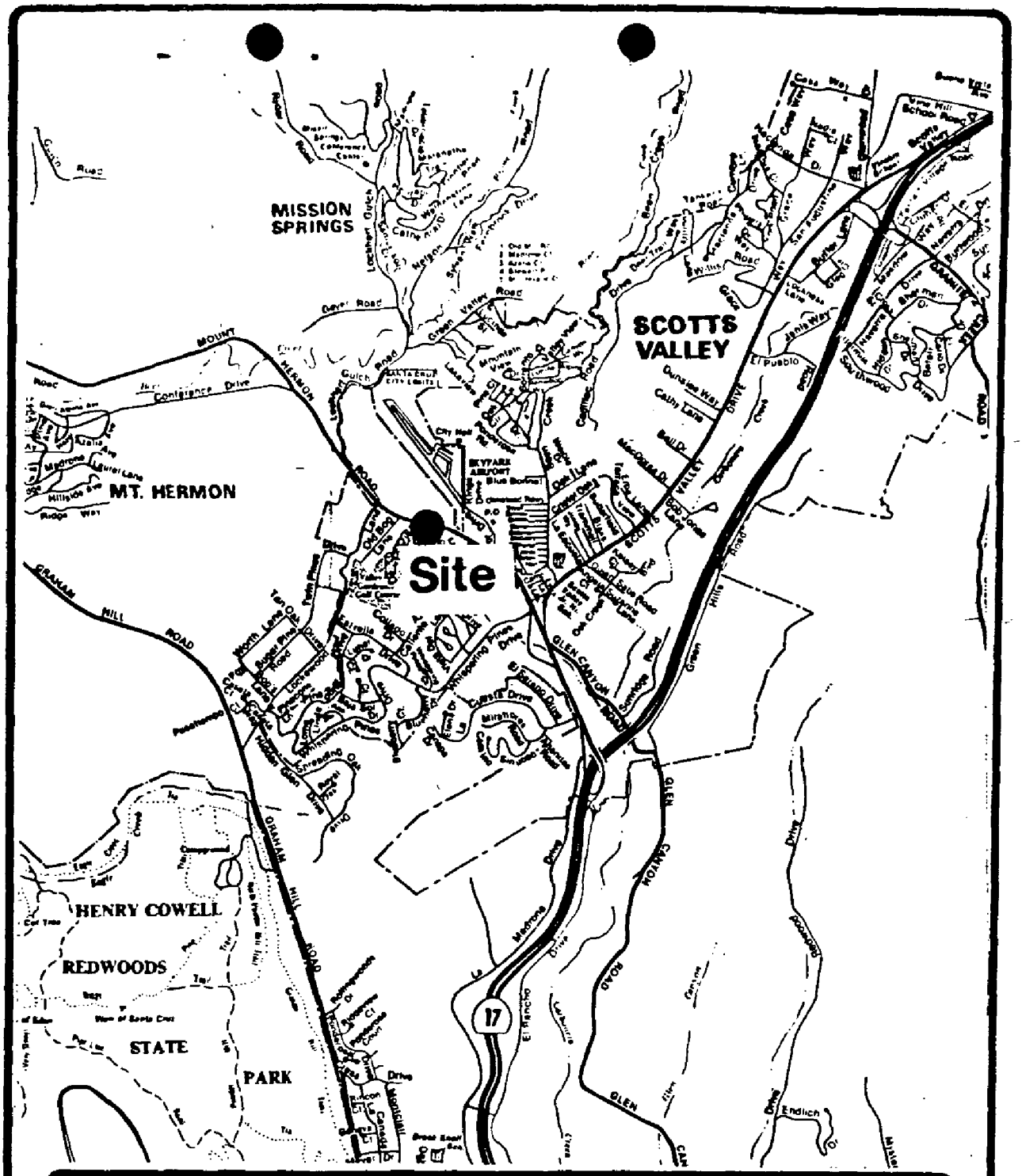
VGGC is located at 236 Mount Herman Road in Scotts Valley, California (see Site Location Map, Figure 2.0). From 1967 to 1983 treated wastewater was sold by the Scotts Valley Treatment Plant to VGGC for discharge into water hazard ponds. This wastewater was subsequently pumped from the water hazard ponds and used for irrigation of fairways and greens. Of various electronic firms, automobile repair shops, machine shops, and other industrial facilities investigated to date, several were connected to the sanitary sewer system while wastewater was discharged to VGGC. Although various volatile organic contaminants and cyanide were detected in sanitary sewage influent and effluent from the City of Scotts Valley in 1985 (see Appendix D for sample results), wastewater that was discharged to VGGC was never monitored for organic contaminants or cyanide. In June of 1972 the Central Coast RWQCB issued Order No. 72-44 regulating the "quality" of effluent disposed at VGGC in relation to total dissolved solid and nitrate concentration. Wastewater has not been disposed of at VGGC since 1983.

## 2.2 Process Description

All wastewater that was discharged at VGGC underwent secondary treatment consisting of an activated sludge process including extended aeration and chlorination (Bob Geyer, Scotts Valley Sanitation District, 8/14/85). Concentrations of the following constituents were monitored: total dissolved solids, sodium, chloride, sulfate, coliform organisms, five-day 20°C biochemical oxygen demand, and dissolved oxygen concentration (Central Coast RWQCB Memo, 9/8/72).

## 2.3 Waste Management Practices

From 1967 until 1973 the City of Scotts Valley Treatment Plant discharged treated wastewater to the VGGC (during the dry season) and to the Skypark Airport Leachfield which was a subsurface percolation


MISSION SPRINGS
SCOTTS VALLEY
MT. HERMON
Site
HENRY COWELL
REDWOODS
STATE
PARK
17
N
Site Location Map
Valley Gardens
Golf Course
Figure 2.0
Scotts Valley Street Map
Copyright by Compass Maps, Inc.
Modesto, CA 1983 Edition

field adjacent to the Skypark Airport. Beginning in 1972 wastewater was discharged to a sand quarry on the Kaiser Sand and Gravel Company property and in 1975 to the playing field at Scotts Valley Intermediate School. Although complete discharge records are not available, the following quantities of waste effluent were discharged to the VGGC water hazard ponds:

May through September, 1980: 16,661,000.00 gallons
June through August, 1981: 13,609,000.00 gallons
October, 1981: 1,842,000.00 gallons
May through July, 1982: 6,266,790.00 gallons
September through October, 1982: 3,300,000.00 gallons
July through September, 1983: 1,750,960.00 gallons

(City of Scotts Valley Wastewater Effluent Usage Records)

# 3.0 ENVIRONMENTAL SETTING

## 3.1 Surrounding Area

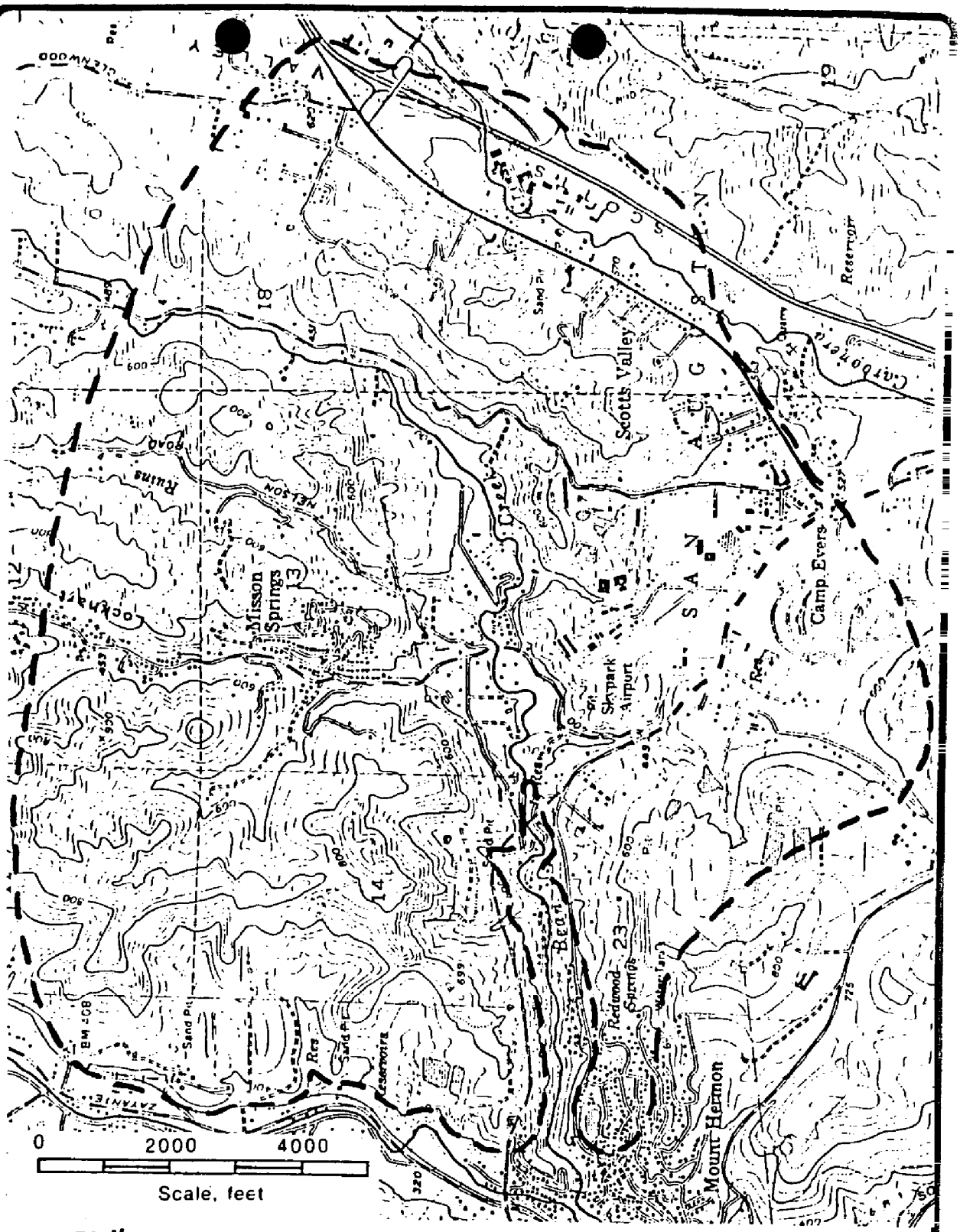
The VGGC site is adjacent to partially wooded areas and hills to the north, west, and south. The site is also in close proximity to residential areas.

## 3.2 Hydrogeology

The Scotts Valley community overlies the Scotts Valley Groundwater Basin. Located inland from the Santa Cruz coast, the basin encompasses approximately 12 square miles of rural, residential and commercial land. The Santa Margarita Sandstone is the primary water-bearing formation in the Scotts Valley area and was recently designated a sole source aquifer by EPA (Akers, 1969; Draft Support Document, August 1982). The approximate boundaries of the Santa Margarita Sandstone (hereafter called the "Santa Margarita aquifer" or the "aquifer") are shown in Figure 3.1.

Luhdorff and Scalmanini Consulting Engineers (April, 1984) described the Santa Margarita aquifer as an unconsolidated, thickly bedded yellowish-grey fine- to coarse-grained sandstone. Additionally, Groundwater Resources, Inc. has identified channel deposits of water-bearing conglomerate in the lower third of the aquifer (Luhdorff and Scalmanini, April 1984). The Santa Margarita aquifer exists under water table conditions and is recharged at outcrops of the Santa Margarita Sandstone by either direct precipitation or runoff. In general, this formation has a high recharge capacity and is therefore susceptible to contamination.

Depth to groundwater in Scotts Valley varies locally and fluctuates seasonally. The water levels are generally 20-140 feet below ground surface, with seasonal variances of 5-25 feet. Seasonally, the highest water levels are usually in March and April, while the lowest are normally in October. Locally, the water table in the Scotts Valley Drive area is highest in the northeastern part of the basin and downslopes toward the pumping depression at the El Pueblo well field, indicating a southward flow direction in that area. Groundwater




# FIGURE 3.1

**Approximate Boundary of the Saturated Santa Margarita Aquifer**

***after: Todd June 1985***

levels are lower to the west of the Scotts Valley Drive area, and assuming continuity of the aquifer between this area and Bean Creek, the water table gradient indicates westward groundwater flow from a portion of the Scotts Valley Drive area to Bean Creek. Water table elevations in the Camp Evers area are highest to the south and decline gradually to the north, indicating groundwater flow from recharge along the highlands to the south and west of Camp Evers to discharge areas along Bean Creek (Todd, 1985).

Groundwater flow from the VGGC site appears to move northeast toward the axis of a regional syncline that emerges at Bean Creek. Depth to groundwater is approximately 20 feet below the site (Environmental Impact Report for Disposal of Scotts Valley Sewage Effluent, Use Permit No. 4598-U, 3/5/73 and Scotts Valley Water Resources Management Plan, Phase II, David Keith Todd Consulting Engineers, Inc., June 1985).

Soils on-site are classified as Zayante coarse sand which consists of strongly acid and medium acid coarse sand to a depth of 30 inches, changing to medium acid and neutral coarse sand to a depth of 60 inches. Permeability ranges from 6.0 to 20 inches per hour (Soil Survey of Santa Cruz County, U.S. Department of Agriculture, August 1980).

Available information indicates there are 104 groundwater wells in the Scotts Valley area. Of these, 5 are abandoned, 3 are capped, and 4 are not in operation. Apparent uses of the remaining 92 are as follows: 31 are domestic, 14 are industrial, 11 are municipal, 23 are test wells, and 13 are unknown (Scotts Valley Water Resources Management Plan, Phase II, David Keith Todd Consulting Engineers, Inc., Berkeley, California, June 1985).

There are a total of 3,300 service connections from groundwater supply wells in Scotts Valley of which 2,086 are accounted for by the Scotts Valley Water District, 442 are accounted for by the San Lorenzo Valley Water District, and 772 are accounted for by private wells and springs. An average of 3.8 persons per service connection implies that a population of 12,540 uses groundwater from Scotts Valley as a drinking water supply (Hazardous Waste Site Ranking System User's Manual, 8/82, Telephone conversation between Steve Wisbaum-FIT and

Daryl Ellis of the Scotts Valley Water District, 7/5/85; Telephone conversation between Steve Wisbaum-FIT and Al Haynes of the San Lorenzo Valley Water District, 7/5/85; and the North Central Santa Cruz County Water Supply Master Plan--Groundwater Resources--Scotts Valley Area, Luhdorff and Scalmanini Engineers, 4/84).

The closest known contaminated groundwater well to the VGGC site is the Skypark Airport monitoring well #2 which lies approximately 2,000 feet to the east. Levels of contamination detected to date are as follows: 0.6 parts per billion (ppb) and 0.82 ppb of trichloroethane (TCA), 8.8 ppb and 23.5 ppb of trichloroethylene (TCE), and 0.29 ppb tetrachloroethylene (PCE) (Stoner Laboratories, 397 Mathew Street, Santa Clara, California, 6/10/85). California Department of Health Services (DOHS) action levels for TCA, TCE, and PCE are 200.000 ppb, 5.00 ppb, and 4.00 ppb, respectively.

Within a 0.5 mile radius of the VGGC site there are also at least five other contaminated groundwater wells. These include Skypark Airport Monitoring Well #1, the Watkins Johnson monitoring well, the Scotts Valley Water District Well #9, and Champion and Estrella wells of the San Lorenzo Valley Water District (see Santa Margarita/Scotts Valley Contamination Study, TDD #R-09-8505-11).

## 3.3 Surface Water

Carbonera Creek lies about one mile east of the site. Its present and/or anticipated future uses include: municipal and domestic drinking water supply, wildlife habitat, agricultural supply, industrial service supply, cold freshwater habitat, and non-contact water recreation (Telephone conservation between Steve Wisbaum-FIT and Vern Jones-RWQCB, 7/6/85).

Bean Creek lies about 0.75 mile to the north of the site. Its present and/or anticipated future uses include: municipal and domestic drinking water supply, agricultural supply, industrial service supply, wildlife habitat, cold freshwater habitat, fish migration and spawning, contact and non-contact water recreation, and groundwater recharge (Telephone conversation between Steve Wisbaum-FIT and Vern Jones-RWQCB, 7/6/85).

Bean Creek is a tributary to the San Lorenzo River which is used as a drinking water supply for over 40,000 people through the Santa Cruz Municipal Water System. Carbonera Creek is also a tributary to the San Lorenzo River but it empties into the river downstream from the City's intake (Telephone conversation between Steve Wisbaum-FIT and Gene Watson of the Santa Cruz Municipal Utility System, 7/5/85).

Bean Creek was sampled for volatile organics as part of the Watkins Johnson remedial investigation in February of 1985 but no contamination was found (Sequoia Analytical Laboratory, 2549 Middlefield Road, Redwood City, California 94063, 2/22/85). The San Lorenzo River has not been sampled for volatile organics (letter from the City of Santa Cruz Water Department to FIT, 7/25/85) and it is not known whether Carbonera Creek has been sampled.

## 4.0 SUMMARY OF FIT INSPECTION EFFORTS

The inspection of VGGC was conducted on July 8, 1985 by FIT members Chris Lichens and Steve Wisbaum.

The inspection was initiated with a meeting with Bob Geyer of the Scotts Valley Sanitation District to discuss the historical development of the site, ownership, waste management, process descriptions, etc. Following the meeting FIT inspected the VGGC site (see Appendix C for Photographic Documentation). All pertinent information given to FIT during this inspection is included in previous sections of this report and on the site inspection form (see Appendix B).

## 5.0 FIT CONCLUSIONS AND RECOMMENDATIONS

Secondary treated wastewater from the City of Scotts Valley Waste Treatment Plant was disposed of at VGGC from 1967 to 1983. This wastewater was monitored for various inorganic and biological contaminants but not for organic contaminants or cyanide. In 1985 several volatile organic chemicals and cyanide were detected in trace amounts in Treatment Plant effluent. Total quantities of effluent discharged to VGGC are unknown.

Preliminary review of existing industrial facilities (electronics firms, automobile repair shops, machine shops, etc.) indicates that several facilities that used various chemical compounds being found in Scotts Valley groundwater were connected to the Scotts Valley Sanitary Sewer System during the period of discharge to VGGC. However, it is impossible to know at this point if these or other toxic substances were discharged into the sewer by these facilities. In addition, little is known about the nature of sanitary wastewater discharge from other unidentified small businesses, industrial facilities, and residences that were connected to the Scotts Valley Sanitary Sewage System during that period.

Because of the uncertainty associated with determining the chemical nature of effluent discharged to VGGC, FIT can neither discount nor confirm the likelihood of on-site contamination. Hence, it is difficult to assess the potential contribution of discharged effluent to existing groundwater contamination in Scotts Valley. Therefore, FIT recommends that this site be given special consideration in future groundwater sampling plans and remedial investigations developed as part of the Santa Margarita/Scotts Valley Contamination Study (TDD #R-09-8505-11).

# APPENDIX A

## Contact Log and Reports

## P.A./S.I. CONTACT LOG

**Facility Name:** Valley Gardens Golf Course
**Facility ID:** R-09-8506-22

| Name | Affiliation | Phone # | Date | Information |
|---|---|---|---|---|
| File Search | EPA CERCLIS File | | 05/29/85 | CERCLIS File showed no listing. |
| File Search | Department of Health Services | (415) 540-2043 | 06/19/85 | File not found. |
| File Search | Central Coast RWQCB | (805) 549-3147 | 06/26/85 | File not found. |
| File Search | Santa Cruz County Environmental Health | (408) 425-2341 | 06/25/85 | See Contact Report. |
| Bob Geyer | Scotts Valley Sanitation District | (408) 438-0732 | 08/13/85 | Mr. Geyer informed FIT that sanitary effluent was initially discharged to Kaiser Pit in 1972. He also stated that sanitary effluent was discharged to the Skypark Airport Leachfield from 1967 to the summer of 1973, and that the Leachfield was owned by Holmes Lumber Yard while effluent was being discharged there. Since 1979 a Mr. Graham has owned one parcel at the Leachfield and sold it to Harmony Foods in August of 1985. The other parcel is owned by K-Mart who bought it approximately 6 months ago. |

## P.A./S.I. CONTACT LOG (Cont.)

**Facility Name:** Valley Gardens Golf Course
**Facility ID:** R-09-8506-22

| Name | Affiliation | Phone # | Date | Information |
|---|---|---|---|---|
| Bob Geyer | Scotts Valley Sanitation District | (408) 438-0732 | 08/14/85 | Mr. Geyer informed FIT that the NPDES number for all four sanitation district sites is CA0048828. He is stated that coagulation and duel media filtration constitutes the third phase of tertiary wastewater treatment. Finally, Mr. Geyer confirmed usage dates for the Valley Gardens Golf Course and Scotts Valley Intermediate School sites and ownership for Valley Gardens. |

# CONTACT REPORT

AGENCY: Santa Cruz Environmental Health

ADDRESS: 701 Ocean Street, Fourth Floor, Santa Cruz, CA 95060

PERSON CONTACTED: Raynor Talley, Director

PHONE NO.: (408) 425-2341

FROM: Steve Wisbaum

TO: CERCLIS File

DATE: June 25, 1985

SUBJECT: File search conducted for City of Scotts Valley Sanitation District Sites:

Sky Park Airport Leachfield
Kaiser Pit
Valley Gardens Golf Course
Scotts Valley Intermediate School

Information on these sites were found in the following files:

File # 32.7: Scotts Valley
File # 32.2 - 15B: Scotts Valley Wastewater Users

# APPENDIX B

## Site Inspection Report Form

# POTENTIAL HAZARDOUS WASTE SITE
## SITE INSPECTION REPORT
## PART 1 - SITE LOCATION AND INSPECTION INFORMATION

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |
| CA | CAD 069127470 |

### II. SITE NAME AND LOCATION

| 01 Site Name (Legal, common, or descriptive name of site) | 02 Street, Route No., or Specific Location Identifier | | | | |
|---|---|---|---|---|---|
| Valley Gardens Golf Course | 236 Mt. Herman Road | | | | |
| **03 City** | **04 State** | **05 Zip Code** | **06 County** | **07 County Code** | **08 Cong Dist** |
| Scotts Valley | CA | 95066 | Santa Cruz | | |

**09 Coordinates** — Latitude: 37 03 06.0 | Longitude: 122 00 54.0

**10 Type of Ownership (Check one)**
☐ A. Private ☐ B. Federal _____ ☐ C. State ☐ D. County ☒ E. Municipal
☐ F. Other _____ ☐ G. Unknown

### III. INSPECTION INFORMATION

| 01 Date of Inspection | 02 Site Status | 03 Years of Operation | | |
|---|---|---|---|---|
| 07 /08 /85 (Month Day Year) | ☐ Active ☒ Inactive | 1967 (Beginning Year) | 1983 (Ending Year) | ☐ Unknown |

**04 Agency Performing Inspection (Check all that apply)**
☐ A. EPA ☐ B. EPA Contractor Ecology & Environment, Inc (Name of firm) ☐ C. Municipal ☐ D. Municipal Contractor _____ (Name of firm)
☐ E. State ☐ F. State Contractor _____ (Name of firm) ☐ G. Other _____ (Specify)

| 05 Chief Inspector | 06 Title | 07 Organization | 08 Telephone No. |
|---|---|---|---|
| Steve Wisbaum | FIT Leader | E & E, Inc. | (415)777-2811 |
| **09 Other Inspectors** | **10 Title** | **11 Organization** | **12 Telephone No.** |
| Chris Lichens | FIT Member | E & E, Inc. | (415)777-2811 |
| | | | ( ) |
| | | | ( ) |

| 13 Site Representatives Interviewed | 14 Title | 15 Address | 16 Telephone No. |
|---|---|---|---|
| Bob Geyer | Superintendant | 700 Lundy Lane | (408)438-0732 |
| | | | ( ) |
| | | | ( ) |
| | | | ( ) |
| | | | ( ) |

| 17 Access Gained By (Check one) | 18 Time of Inspection | 19 Weather Conditions |
|---|---|---|
| ☒ Permission ☐ Warrant | | Fair |

### IV. INFORMATION AVAILABLE FROM

| 01 Contact | 02 Of (Agency/Organization) | 03 Telephone No. |
|---|---|---|
| Bob Geyer | Scotts Valley Sanitation District | (408)438-0732 |

| 04 Person Responsible for Site Inspection Form | 05 Agency | 06 Organization | 07 Telephone No. | 08 Date |
|---|---|---|---|---|
| Chris Lichens | | E & E, Inc. | (415)777-2811 | 08 /08 / 85 (Month Day Year) |

# POTENTIAL HAZARDOUS WASTE SITE
# SITE INSPECTION REPORT
## PART 2 - WASTE INFORMATION

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |
| | |

## II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

**01 Physical States (Check all that apply)**

- [ ] A. Solid
- [ ] B. Powder, Fines
- [ ] C. Sludge
- [ ] D. Other _____ (Specify)
- [ ] E. Slurry
- [X] F. Liquid
- [ ] G. Gas

**02 Waste Quantity at Site (Measure of waste quantities must be independent)**

Tons _____

Cubic Yards _____

No. of Drums _____

**03 Waste Characteristics (Check all that apply)**

- [ ] A. Toxic
- [ ] B. Corrosive
- [ ] C. Radioactive
- [ ] D. Persistent
- [ ] E. Soluble
- [ ] F. Infectious
- [ ] G. Flammable
- [ ] H. Ignitable
- [ ] I. Highly Volatile
- [ ] J. Explosive
- [ ] K. Reactive
- [ ] L. Incompatible
- [X] M. Not Applicable

## III. WASTE TYPE

| Category | Substance Name | 01 Gross Amount | 02 Unit of Measure | 03 Comments |
|---|---|---|---|---|
| SLU | Sludge | | | |
| OLW | Oily Waste | | | |
| SOL | Solvents | | | |
| PSD | Pesticides | | | |
| OCC | Other Organic Chemicals | Unknown | | Wastewater was suspected to be contaminated with organics but this was not confirmed. |
| IOC | Inorganic Chemicals | | | |
| ACD | Acids | | | |
| BAS | Bases | | | |
| MES | Heavy Metals | | | |

## IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

| 01 Category | 02 Substance Name | 03 CAS Number | 04 Storage/Disposal Method | 05 Concentration | 06 Measure of Concentration |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
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| | | | | | |

## V. FEEDSTOCKS (See Appendix for CAS Numbers)

| Category | 01 Feedstock Name | 02 CAS Number | Category | 01 Feedstock Name | 02 CAS Number |
|---|---|---|---|---|---|
| FDS | | | FDS | | |
| FDS | | | FDS | | |
| FDS | | | FDS | | |
| FDS | | | FDS | | |

## VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |
| | |

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. Groundwater Contamination
02 [ ] Observed (Date: _____) [X] Potential [ ] Alleged
03 Population Potentially Affected: 12,540
04 Narrative Description

Between the years of 1967 and 1983 sanitary wastewater which was potentially contaminated with organic chemicals was disposed of at the Valley Gardens Golf Course and recharged to the water table. Volume of wastewater discharged is unknown.

01 [ ] B. Surface Water Contamination
02 [ ] Observed (Date: _____) [ ] Potential [ ] Alleged
03 Population Potentially Affected: _____
04 Narrative Description

None Documented

01 [ ] C. Contamination of Air
02 [ ] Observed (Date: _____) [ ] Potential [ ] Alleged
03 Population Potentially Affected: _____
04 Narrative Description

None Documented

01 [ ] D. Fire/Explosive Conditions
02 [ ] Observed (Date: _____) [ ] Potential [ ] Alleged
03 Population Potentially Affected: _____
04 Narrative Description

None Documented

01 [ ] E. Direct Contact
02 [ ] Observed (Date: _____) [ ] Potential [ ] Alleged
03 Population Potentially Affected: _____
04 Narrative Description

None Documented

01 [ ] F. Contamination of Soil
02 [ ] Observed (Date: _____) [ ] Potential [ ] Alleged
03 Area Potentially Affected: _____
04 Narrative Description

None Documented

01 [X] G. Drinking Water Contamination
02 [ ] Observed (Date: _____) [X] Potential [ ] Alleged
03 Population Potentially Affected: 12,540
04 Narrative Description

01 [ ] H. Worker Exposure/Injury
02 [ ] Observed (Date: _____) [ ] Potential [ ] Alleged
03 Workers Potentially Affected: _____
04 Narrative Description

None Documented

01 [ ] I. Population Exposure/Injury
02 [ ] Observed (Date: _____) [ ] Potential [ ] Alleged
03 Population Potentially Affected: _____
04 Narrative Description

None Documented

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |
| | |

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. Damage to Flora — 02 ☐ Observed (Date: _____) ☐ Potential ☐ Alleged
04 Narrative Description

None Documented

01 ☐ K. Damage to Fauna — 02 ☐ Observed (Date: _____) ☐ Potential ☐ Alleged
04 Narrative Description

None Documented

01 ☐ L. Contamination of Food Chain — 02 ☐ Observed (Date: _____) ☐ Potential ☐ Alleged
04 Narrative Description

None Documented

01 ☐ M. Unstable Containment of Wastes (Spills/Runoff/Standing liquids, Leaking drums) — 02 ☐ Observed (Date: _____) ☐ Potential ☐ Alleged
03 Population Potentially Affected: _____ 04 Narrative Description

None Documented

01 ☐ N. Damage to Offsite Property — 02 ☐ Observed (Date: _____) ☐ Potential ☐ Alleged
04 Narrative Description

None Documented

01 ☐ O. Contamination of Sewers, Storm/Drains, WWTPs — 02 ☐ Observed (Date: _____) ☐ Potential ☐ Alleged
04 Narrative Description

None Documented

01 ☐ P. Illegal/Unauthorized Dumping — 02 ☐ Observed (Date: _____) ☐ Potential ☐ Alleged
04 Narrative Description

None Documented

05 Description of Any Other Known, Potential, or Alleged Hazards

None Documented

III. TOTAL POPULATION POTENTIALLY AFFECTED: 12,540

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

# POTENTIAL HAZARDOUS WASTE SITE
# SITE INSPECTION REPORT
## PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |
| | |

## II. PERMIT INFORMATION

| 01 Type of Permit Issued (Check all that apply) | 02 Permit Number | 03 Date Issued | 04 Expiration Date | 05 Comments |
|---|---|---|---|---|
| [X] A. NPDES | CA 0048828 | | | |
| [ ] B. UIC | | | | |
| [ ] C. AIR | | | | |
| [ ] D. RCRA | | | | |
| [ ] E. RCRA INTERIM STATUS | | | | |
| [ ] F. SPCC PLAN | | | | |
| [ ] G. STATE (Specify) | | | | |
| [ ] H. Local (Specify) | | | | |
| [ ] I. Other (Specify) | | | | |
| [ ] J. None | | | | |

## III. SITE DESCRIPTION

| 01 Storage/Disposal (Check all that apply) | 02 Amount | 03 Unit of Measure |
|---|---|---|
| [ ] A. Surface Impoundment | | |
| [ ] B. Piles | | |
| [ ] C. Drums, Above Ground | | |
| [ ] D. Tank, Above Ground | | |
| [ ] E. Tank, Below Ground | | |
| [ ] F. Landfill | | |
| [ ] G. Landfarm | | |
| [ ] H. Open Dump | | |
| [X] I. Other (Specify) Holding pond, irrigation | Unknown | |

04 Treatment (Check all that apply)

- [ ] A. Incineration
- [ ] B. Underground Injection
- [ ] C. Chemical/Physical
- [ ] D. Biological
- [ ] E. Waste Oil Processing
- [ ] F. Solvent Recovery
- [ ] G. Other Recycling/Recovery
- [ ] H. Other (Specify) Activated sludge with extended aeration, chlorination

05 Other

- [ ] A. Buildings On Site

06 Area of Site

0.5 Acres

07 Comments

## IV. CONTAINMENT

01 Containment of Wastes (Check one)

[ ] A. Adequate, Secure [ ] B. Moderate [ ] C. Inadequate, Poor [ ] D. Insecure, Unsound, Dangerous

None

02 Description of Drums, Diking, Liners, Barriers, etc.

None

## V. ACCESSIBILITY

01 Waste Easily Accessible: [X] Yes [ ] No

02 Comments

## VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Scotts Valley Sanitation District

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 State | 02 Site Number

II. DRINKING WATER SUPPLY

01 Type of Drinking Supply (Check as applicable)

| | SURFACE | WELL |
|---|---|---|
| Community | A. ☐ | B. ☒ |
| Non-Community | C. ☐ | D. ☐ |

02 Status

| | ENDANGERED | AFFECTED | MONITORED |
|---|---|---|---|
| | A. ☐ | B. ☐ | C. ☒ |
| | D. ☐ | E. ☐ | F. ☐ |

03 Distance to Site
A. _____ (mi)
B. _____ (mi)

III. GROUNDWATER

01 Groundwater Use in Vicinity (Check one)

☒ A. Only Source for Drinking
☐ B. Drinking (Other sources available) Commercial, Industrial, Irrigation (No other water sources available)
☐ C. Commercial, Industrial, Irrigation (Limited other sources available)
☐ D. Not Used, Unuseable

02 Population Served by Ground Water 12,540
03 Distance to Nearest Drinking Water Well 0.5 (mi)

| 04 Depth to Groundwater | 05 Direction of Groundwater Flow | 06 Depth to Aquifer of Concern | 07 Potential Yield of Aquifer | 08 Sole Source Aquifer |
|---|---|---|---|---|
| _____ (ft) | _____ | _____ (ft) | _____ (gpd) | ☐ Yes ☐ No |

09 Description of Wells (Including useage, depth, and location relative to population and buildings)

Newest well is used by the Scotts Valley Water district as a municipal supply.
It is in close proximity to residential areas.

| 10 Recharge Area | | 11 Discharge Area | |
|---|---|---|---|
| ☒ Yes | Comments | ☐ Yes | Comments |
| ☐ No | | ☒ No | |

IV. SURFACE WATER

01 Surface Water (Check one)

☒ A. Reservior, Recreation Drinking Water Source
☐ B. Irrigation, Economically Important Resources
☐ C. Commercial, Industrial
☐ D. Not Currently Used

02 Affected/Potentially Affected Bodies of Water

| Name: | Affected | Distance to Site |
|---|---|---|
| Bean Creek | ☐ | 0.75 (mi) |
| | ☐ | (mi) |
| | ☐ | (mi) |

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 Total Population Within

One (1) Mile of Site A. _____ No. of Persons
Two (2) Miles of Site B. _____ No. of Persons
Three (3) Miles of Site C. _____ No. of Persons

02 Distance to Nearest Population
0.2 (mi)

03 Number of Buildings Within Two (2) Miles of Site
_____

04 Distance to Nearest Off-Site Building
_____ (mi)

05 Population Within Vicinity of Site (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |
| | |

## VI. ENVIRONMENTAL INFORMATION

01 Permeability of Unsaturated Zone (Check one)

☐ A. $10^{-6}$ - $10^{-8}$ cm/sec ☐ B. $10^{-4}$ - $10^{-6}$ cm/sec ☐ C. $10^{-4}$ - $10^{-3}$ cm/sec ☒ D. Greater Than $10^{-3}$ cm/sec

02 Permeability of Bedrock (Check one)

☐ A. Impermeable (Less than $10^{-6}$ cm/sec) ☐ B. Relatively Impermeable ($10^{-4}$ - $10^{-6}$ cm/sec) ☐ C. Relatively Permeable ($10^{-2}$ - $10^{-4}$ cm/sec) ☐ D. Very Permeable (Greater Than $10^{-2}$ cm/sec)

| 03 Depth to Bedrock | 04 Depth of Contaminated Soil Zone | 05 Soil pH |
|---|---|---|
| _____ (ft) | _____ (ft) | _____ |

| 06 Net Precipitation | 07 One Year 24 Hour Rainfall | 08 Slope: Site Slope | Direction of Site Slope | Terrain Average Slope |
|---|---|---|---|---|
| 1.0 (ft) | 3.0 (in) | 5-30 % | | _____ % |

09 Flood Potential

Site is in _____ Year Floodplan

10

☐ Site is on Barrier Island, Coastal High Hazard Area, Riverine Floodway

11 Distance to Wetlands (5 acre minimum)

ESTUARINE: A. NA (mi) OTHER: B. NA (mi)

12 Distance to Critical Habitat (of endangered species)

NA (mi)

Endangered Species: None

13 Land Use in Vicinity

Distance to:

| COMMERCIAL/INDUSTRIAL | RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES | AGRICULTURAL LANDS: PRIME AG LAND | AG LAND |
|---|---|---|---|
| A. 2 (mi) | B. 1/5 (mi) | C. NA (mi) | D. NA (mi) |

14 Description of Site in Relation to Surrounding Topography

The site is adjacent to partially wooded areas and steeper hills to the north, west, and south.

## VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

USDA Soil Survey

# POTENTIAL HAZARDOUS WASTE SITE
# SITE INSPECTION REPORT
## PART 6 - SAMPLE AND FIELD INFORMATION

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |
| | |

### II. SAMPLES TAKEN

| Sample Type | 01 Number of Samples Taken | 02 Samples Sent To | 03 Estimated Date Results Available |
|---|---|---|---|
| Groundwater | | | |
| Surface Water | | | |
| Waste | | | |
| Air | | | |
| Runoff | | | |
| Spill | | | |
| Soil | | | |
| Vegetation | | | |
| Other | | | |

### III. FIELD MEASUREMENTS TAKEN

| 01 Type | 02 Comments |
|---|---|
| | |
| | |
| | |
| | |

### IV. PHOTOGRAPHS AND MAPS

01 Type [X] Ground [ ] Aerial

02 In Custody of E & E, Inc.
(Name of organization or individual)

03 Maps
[X] Yes
[ ] No

04 Location of Maps
E & E, Inc., San Francisco

### V. OTHER FIELD DATA COLLECTED (provide narrative description)

None

### VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Scotts Valley Sanitation District

# POTENTIAL HAZARDOUS WASTE SITE
# SITE INSPECTION REPORT
## PART 7 - OWNER INFORMATION

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |
| | |

**II. CURRENT OWNER(S)**

| 01 Name | 02 D+B Number | 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | 05 City | 06 State | 07 Zip Code |
|---|---|---|---|---|---|---|
| Steve Barath | | 236 Mount Herman Road | | Scotts Valley | CA | 95066 |

**PARENT COMPANY (If applicable)**

| 08 Name | 09 D+B Number | 10 Street Address (P.O. Box, RFD #, etc.) | 11 SIC Code | 12 City | 13 State | 14 Zip Code |
|---|---|---|---|---|---|---|
| | | | | | | |

| 01 Name | 02 D+B Number | 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | 05 City | 06 State | 07 Zip Code |
|---|---|---|---|---|---|---|
| | | | | | | |

| 08 Name | 09 D+B Number | 10 Street Address (P.O. Box, RFD #, etc.) | 11 SIC Code | 12 City | 13 State | 14 Zip Code |
|---|---|---|---|---|---|---|
| | | | | | | |

| 01 Name | 02 D+B Number | 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | 05 City | 06 State | 07 Zip Code |
|---|---|---|---|---|---|---|
| | | | | | | |

| 08 Name | 09 D+B Number | 10 Street Address (P.O. Box, RFD #, etc.) | 11 SIC Code | 12 City | 13 State | 14 Zip Code |
|---|---|---|---|---|---|---|
| | | | | | | |

**III. PREVIOUS OWNER(S) (List most recent first)**

| 01 Name | 02 D+B Number | 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | 05 City | 06 State | 07 Zip Code |
|---|---|---|---|---|---|---|
| | | | | | | |

**IV. REALTY OWNER(S) (If applicable, list most recent first)**

| 01 Name | 02 D+B Number | 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | 05 City | 06 State | 07 Zip Code |
|---|---|---|---|---|---|---|
| | | | | | | |

| 01 Name | 02 D+B Number | 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | 05 City | 06 State | 07 Zip Code |
|---|---|---|---|---|---|---|
| | | | | | | |

| 01 Name | 02 D+B Number | 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | 05 City | 06 State | 07 Zip Code |
|---|---|---|---|---|---|---|
| | | | | | | |

| 01 Name | 02 D+B Number | 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | 05 City | 06 State | 07 Zip Code |
|---|---|---|---|---|---|---|
| | | | | | | |

**V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)**

Bob Geyer, Scotts Valley Sanitation District

# POTENTIAL HAZARDOUS WASTE SITE
# SITE INSPECTION REPORT
## PART B - OPERATOR INFORMATION

I. IDENTIFICATION
01 State | 02 Site Number

**II. CURRENT OPERATOR (Provide if different from owner)**

| 01 Name | 02 D+B Number |
|---|---|
| 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code |
| 05 City | 06 State / 07 Zip Code |
| 08 Years of Operation | 09 Name of Owner |

**OPERATOR'S PARENT COMPANY (If applicable)**

| 10 Name | 11 D+B Number |
|---|---|
| 12 Street Address (P.O. Box, RFD #, etc.) | 13 SIC Code |
| 14 City | 15 State / 16 Zip Code |

**III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)**

| 01 Name | 02 D+B Number |
|---|---|
| 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code |
| 05 City | 06 State / 07 Zip Code |
| 08 Years of Operation | 09 Name of Owner During This Period |

**PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)**

| 10 Name | 11 D+B Number |
|---|---|
| 12 Street Address (P.O. Box, RFD #, etc.) | 13 SIC Code |
| 14 City | 15 State / 16 Zip Code |

| 01 Name | 02 D+B Number |
|---|---|
| 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code |
| 05 City | 06 State / 07 Zip Code |
| 08 Years of Operation | 09 Name of Owner During This Period |

| 10 Name | 11 D+B Number |
|---|---|
| 12 Street Address (P.O. Box, RFD #, etc.) | 13 SIC Code |
| 14 City | 15 State / 16 Zip Code |

| 01 Name | 02 D+B Number |
|---|---|
| 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code |
| 05 City | 06 State / 07 Zip Code |
| 08 Years of Operation | 09 Name of Owner During This Period |

| 10 Name | 11 D+B Number |
|---|---|
| 12 Street Address (P.O. Box, RFD #, etc.) | 13 SIC Code |
| 14 City | 15 State / 16 Zip Code |

**IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)**

# POTENTIAL HAZARDOUS WASTE SITE
# SITE INSPECTION REPORT
## PART 9 - GENERATOR/TRANSPORTER INFORMATION

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |
| | |

### II. ON-SITE GENERATOR

| 01 Name | 02 D+B Number | |
|---|---|---|
| None | | |
| 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | |
| | | |
| 05 City | 06 State | 07 Zip Code |
| | | |

### III. OFF-SITE GENERATOR

| 01 Name | 02 D+B Number | 01 Name | 02 D+B Number |
|---|---|---|---|
| Scotts Valley Sanitation District | | | |
| 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code |
| 700 Lundy Lane | | | |
| 05 City | 06 State / 07 Zip Code | 05 City | 06 State / 07 Zip Code |
| Scotts Valley | CA 95066 | | |

| 01 Name | 02 D+B Number | 01 Name | 02 D+B Number |
|---|---|---|---|
| | | | |
| 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code |
| | | | |
| 05 City | 06 State / 07 Zip Code | 05 City | 06 State / 07 Zip Code |
| | | | |

### IV. TRANSPORTER(S)

| 01 Name | 02 D+B Number | 01 Name | 02 D+B Number |
|---|---|---|---|
| | | | |
| 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code |
| | | | |
| 05 City | 06 State / 07 Zip Code | 05 City | 06 State / 07 Zip Code |
| | | | |

| 01 Name | 02 D+B Number | 01 Name | 02 D+B Number |
|---|---|---|---|
| | | | |
| 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code |
| | | | |
| 05 City | 06 State / 07 Zip Code | 05 City | 06 State / 07 Zip Code |
| | | | |

### V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |
| | |

II. PAST RESPONSE ACTIVITIES

01 ☐ A. Water Supply Closed — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ B. Temporary Water Supply Provided — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ C. Permanent Water Supply Provided — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ D. Spilled Material Removed — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ E. Contaminated Soil Removed — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ F. Waste Repackaged — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ G. Waste Disposed Elsewhere — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ H. On Site Burial — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ I. In Situ Chemical Treatment — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ J. In Situ Biological Treatment — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ K. In Situ Physical Treatment — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ L. Encapsulation — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ M. Emergency Waste Treatment — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ N. Cutoff Walls — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ O. Emergency Diking/Surface Water Diversion — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ P. Cutoff Trenches/Sump — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ Q. Subsurface Cutoff Wall — 02 Date _____ — 03 Agency _____
04 Description NA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |
| | |

II. PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. Barrier Walls Constructed — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ S. Capping/Covering — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ T. Bulk Tankage Repaired — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ U. Grout Curtain Constructed — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ V. Bottom Sealed — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ W. Gas Control — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ X. Fire Control — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ Y. Leachate Treatment — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ Z. Area Evacuated — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ 1. Access to Site Restricted — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ 2. Population Relocated — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ 3. Other Remedial Activities — 02 Date _____ — 03 Agency _____
04 Description
NA

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |
| | |

II. ENFORCEMENT INFORMATION

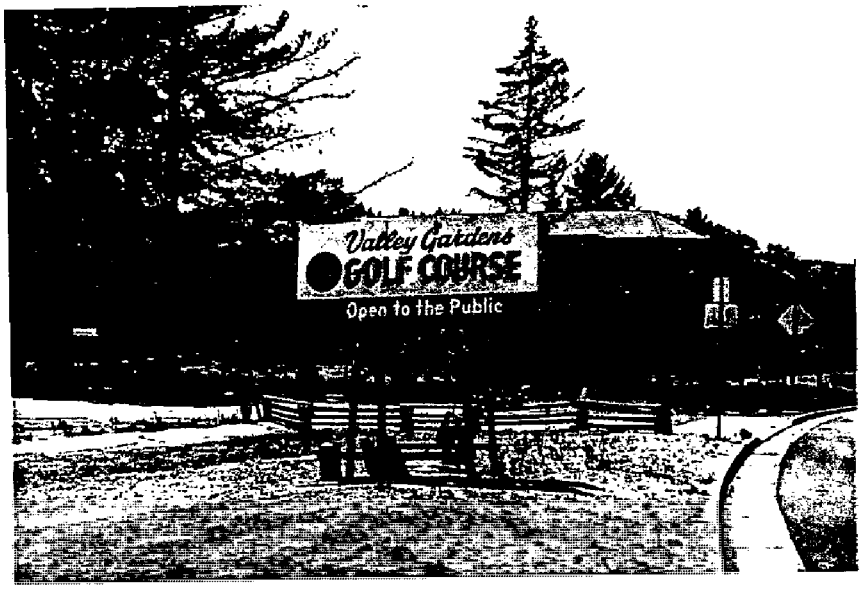
01 Past Regulatory/Enforcement Action ☐ Yes ☒ No

02 Description of Federal, State, Local Regulatory/Enforcement Action

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

# APPENDIX C

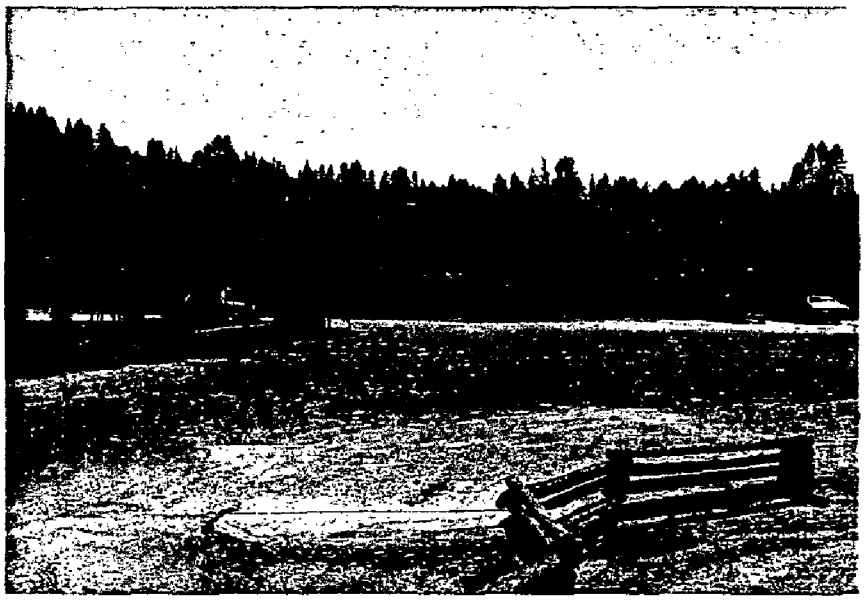
## FIT Photographic Documentation




1. Entrance to site facing north



2. View of site facing west



3. View of site facing southwest

APPENDIX D

City of Scotts Valley
Sanitation District Wastewater Analyses

**SEQUOIA** Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

City of Scotts Valley
370 Kings Valley Road
Scotts Valley, CA 95066
Attn: Paul Rieth

Date Sampled: 05/20/85
Date Received: 05/20/85
Date Reported: 06/07/85

| Sample Number | Sample Description |
|---|---|
| 505675 | Plant Effluent Grab |

## ANALYSIS

| | |
|---|---|
| Cyanide, mg/L | 2.0 |
| Trichloroethene, ppb | < 1 |
| 1,1,1-Trichloroethane, ppb | < 1 |
| Tetrachloroethene, ppb | 1.2 |
| Carbon tetrachloride, ppb | < 1 |

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

slp

JUN 10 1985

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

City of Scotts Valley
370 Kings Valley Road
Scotts Valley, CA 95066
Attn: Paul Rieth

Date Sampled: 03/04/85
Date Received: 03/04/85
Date Reported: 03/25/85

| Sample Number | Sample Description |
|---|---|
| 503052 | Effluent Grab |

## VOLATILE ORGANIC COMPOUNDS
results in ppb

| | |
|---|---|
| Acrolein | <100 |
| Acrylonitrile | <100 |
| Benzene | < 1 |
| Bromomethane | < 1 |
| Bromodichloromethane | < 1 |
| Bromoform | < 1 |
| Carbon Tetrachloride | < 1 |
| Chlorobenzene | < 1 |
| Chloroethane | < 1 |
| 2-Chloroethylvinyl ether | < 1 |
| Chloroform | 4.7 |
| Chloromethane | < 1 |
| Dibromochloromethane | < 1 |
| 1,1-Dichloroethane | < 1 |
| 1,2-Dichloroethane | < 1 |
| 1,1-Dichloroethene | < 1 |
| trans-1,2-Dichloroethane | < 1 |
| 1,2-Dichloropropane | < 1 |
| cis-1,3-Dichloropropene | < 1 |
| trans-1,3-Dichloropropene | < 1 |
| Ethylbenzene | < 1 |
| Methylene chloride | < 1 |
| 1,1,2,2-Tetrachloroethane | < 1 |
| Tetrachloroethene (PCE) | 2.4 |
| 1,1,1-Trichloroethane | < 1 |
| 1,1,2-Trichloroethane | < 1 |
| Trichloroethene | < 1 |
| Trichlorofluoromethane | < 1 |
| Toluene | < 1 |
| Vinyl chloride | < 1 |

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

City of Scotts Valley
370 Kings Valley Road
Scotts Valley, CA 95066
Attn: Paul Rieth

Date Sampled: 03/04/85
Date Received: 03/04/85
Date Extracted: -
Date Reported: 03/25/85

Sample Number

503044

Sample Description
24 Hr. Composite
Effluent

## BASE/NEUTRAL EXTRACT ORGANICS
results in ppb

| | | | |
|---|---|---|---|
| Acenaphthene | < 1 | Diethylphthalate | < 1 |
| Acenaphthylene | < 1 | Dimethylphthalate | < 1 |
| Anthracene | < 1 | Dioctylphthalate | < 1 |
| Benzo (a) anthracene | < 1 | Di-n-butylphthalate | 1. |
| Benzo (b) fluoranthene | < 1 | Isophorone | 5. |
| Benzo (k) fluoranthene | < 1 | Benzidine | <10 |
| Benzo (a) pyrene | < 1 | 2,4-Dinitrotoluene | < 1 |
| Benzo (g,h,i) perylene | < 1 | 2,6-Dinitrotoluene | < 1 |
| Chrysene | < 1 | 1,2-Diphenylhdrazine | < 1 |
| Dibenzo (a,h) anthracene | < 1 | Nitrobenzene | < 1 |
| Fluoranthane | < 1 | N-Nitrosodimethylamine | < 1 |
| Fluorene | < 1 | N-Nitrosodi-n-propylamine | < 1 |
| Indeno (1,2,3-cd) pyrene | < 1 | N-Nitrosodiphenylamine | < 1 |
| Naphthalene | < 1 | 2-Chloronaphthalene | < 1 |
| Phenanthrene | < 1 | 1,3-Dichlorobenzene | < 1 |
| Pyrene | < 1 | 1,4-Dichrlorbenzene | 2. |
| Bis (2-chloroethyl) ether | < 1 | 1,2-Dichlrorbenzene | 7. |
| Bis (2-chloroethoxy) methane | < 1 | 3,3-Dichlorobenzidine | <10 |
| Bis (2-ethylhexyl) phthalate | < 1 | Hexachlorobenzene | < 1 |
| Bis (2-chloroisopropyl) ether | < 1 | Hexachlorobutadiene | < 1 |
| 4-Bromophenyl phenyl ether | < 1 | Hexachloroethane | < 1 |
| Butyl benzyl phthalate | < 1 | Hexachlorocyclopentadiene | < 1 |
| 4-Chlorophenyl phenyl ether | < 1 | 2,3,7,8-Tetrachlorodibenzo-p-dioxin | < 1 |
| | | 1,2,4-Trichlorobenzene | < 1 |

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

City of Scotts Valley
370 Kings Valley Road
Scotts Valley, CA 95066
Attn: Paul Rieth

Date Sampled: 03/04/85
Date Received: 03/04/85
Date Extracted: -
Date Reported: 03/25/85

Sample Number
503044

Sample Description
24 Hr. Composite
Effluent

ACID EXTRACT ORGANICS
results in ppb

| | |
|---|---|
| 4-Chloro-3-methylphenol | < 1 |
| 2-Chlorophenol | < 1 |
| 2,4-Dichlorophenol | < 1 |
| 2,4-Dimethylphenol | < 1 |
| 2,4-Dinitrophenol | < 5 |
| 2-Methyl-4,6-dinitrophenol | < 5 |
| 2-Nitrophenol | < 1 |
| 4-Nitrophenol | <10 |
| Pentachlorophenol | 16 |
| Phenol | < 1 |
| 2,4,6-Trichlorophenol | < 1 |

SEQUOIA ANALYTICAL LABORATORY

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Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

City of Scotts Valley
370 Kings Valley Road
Scotts Valley, CA 95066
Attn: Paul Rieth

Date Sampled: 03/04/85
Date Received: 03/04/85
Date Extracted: -
Date Reported: 03/25/85

| Sample Number | Sample Description |
|---|---|
| 503044 - | 24 Hr. Composite Effluent |

PESTICIDE AND PCB COMPOUNDS
results in ppb

| | |
|---|---|
| Aldrin | < 1 |
| α-BHC | < 1 |
| β-BHC | < 1 |
| δ-BHC | < 1 |
| γ-BHC | < 1 |
| Chlordane | < 1 |
| 4,4-DDD | < 1 |
| 4,4-DDE | < 1 |
| 4,4-DDT | < 1 |
| Dieldrin | < 1 |
| Endosulfan 1 | < 1 |
| Endosulfan 11 | < 1 |
| Endosulfan Sulfate | < 1 |
| Endrin | < 1 |
| Endrin Aldehyde | < 1 |
| Heptachlor | < 1 |
| Heptachlor Epoxide | < 1 |
| Toxaphene | < 1 |
| PCB-1016 | < 1 |
| PCB-1221 | < 1 |
| PCB-1232 | < 1 |
| PCB-1242 | < 1 |
| PCB-1248 | < 1 |
| PCB-1254 | < 1 |
| PCB-1260 | < 1 |

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

City of Scotts Valley
370 Kings Valley Road
Scotts Valley, CA 95066
Attn: Paul Rieth

Date Sampled: 03/04/85
Date Received: 03/04/85
Date Extracted: -
Date Reported: 03/25/85

| Sample Number | Sample Description |
|---|---|
| 503052 | Effluent Grab |

PESTICIDE AND PCB COMPOUNDS
results in ppb

| | |
|---|---|
| Aldrin | < 1 |
| α-BHC | < 1 |
| β-BHC | < 1 |
| δ-BHC | < 1 |
| Y-BHC | < 1 |
| Chlordane | < 1 |
| 4,4-DDD | < 1 |
| 4,4-DDE | < 1 |
| 4,4-DDT | < 1 |
| Dieldrin | < 1 |
| Endosulfan 1 | < 1 |
| Endosulfan 11 | < 1 |
| Endosulfan Sulfate | < 1 |
| Endrin | < 1 |
| Endrin Aldehyde | < 1 |
| Heptachlor | < 1 |
| Heptachlor Epoxide | < 1 |
| Toxaphene | < 1 |
| PCB-1016 | < 1 |
| PCB-1221 | < 1 |
| PCB-1232 | < 1 |
| PCB-1242 | < 1 |
| PCB-1248 | < 1 |
| PCB-1254 | < 1 |
| PCB-1260 | < 1 |

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

City of Scotts Valley
370 Kings Valley Road
Scotts Valley, CA 95066
Attn: Paul Rieth

Date Sampled: 03/04/85
Date Received: 03/04/85
Date Extracted: -
Date Reported: 03/25/85

| Sample Number | Sample Description |
|---|---|
| 503051 | Influent Grab |

PESTICIDE AND PCB COMPOUNDS
results in ppb

| | |
|---|---|
| Aldrin | < 1 |
| α-BHC | < 1 |
| β-BHC | < 1 |
| δ-BHC | < 1 |
| γ-BHC | < 1 |
| Chlordane | < 1 |
| 4,4-DDD | < 1 |
| 4,4-DDE | < 1 |
| 4,4-DDT | < 1 |
| Dieldrin | < 1 |
| Endosulfan 1 | < 1 |
| Endosulfan 11 | < 1 |
| Endosulfan Sulfate | < 1 |
| Endrin | < 1 |
| Endrin Aldehyde | < 1 |
| Heptachlor | < 1 |
| Heptachlor Epoxide | < 1 |
| Toxaphene | < 1 |
| PCB-1016 | < 1 |
| PCB-1221 | < 1 |
| PCB-1232 | < 1 |
| PCB-1242 | < 1 |
| PCB-1248 | < 1 |
| PCB-1254 | < 1 |
| PCB-1260 | < 1 |

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

RECEIVED

MAR 28 1985

CITY OF SCOTTS VALLEY

City of Scotts Valley
370 Kings Valley Road
Scotts Valley, CA 95066
Attn: Paul Rieth

Date Sampled: 03/04/85
Date Received: 03/04/85
Date Reported: 03/25/85

| Sample Number | Sample Description |
|---|---|
| 503044 | 24 Hr. Composite Effluent |

## VOLATILE ORGANIC COMPOUNDS
results in ppb

| | |
|---|---|
| Acrolein | <100 |
| Acrylonitrile | <100 |
| Benzene | < 1 |
| Bromomethane | < 1 |
| Bromodichloromethane | < 1 |
| Bromoform | < 1 |
| Carbon Tetrachloride | < 1 |
| Chlorobenzene | < 1 |
| Chloroethane | < 1 |
| 2-Chloroethylvinyl ether | < 1 |
| Chloroform | 18 |
| Chloromethane | < 1 |
| Dibromochloromethane | < 1 |
| 1,1-Dichloroethane | < 1 |
| 1,2-Dichloroethane | < 1 |
| 1,1-Dichloroethene | < 1 |
| trans-1,2-Dichloroethane | < 1 |
| 1,2-Dichloropropane | < 1 |
| cis-1,3-Dichloropropene | < 1 |
| trans-1,3-Dichloropropene | < 1 |
| Ethylbenzene | < 1 |
| Methylene chloride | < 1 |
| 1,1,2,2-Tetrachloroethane | < 1 |
| Tetrachloroethene | < 1 |
| 1,1,1-Trichloroethane | < 1 |
| 1,1,2-Trichloroethane | < 1 |
| Trichloroethene | < 1 |
| Trichlorofluoromethane | < 1 |
| Toluene | < 1 |
| Vinyl chloride | < 1 |

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

RECEIVED
MAR 28 1985
CITY OF SCOTTS VALLEY

City of Scotts Valley
370 Kings Valley Road
Scotts Valley, CA 95066
Attn: Paul Rieth

Date Sampled: 03/04/85
Date Received: 03/04/85
Date Reported: 03/25/85

| Sample Number | Sample Description |
|---|---|
| 503051 | Influent Grab |

VOLATILE ORGANIC COMPOUNDS
results in ppb

| | |
|---|---|
| Acrolein | <100 |
| Acrylonitrile | <100 |
| Benzene | < 1 |
| Bromomethane | < 1 |
| Bromodichloromethane | < 1 |
| Bromoform | < 1 |
| Carbon Tetrachloride | < 1 |
| Chlorobenzene | < 1 |
| Chloroethane | < 1 |
| 2-Chloroethylvinyl ether | < 1 |
| Chloroform | 5.7 |
| Chloromethane | < 1 |
| Dibromochloromethane | < 1 |
| 1,1-Dichloroethane | < 1 |
| 1,2-Dichloroethane | < 1 |
| 1,1-Dichloroethene | < 1 |
| trans-1,2-Dichloroethane | < 1 |
| 1,2-Dichloropropane | < 1 |
| cis-1,3-Dichloropropene | < 1 |
| trans-1,3-Dichloropropene | < 1 |
| Ethylbenzene | < 1 |
| Methylene chloride | < 1 |
| 1,1,2,2-Tetrachloroethane | < 1 |
| Tetrachloroethene | < 1 |
| 1,1,1-Trichloroethane | < 1 |
| 1,1,2-Trichloroethane | < 1 |
| Trichloroethene | < 1 |
| Trichlorofluoromethane | < 1 |
| Toluene | < 1 |
| Vinyl chloride | < 1 |

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

**ecology and environment, inc.**
120 HOWARD STREET, SUITE #640, SAN FRANCISCO, CALIFORNIA 94105, TEL. 415-777-2811
International Specialists in the Environment

102-2 File

Purpose: CERCLA Site Inspection

Site: Valley Gardens Golf Course
236 Mount Herman Road
Scotts Valley, CA 95066

Site ERRIS ID Number: CAD069127470

Inspection ID Number: C(85)C326

TDD Number: R-09-8506-22

FIT Investigator(s): Chris Lichens, Chemical Engineer
Steve Wisbaum, Hazardous Waste Specialist

Date of Inspection: 7/8/85

Report Prepared By: Chris Lichens

Report Date: 9/17/85

recycled paper

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# 1.0 INTRODUCTION

The Santa Cruz Board of Supervisors has requested assistance from the Environmental Protection Agency (EPA) in determining the source(s) of toxic contamination entering the federally designated "sole source" Santa Margarita aquifer. Ecology and Environment, Inc. (E & E) in its role as subcontractor to EPA has initiated the PA/SI phase of the investigation. The Preliminary Assessment, which consisted of a complete file search and interviews with state/local regulatory agencies, concluded that a site inspection was necessary to evaluate potential environmental hazards associated with effluent discharged to Valley Gardens Golf Course (VGGC). This effluent was from the Scotts Valley Treatment Plant, whose influent was composed of wastewater from various industrial and residential sources.

The purpose of this report is to summarize FIT's inspection activities, describe local environmental conditions, and to recommend future activities, if any, with respect to characterization and source verification of contaminants entering the Santa Margarita aquifer.

# 2.0 SITE HISTORY AND DESCRIPTION

## 2.1 Site History

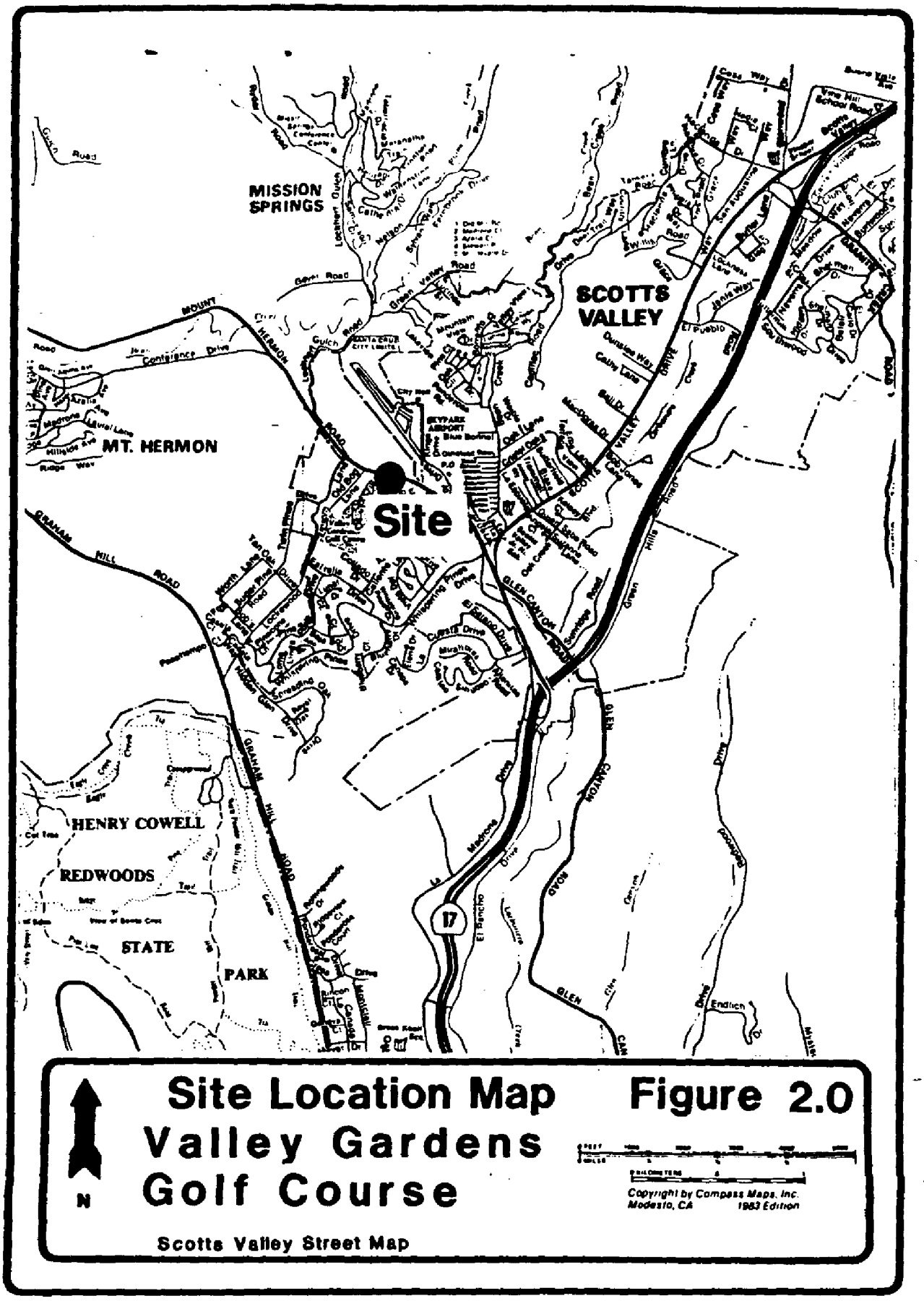
VGGC is located at 236 Mount Herman Road in Scotts Valley, California (see Site Location Map, Figure 2.0). From 1967 to 1983 treated wastewater was sold by the Scotts Valley Treatment Plant to VGGC for discharge into water hazard ponds. This wastewater was subsequently pumped from the water hazard ponds and used for irrigation of fairways and greens. Of various electronic firms, automobile repair shops, machine shops, and other industrial facilities investigated to date, several were connected to the sanitary sewer system while wastewater was discharged to VGGC. Although various volatile organic contaminants and cyanide were detected in sanitary sewage influent and effluent from the City of Scotts Valley in 1985 (see Appendix D for sample results), wastewater that was discharged to VGGC was never monitored for organic contaminants or cyanide. In June of 1972 the Central Coast RWQCB issued Order No. 72-44 regulating the "quality" of effluent disposed at VGGC in relation to total dissolved solid and nitrate concentration. Wastewater has not been disposed of at VGGC since 1983.

## 2.2 Process Description

All wastewater that was discharged at VGGC underwent secondary treatment consisting of an activated sludge process including extended aeration and chlorination (Bob Geyer, Scotts Valley Sanitation District, 8/14/85). Concentrations of the following constituents were monitored: total dissolved solids, sodium, chloride, sulfate, coliform organisms, five-day 20°C biochemical oxygen demand, and dissolved oxygen concentration (Central Coast RWQCB Memo, 9/8/72).

## 2.3 Waste Management Practices

From 1967 until 1973 the City of Scotts Valley Treatment Plant discharged treated wastewater to the VGGC (during the dry season) and to the Skypark Airport Leachfield which was a subsurface percolation


MISSION SPRINGS
SCOTTS VALLEY
MT. HERMON
Site
HENRY COWELL
REDWOODS
STATE
PARK
GRAHAM HILL ROAD
GLEN CANYON ROAD
17
N
Site Location Map
Valley Gardens
Golf Course
Figure 2.0
Copyright by Compass Maps, Inc.
Modesto, CA 1983 Edition
Scotts Valley Street Map

field adjacent to the Skypark Airport. Beginning in 1972 wastewater was discharged to a sand quarry on the Kaiser Sand and Gravel Company property and in 1975 to the playing field at Scotts Valley Intermediate School. Although complete discharge records are not available, the following quantities of waste effluent were discharged to the VGGC water hazard ponds:

May through September, 1980: 16,661,000.00 gallons
June through August, 1981: 13,609,000.00 gallons
October, 1981: 1,842,000.00 gallons
May through July, 1982: 6,266,790.00 gallons
September through October, 1982: 3,300,000.00 gallons
July through September, 1983: 1,750,960.00 gallons

(City of Scotts Valley Wastewater Effluent Usage Records)

# 3.0 ENVIRONMENTAL SETTING

## 3.1 Surrounding Area

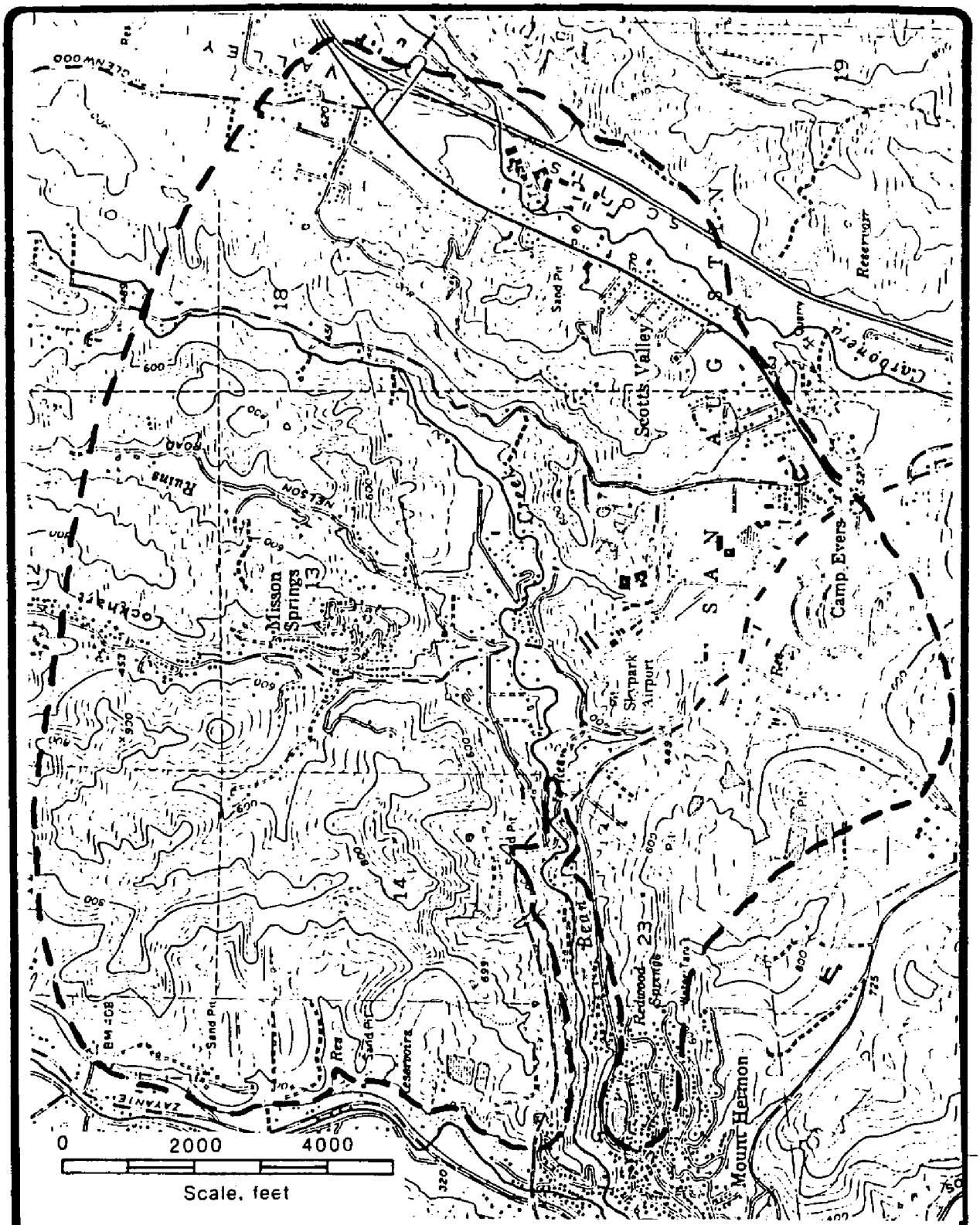
The VGGC site is adjacent to partially wooded areas and hills to the north, west, and south. The site is also in close proximity to residential areas.

## 3.2 Hydrogeology

The Scotts Valley community overlies the Scotts Valley Groundwater Basin. Located inland from the Santa Cruz coast, the basin encompasses approximately 12 square miles of rural, residential and commercial land. The Santa Margarita Sandstone is the primary water-bearing formation in the Scotts Valley area and was recently designated a sole source aquifer by EPA (Akers, 1969; Draft Support Document, August 1982). The approximate boundaries of the Santa Margarita Sandstone (hereafter called the "Santa Margarita aquifer" or the "aquifer") are shown in Figure 3.1.

Luhdorff and Scalmanini Consulting Engineers (April, 1984) described the Santa Margarita aquifer as an unconsolidated, thickly bedded yellowish-grey fine- to coarse-grained sandstone. Additionally, Groundwater Resources, Inc. has identified channel deposits of water-bearing conglomerate in the lower third of the aquifer (Luhdorff and Scalmanini, April 1984). The Santa Margarita aquifer exists under water table conditions and is recharged at outcrops of the Santa Margarita Sandstone by either direct precipitation or runoff. In general, this formation has a high recharge capacity and is therefore susceptible to contamination.

Depth to groundwater in Scotts Valley varies locally and fluctuates seasonally. The water levels are generally 20-140 feet below ground surface, with seasonal variances of 5-25 feet. Seasonally, the highest water levels are usually in March and April, while the lowest are normally in October. Locally, the water table in the Scotts Valley Drive area is highest in the northeastern part of the basin and downslopes toward the pumping depression at the El Pueblo well field, indicating a southward flow direction in that area. Groundwater




# FIGURE 3.1

**Approximate Boundary of the Saturated Santa Margarita Aquifer**

***after: Todd June 1985***

levels are lower to the west of the Scotts Valley Drive area, and assuming continuity of the aquifer between this area and Bean Creek, the water table gradient indicates westward groundwater flow from a portion of the Scotts Valley Drive area to Bean Creek. Water table elevations in the Camp Evers area are highest to the south and decline gradually to the north, indicating groundwater flow from recharge along the highlands to the south and west of Camp Evers to discharge areas along Bean Creek (Todd, 1985).

Groundwater flow from the VGGC site appears to move northeast toward the axis of a regional syncline that emerges at Bean Creek. Depth to groundwater is approximately 20 feet below the site (Environmental Impact Report for Disposal of Scotts Valley Sewage Effluent, Use Permit No. 4598-U, 3/5/73 and Scotts Valley Water Resources Management Plan, Phase II, David Keith Todd Consulting Engineers, Inc., June 1985).

Soils on-site are classified as Zayante coarse sand which consists of strongly acid and medium acid coarse sand to a depth of 30 inches, changing to medium acid and neutral coarse sand to a depth of 60 inches. Permeability ranges from 6.0 to 20 inches per hour (Soil Survey of Santa Cruz County, U.S. Department of Agriculture, August 1980).

Available information indicates there are 104 groundwater wells in the Scotts Valley area. Of these, 5 are abandoned, 3 are capped, and 4 are not in operation. Apparent uses of the remaining 92 are as follows: 31 are domestic, 14 are industrial, 11 are municipal, 23 are test wells, and 13 are unknown (Scotts Valley Water Resources Management Plan, Phase II, David Keith Todd Consulting Engineers, Inc., Berkeley, California, June 1985).

There are a total of 3,300 service connections from groundwater supply wells in Scotts Valley of which 2,086 are accounted for by the Scotts Valley Water District, 442 are accounted for by the San Lorenzo Valley Water District, and 772 are accounted for by private wells and springs. An average of 3.8 persons per service connection implies that a population of 12,540 uses groundwater from Scotts Valley as a drinking water supply (Hazardous Waste Site Ranking System User's Manual, 8/82, Telephone conversation between Steve Wisbaum-FIT and

Daryl Ellis of the Scotts Valley Water District, 7/5/85; Telephone conversation between Steve Wisbaum-FIT and Al Haynes of the San Lorenzo Valley Water District, 7/5/85; and the North Central Santa Cruz County Water Supply Master Plan--Groundwater Resources--Scotts Valley Area, Luhdorff and Scalmanini Engineers, 4/84).

The closest known contaminated groundwater well to the VGGC site is the Skypark Airport monitoring well #2 which lies approximately 2,000 feet to the east. Levels of contamination detected to date are as follows: 0.6 parts per billion (ppb) and 0.82 ppb of trichloroethane (TCA), 8.8 ppb and 23.5 ppb of trichloroethylene (TCE), and 0.29 ppb tetrachloroethylene (PCE) (Stoner Laboratories, 397 Mathew Street, Santa Clara, California, 6/10/85). California Department of Health Services (DOHS) action levels for TCA, TCE, and PCE are 200.000 ppb, 5.00 ppb, and 4.00 ppb, respectively.

Within a 0.5 mile radius of the VGGC site there are also at least five other contaminated groundwater wells. These include Skypark Airport Monitoring Well #1, the Watkins Johnson monitoring well, the Scotts Valley Water District Well #9, and Champion and Estrella wells of the San Lorenzo Valley Water District (see Santa Margarita/Scotts Valley Contamination Study, TDD #R-09-8505-11).

## 3.3 Surface Water

Carbonera Creek lies about one mile east of the site. Its present and/or anticipated future uses include: municipal and domestic drinking water supply, wildlife habitat, agricultural supply, industrial service supply, cold freshwater habitat, and non-contact water recreation (Telephone conservation between Steve Wisbaum-FIT and Vern Jones-RWQCB, 7/6/85).

Bean Creek lies about 0.75 mile to the north of the site. Its present and/or anticipated future uses include: municipal and domestic drinking water supply, agricultural supply, industrial service supply, wildlife habitat, cold freshwater habitat, fish migration and spawning, contact and non-contact water recreation, and groundwater recharge (Telephone conversation between Steve Wisbaum-FIT and Vern Jones-RWQCB, 7/6/85).

Bean Creek is a tributary to the San Lorenzo River which is used as a drinking water supply for over 40,000 people through the Santa Cruz Municipal Water System. Carbonera Creek is also a tributary to the San Lorenzo River but it empties into the river downstream from the City's intake (Telephone conversation between Steve Wisbaum-FIT and Gene Watson of the Santa Cruz Municipal Utility System, 7/5/85).

Bean Creek was sampled for volatile organics as part of the Watkins Johnson remedial investigation in February of 1985 but no contamination was found (Sequoia Analytical Laboratory, 2549 Middlefield Road, Redwood City, California 94063, 2/22/85). The San Lorenzo River has not been sampled for volatile organics (letter from the City of Santa Cruz Water Department to FIT, 7/25/85) and it is not known whether Carbonera Creek has been sampled.

## 4.0 SUMMARY OF FIT INSPECTION EFFORTS

The inspection of VGGC was conducted on July 8, 1985 by FIT members Chris Lichens and Steve Wisbaum.

The inspection was initiated with a meeting with Bob Geyer of the Scotts Valley Sanitation District to discuss the historical development of the site, ownership, waste management, process descriptions, etc. Following the meeting FIT inspected the VGGC site (see Appendix C for Photographic Documentation). All pertinent information given to FIT during this inspection is included in previous sections of this report and on the site inspection form (see Appendix B).

## 5.0 FIT CONCLUSIONS AND RECOMMENDATIONS

Secondary treated wastewater from the City of Scotts Valley Waste Treatment Plant was disposed of at VGGC from 1967 to 1983. This wastewater was monitored for various inorganic and biological contaminants but not for organic contaminants or cyanide. In 1985 several volatile organic chemicals and cyanide were detected in trace amounts in Treatment Plant effluent. Total quantities of effluent discharged to VGGC are unknown.

Preliminary review of existing industrial facilities (electronics firms, automobile repair shops, machine shops, etc.) indicates that several facilities that used various chemical compounds being found in Scotts Valley groundwater were connected to the Scotts Valley Sanitary Sewer System during the period of discharge to VGGC. However, it is impossible to know at this point if these or other toxic substances were discharged into the sewer by these facilities. In addition, little is known about the nature of sanitary wastewater discharge from other unidentified small businesses, industrial facilities, and residences that were connected to the Scotts Valley Sanitary Sewage System during that period.

Because of the uncertainty associated with determining the chemical nature of effluent discharged to VGGC, FIT can neither discount nor confirm the likelihood of on-site contamination. Hence, it is difficult to assess the potential contribution of discharged effluent to existing groundwater contamination in Scotts Valley. Therefore, FIT recommends that this site be given special consideration in future groundwater sampling plans and remedial investigations developed as part of the Santa Margarita/Scotts Valley Contamination Study (TDD #R-09-8505-11).

# APPENDIX A

## Contact Log and Reports

## P.A./S.I. CONTACT LOG

**Facility Name:** Valley Gardens Golf Course
**Facility ID:** R-09-8506-22

| Name | Affiliation | Phone # | Date | Information |
|---|---|---|---|---|
| File Search | EPA CERCLIS File | | 05/29/85 | CERCLIS File showed no listing. |
| File Search | Department of Health Services | (415) 540-2043 | 06/19/85 | File not found. |
| File Search | Central Coast RWQCB | (805) 549-3147 | 06/26/85 | File not found. |
| File Search | Santa Cruz County Environmental Health | (408) 425-2341 | 06/25/85 | See Contact Report. |
| Bob Geyer | Scotts Valley Sanitation District | (408) 438-0732 | 08/13/85 | Mr. Geyer informed FIT that sanitary effluent was initially discharged to Kaiser Pit in 1972. He also stated that sanitary effluent was discharged to the Skypark Airport Leachfield from 1967 to the summer of 1973, and that the Leachfield was owned by Holmes Lumber Yard while effluent was being discharged there. Since 1979 a Mr. Graham has owned one parcel at the Leachfield and sold it to Harmony Foods in August of 1985. The other parcel is owned by K-Mart who bought it approximately 6 months ago. |

## P.A./S.I. CONTACT LOG (Cont.)

**Facility Name:** Valley Gardens Golf Course
**Facility ID:** R-09-8506-22

| Name | Affiliation | Phone # | Date | Information |
|---|---|---|---|---|
| Bob Geyer | Scotts Valley Sanitation District | (408) 438-0732 | 08/14/85 | Mr. Geyer informed FIT that the NPDES number for all four sanitation district sites is CA0048828. He is stated that coagulation and duel media filtration constitutes the third phase of tertiary wastewater treatment. Finally, Mr. Geyer confirmed usage dates for the Valley Gardens Golf Course and Scotts Valley Intermediate School sites and ownership for Valley Gardens. |

# CONTACT REPORT

AGENCY: Santa Cruz Environmental Health

ADDRESS: 701 Ocean Street, Fourth Floor, Santa Cruz, CA 95060

PERSON CONTACTED: Raynor Talley, Director

PHONE NO.: (408) 425-2341

FROM: Steve Wisbaum

TO: CERCLIS File

DATE: June 25, 1985

SUBJECT: File search conducted for City of Scotts Valley Sanitation District Sites:

Sky Park Airport Leachfield
Kaiser Pit
Valley Gardens Golf Course
Scotts Valley Intermediate School

Information on these sites were found in the following files:

File # 32.7: Scotts Valley
File # 32.2 - 15B: Scotts Valley Wastewater Users

# APPENDIX B

## Site Inspection Report Form

# POTENTIAL HAZARDOUS WASTE SITE
## SITE INSPECTION REPORT
## PART 1 - SITE LOCATION AND INSPECTION INFORMATION

| I. IDENTIFICATION | |
|---|---|
| 01 State: CA | 02 Site Number: CAD 069127470 |

### II. SITE NAME AND LOCATION

| 01 Site Name (Legal, common, or descriptive name of site) | 02 Street, Route No., or Specific Location Identifier | | | | |
|---|---|---|---|---|---|
| Valley Gardens Golf Course | 236 Mt. Herman Road | | | | |
| **03 City** | **04 State** | **05 Zip Code** | **06 County** | **07 County Code** | **08 Cong Dist** |
| Scotts Valley | CA | 95066 | Santa Cruz | | |

| 09 Coordinates Latitude | Longitude | 10 Type of Ownership (Check one) |
|---|---|---|
| 37 03 06.0 | 122 00 54.0 | ☐ A. Private ☐ B. Federal _____ ☐ C. State ☐ D. County ☒ E. Municipal ☐ F. Other _____ ☐ G. Unknown |

### III. INSPECTION INFORMATION

| 01 Date of Inspection | 02 Site Status | 03 Years of Operation |
|---|---|---|
| 07 /08 /85 (Month Day Year) | ☐ Active ☒ Inactive | 1967 (Beginning Year) 1983 (Ending Year) ____ Unknown |

04 Agency Performing Inspection (Check all that apply)
☐ A. EPA ☐ B. EPA Contractor Ecology & Environment, Inc (Name of firm) ☐ C. Municipal ☐ D. Municipal Contractor _____ (Name of firm)
☐ E. State ☐ F. State Contractor _____ (Name of firm) ☐ G. Other _____ (Specify)

| 05 Chief Inspector | 06 Title | 07 Organization | 08 Telephone No. |
|---|---|---|---|
| Steve Wisbaum | FIT Leader | E & E, Inc. | (415)777-2811 |
| **09 Other Inspectors** | **10 Title** | **11 Organization** | **12 Telephone No.** |
| Chris Lichens | FIT Member | E & E, Inc. | (415)777-2811 |
| | | | ( ) |
| | | | ( ) |

| 13 Site Representatives Interviewed | 14 Title | 15 Address | 16 Telephone No. |
|---|---|---|---|
| Bob Geyer | Superintendant | 700 Lundy Lane | (408)438-0732 |
| | | | ( ) |
| | | | ( ) |
| | | | ( ) |
| | | | ( ) |

| 17 Access Gained By (Check one) | 18 Time of Inspection | 19 Weather Conditions |
|---|---|---|
| ☒ Permission ☐ Warrant | | Fair |

### IV. INFORMATION AVAILABLE FROM

| 01 Contact | 02 Of (Agency/Organization) | 03 Telephone No. |
|---|---|---|
| Bob Geyer | Scotts Valley Sanitation District | (408)438-0732 |

| 04 Person Responsible for Site Inspection Form | 05 Agency | 06 Organization | 07 Telephone No. | 08 Date |
|---|---|---|---|---|
| Chris Lichens | | E & E, Inc. | (415)777-2811 | 08 /08 / 85 (Month Day Year) |

# POTENTIAL HAZARDOUS WASTE SITE
# SITE INSPECTION REPORT
## PART 2 - WASTE INFORMATION

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |
| | |

### II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

**01 Physical States (Check all that apply)**

- [ ] A. Solid
- [ ] B. Powder, Fines
- [ ] C. Sludge
- [ ] D. Other _____ (Specify)
- [ ] E. Slurry
- [X] F. Liquid
- [ ] G. Gas

**02 Waste Quantity at Site (Measure of waste quantities must be independent)**

Tons _____

Cubic Yards _____

No. of Drums _____

**03 Waste Characteristics (Check all that apply)**

- [ ] A. Toxic
- [ ] B. Corrosive
- [ ] C. Radioactive
- [ ] D. Persistent
- [ ] E. Soluble
- [ ] F. Infectious
- [ ] G. Flammable
- [ ] H. Ignitable
- [ ] I. Highly Volatile
- [ ] J. Explosive
- [ ] K. Reactive
- [ ] L. Incompatible
- [X] M. Not Applicable

### III. WASTE TYPE

| Category | Substance Name | 01 Gross Amount | 02 Unit of Measure | 03 Comments |
|---|---|---|---|---|
| SLU | Sludge | | | |
| OLW | Oily Waste | | | |
| SOL | Solvents | | | |
| PSD | Pesticides | | | |
| OCC | Other Organic Chemicals | Unknown | | Wastewater was suspected to be contaminated with organics but this was not confirmed. |
| IOC | Inorganic Chemicals | | | |
| ACD | Acids | | | |
| BAS | Bases | | | |
| MES | Heavy Metals | | | |

### IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

| 01 Category | 02 Substance Name | 03 CAS Number | 04 Storage/Disposal Method | 05 Concentration | 06 Measure of Concentration |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
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| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

### V. FEEDSTOCKS (See Appendix for CAS Numbers)

| Category | 01 Feedstock Name | 02 CAS Number | Category | 01 Feedstock Name | 02 CAS Number |
|---|---|---|---|---|---|
| FDS | | | FDS | | |
| FDS | | | FDS | | |
| FDS | | | FDS | | |
| FDS | | | FDS | | |

### VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |
| | |

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. Groundwater Contamination — 02 [ ] Observed (Date: _____) [X] Potential [ ] Alleged
03 Population Potentially Affected: 12,540 — 04 Narrative Description

Between the years of 1967 and 1983 sanitary wastewater which was potentially contaminated with organic chemicals was disposed of at the Valley Gardens Golf Course and recharged to the water table. Volume of wastewater discharged is unknown.

01 [ ] B. Surface Water Contamination — 02 [ ] Observed (Date: _____) [ ] Potential [ ] Alleged
03 Population Potentially Affected: _____ — 04 Narrative Description

None Documented

01 [ ] C. Contamination of Air — 02 [ ] Observed (Date: _____) [ ] Potential [ ] Alleged
03 Population Potentially Affected: _____ — 04 Narrative Description

None Documented

01 [ ] D. Fire/Explosive Conditions — 02 [ ] Observed (Date: _____) [ ] Potential [ ] Alleged
03 Population Potentially Affected: _____ — 04 Narrative Description

None Documented

01 [ ] E. Direct Contact — 02 [ ] Observed (Date: _____) [ ] Potential [ ] Alleged
03 Population Potentially Affected: _____ — 04 Narrative Description

None Documented

01 [ ] F. Contamination of Soil — 02 [ ] Observed (Date: _____) [ ] Potential [ ] Alleged
03 Area Potentially Affected: _____ — 04 Narrative Description

None Documented

01 [X] G. Drinking Water Contamination — 02 [ ] Observed (Date: _____) [X] Potential [ ] Alleged
03 Population Potentially Affected: 12,540 — 04 Narrative Description

01 [ ] H. Worker Exposure/Injury — 02 [ ] Observed (Date: _____) [ ] Potential [ ] Alleged
03 Workers Potentially Affected: _____ — 04 Narrative Description

None Documented

01 [ ] I. Population Exposure/Injury — 02 [ ] Observed (Date: _____) [ ] Potential [ ] Alleged
03 Population Potentially Affected: _____ — 04 Narrative Description

None Documented

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 State | 02 Site Number

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. Damage to Flora — 02 ☐ Observed (Date: _____) ☐ Potential ☐ Alleged
04 Narrative Description

None Documented

01 ☐ K. Damage to Fauna — 02 ☐ Observed (Date: _____) ☐ Potential ☐ Alleged
04 Narrative Description

None Documented

01 ☐ L. Contamination of Food Chain — 02 ☐ Observed (Date: _____) ☐ Potential ☐ Alleged
04 Narrative Description

None Documented

01 ☐ M. Unstable Containment of Wastes (Spills/Runoff/Standing liquids, Leaking drums) — 02 ☐ Observed (Date: _____) ☐ Potential ☐ Alleged
03 Population Potentially Affected: _____ 04 Narrative Description

None Documented

01 ☐ N. Damage to Offsite Property — 02 ☐ Observed (Date: _____) ☐ Potential ☐ Alleged
04 Narrative Description

None Documented

01 ☐ O. Contamination of Sewers, Storm/Drains, WWTPs — 02 ☐ Observed (Date: _____) ☐ Potential ☐ Alleged
04 Narrative Description

None Documented

01 ☐ P. Illegal/Unauthorized Dumping — 02 ☐ Observed (Date: _____) ☐ Potential ☐ Alleged
04 Narrative Description

None Documented

05 Description of Any Other Known, Potential, or Alleged Hazards

None Documented

III. TOTAL POPULATION POTENTIALLY AFFECTED: 12,540

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

# POTENTIAL HAZARDOUS WASTE SITE
## SITE INSPECTION REPORT
### PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |
| | |

## II. PERMIT INFORMATION

| 01 Type of Permit Issued (Check all that apply) | 02 Permit Number | 03 Date Issued | 04 Expiration Date | 05 Comments |
|---|---|---|---|---|
| [X] A. NPDES | CA 0048828 | | | |
| [ ] B. UIC | | | | |
| [ ] C. AIR | | | | |
| [ ] D. RCRA | | | | |
| [ ] E. RCRA INTERIM STATUS | | | | |
| [ ] F. SPCC PLAN | | | | |
| [ ] G. STATE (Specify) | | | | |
| [ ] H. Local (Specify) | | | | |
| [ ] I. Other (Specify) | | | | |
| [ ] J. None | | | | |

## III. SITE DESCRIPTION

| 01 Storage/Disposal (Check all that apply) | 02 Amount | 03 Unit of Measure |
|---|---|---|
| [ ] A. Surface Impoundment | | |
| [ ] B. Piles | | |
| [ ] C. Drums, Above Ground | | |
| [ ] D. Tank, Above Ground | | |
| [ ] E. Tank, Below Ground | | |
| [ ] F. Landfill | | |
| [ ] G. Landfarm | | |
| [ ] H. Open Dump | | |
| [X] I. Other (Specify) Holding pond, irrigation | Unknown | |

04 Treatment (Check all that apply)

- [ ] A. Incineration
- [ ] B. Underground Injection
- [ ] C. Chemical/Physical
- [ ] D. Biological
- [ ] E. Waste Oil Processing
- [ ] F. Solvent Recovery
- [ ] G. Other Recycling/ Recovery
- [ ] H. Other (Specify) Activated sludge with extended aeration, chlorination

05 Other

- [ ] A. Buildings On Site

06 Area of Site

0.5 Acres

07 Comments

## IV. CONTAINMENT

01 Containment of Wastes (Check one)

[ ] A. Adequate, Secure [ ] B. Moderate [ ] C. Inadequate, Poor [ ] D. Insecure, Unsound, Dangerous [ ] None

02 Description of Drums, Diking, Liners, Barriers, etc.

None

## V. ACCESSIBILITY

01 Waste Easily Accessible: [X] Yes [ ] No

02 Comments

## VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Scotts Valley Sanitation District

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

| 01 State | 02 Site Number |
|---|---|
| | |

II. DRINKING WATER SUPPLY

| 01 Type of Drinking Supply (Check as applicable) | SURFACE | WELL | 02 Status ENDANGERED | AFFECTED | MONITORED | 03 Distance to Site |
|---|---|---|---|---|---|---|
| Community | A. ☐ | B. ☒ | A. ☐ | B. ☐ | C. ☒ | A. _____ (mi) |
| Non-Community | C. ☐ | D. ☐ | D. ☐ | E. ☐ | F. ☐ | B. _____ (mi) |

III. GROUNDWATER

01 Groundwater Use in Vicinity (Check one)

☒ A. Only Source for Drinking ☐ B. Drinking (Other sources available) Commercial, Industrial, Irrigation (No other water sources available) ☐ C. Commercial, Industrial, Irrigation (Limited other sources available) ☐ D. Not Used, Unuseable

02 Population Served by Ground Water 12,540 | 03 Distance to Nearest Drinking Water Well 0.5 (mi)

| 04 Depth to Groundwater | 05 Direction of Groundwater Flow | 06 Depth to Aquifer of Concern | 07 Potential Yield of Aquifer | 08 Sole Source Aquifer |
|---|---|---|---|---|
| _____ (ft) | _____ | _____ (ft) | _____ (gpd) | ☐ Yes ☐ No |

09 Description of Wells (Including useage, depth, and location relative to population and buildings)

Newest well is used by the Scotts Valley Water district as a municipal supply.
It is in close proximity to residential areas.

| 10 Recharge Area | | 11 Discharge Area | |
|---|---|---|---|
| ☒ Yes | Comments | ☐ Yes | Comments |
| ☐ No | | ☒ No | |

IV. SURFACE WATER

01 Surface Water (Check one)

☒ A. Reservior, Recreation Drinking Water Source ☐ B. Irrigation, Economically Important Resources ☐ C. Commercial, Industrial ☐ D. Not Currently Used

02 Affected/Potentially Affected Bodies of Water

| Name: | Affected | Distance to Site |
|---|---|---|
| Bean Creek | ☐ | 0.75 (mi) |
| | ☐ | _____ (mi) |
| | ☐ | _____ (mi) |

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 Total Population Within

| One (1) Mile of Site | Two (2) Miles of Site | Three (3) Miles of Site |
|---|---|---|
| A. _____ No. of Persons | B. _____ No. of Persons | C. _____ No. of Persons |

02 Distance to Nearest Population 0.2 (mi)

03 Number of Buildings Within Two (2) Miles of Site _____

04 Distance to Nearest Off-Site Building _____ (mi)

05 Population Within Vicinity of Site (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 State | 02 Site Number

## VI. ENVIRONMENTAL INFORMATION

01 Permeability of Unsaturated Zone (Check one)

☐ A. $10^{-6}$ - $10^{-8}$ cm/sec ☐ B. $10^{-4}$ - $10^{-6}$ cm/sec ☐ C. $10^{-4}$ - $10^{-3}$ cm/sec ☒ D. Greater Than $10^{-3}$ cm/sec

02 Permeability of Bedrock (Check one)

☐ A. Impermeable (Less than $10^{-6}$ cm/sec) ☐ B. Relatively Impermeable ($10^{-4}$ - $10^{-6}$ cm/sec) ☐ C. Relatively Permeable ($10^{-2}$ - $10^{-4}$ cm/sec) ☐ D. Very Permeable (Greater Than $10^{-2}$ cm/sec)

| 03 Depth to Bedrock | 04 Depth of Contaminated Soil Zone | 05 Soil pH |
|---|---|---|
| _____ (ft) | _____ (ft) | _____ |

| 06 Net Precipitation | 07 One Year 24 Hour Rainfall | 08 Slope: Site Slope | Direction of Site Slope | Terrain Average Slope |
|---|---|---|---|---|
| 1.0 (ft) | 3.0 (in) | 5-30 % | | _____ % |

09 Flood Potential
Site is in _____ Year Floodplain

10
☐ Site is on Barrier Island, Coastal High Hazard Area, Riverine Floodway

11 Distance to Wetlands (5 acre minimum)
ESTUARINE: A. NA (mi) OTHER: B. NA (mi)

12 Distance to Critical Habitat (of endangered species)
NA (mi)
Endangered Species: None

13 Land Use in Vicinity

*Distance to:*

| COMMERCIAL/INDUSTRIAL | RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES | AGRICULTURAL LANDS: PRIME AG LAND | AG LAND |
|---|---|---|---|
| A. 2 (mi) | B. 1/5 (mi) | C. NA (mi) | D. NA (mi) |

14 Description of Site in Relation to Surrounding Topography

The site is adjacent to partially wooded areas and steeper hills to the north, west, and south.

## VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

USDA Soil Survey

# POTENTIAL HAZARDOUS WASTE SITE
# SITE INSPECTION REPORT
## PART 6 - SAMPLE AND FIELD INFORMATION

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |
| | |

### II. SAMPLES TAKEN

| Sample Type | 01 Number of Samples Taken | 02 Samples Sent To | 03 Estimated Date Results Available |
|---|---|---|---|
| Groundwater | | | |
| Surface Water | | | |
| Waste | | | |
| Air | | | |
| Runoff | | | |
| Spill | | | |
| Soil | | | |
| Vegetation | | | |
| Other | | | |

### III. FIELD MEASUREMENTS TAKEN

| 01 Type | 02 Comments |
|---|---|
| | |
| | |
| | |
| | |

### IV. PHOTOGRAPHS AND MAPS

01 Type [X] Ground [ ] Aerial

02 In Custody of E & E, Inc.
(Name of organization or individual)

03 Maps
[X] Yes
[ ] No

04 Location of Maps
E & E, Inc., San Francisco

### V. OTHER FIELD DATA COLLECTED (provide narrative description)

None

### VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Scotts Valley Sanitation District

# POTENTIAL HAZARDOUS WASTE SITE
# SITE INSPECTION REPORT
## PART 7 - OWNER INFORMATION

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |
| | |

**II. CURRENT OWNER(S)**

| 01 Name | 02 D+B Number | 04 SIC Code |
|---|---|---|
| Steve Barath | | |
| 03 Street Address (P.O. Box, RFD #, etc.) | | |
| 236 Mount Herman Road | | |
| 05 City | 06 State | 07 Zip Code |
| Scotts Valley | CA | 95066 |

**PARENT COMPANY (If applicable)**

| 08 Name | 09 D+B Number | 11 SIC Code |
|---|---|---|
| | | |
| 10 Street Address (P.O. Box, RFD #, etc.) | | |
| | | |
| 12 City | 13 State | 14 Zip Code |
| | | |

| 01 Name | 02 D+B Number | 04 SIC Code |
|---|---|---|
| | | |
| 03 Street Address (P.O. Box, RFD #, etc.) | | |
| | | |
| 05 City | 06 State | 07 Zip Code |
| | | |

| 08 Name | 09 D+B Number | 11 SIC Code |
|---|---|---|
| | | |
| 10 Street Address (P.O. Box, RFD #, etc.) | | |
| | | |
| 12 City | 13 State | 14 Zip Code |
| | | |

| 01 Name | 02 D+B Number | 04 SIC Code |
|---|---|---|
| | | |
| 03 Street Address (P.O. Box, RFD #, etc.) | | |
| | | |
| 05 City | 06 State | 07 Zip Code |
| | | |

| 08 Name | 09 D+B Number | 11 SIC Code |
|---|---|---|
| | | |
| 10 Street Address (P.O. Box, RFD #, etc.) | | |
| | | |
| 12 City | 13 State | 14 Zip Code |
| | | |

**III. PREVIOUS OWNER(S) (List most recent first)**

| 01 Name | 02 D+B Number | 04 SIC Code |
|---|---|---|
| | | |
| 03 Street Address (P.O. Box, RFD #, etc.) | | |
| | | |
| 05 City | 06 State | 07 Zip Code |
| | | |

**IV. REALTY OWNER(S) (If applicable, list most recent first)**

| 01 Name | 02 D+B Number | 04 SIC Code |
|---|---|---|
| | | |
| 03 Street Address (P.O. Box, RFD #, etc.) | | |
| | | |
| 05 City | 06 State | 07 Zip Code |
| | | |

| 01 Name | 02 D+B Number | 04 SIC Code |
|---|---|---|
| | | |
| 03 Street Address (P.O. Box, RFD #, etc.) | | |
| | | |
| 05 City | 06 State | 07 Zip Code |
| | | |

| 01 Name | 02 D+B Number | 04 SIC Code |
|---|---|---|
| | | |
| 03 Street Address (P.O. Box, RFD #, etc.) | | |
| | | |
| 05 City | 06 State | 07 Zip Code |
| | | |

| 01 Name | 02 D+B Number | 04 SIC Code |
|---|---|---|
| | | |
| 03 Street Address (P.O. Box, RFD #, etc.) | | |
| | | |
| 05 City | 06 State | 07 Zip Code |
| | | |

**V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)**

Bob Geyer, Scotts Valley Sanitation District

# POTENTIAL HAZARDOUS WASTE SITE
# SITE INSPECTION REPORT
## PART 8 - OPERATOR INFORMATION

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |

| II. CURRENT OPERATOR (Provide if different from owner) | | | | OPERATOR'S PARENT COMPANY (If applicable) | | | |
|---|---|---|---|---|---|---|---|
| 01 Name | | 02 D+B Number | | 10 Name | | 11 D+B Number | |
| 03 Street Address (P.O. Box, RFD #, etc.) | | 04 SIC Code | | 12 Street Address (P.O. Box, RFD #, etc.) | | 13 SIC Code | |
| 05 City | 06 State | 07 Zip Code | | 14 City | 15 State | 16 Zip Code | |
| 08 Years of Operation | 09 Name of Owner | | | | | | |

| III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner) | | | | PREVIOUS OPERATORS' PARENT COMPANIES (If applicable) | | | |
|---|---|---|---|---|---|---|---|
| 01 Name | | 02 D+B Number | | 10 Name | | 11 D+B Number | |
| 03 Street Address (P.O. Box, RFD #, etc.) | | 04 SIC Code | | 12 Street Address (P.O. Box, RFD #, etc.) | | 13 SIC Code | |
| 05 City | 06 State | 07 Zip Code | | 14 City | 15 State | 16 Zip Code | |
| 08 Years of Operation | 09 Name of Owner During This Period | | | | | | |
| 01 Name | | 02 D+B Number | | 10 Name | | 11 D+B Number | |
| 03 Street Address (P.O. Box, RFD #, etc.) | | 04 SIC Code | | 12 Street Address (P.O. Box, RFD #, etc.) | | 13 SIC Code | |
| 05 City | 06 State | 07 Zip Code | | 14 City | 15 State | 16 Zip Code | |
| 08 Years of Operation | 09 Name of Owner During This Period | | | | | | |
| 01 Name | | 02 D+B Number | | 10 Name | | 11 D+B Number | |
| 03 Street Address (P.O. Box, RFD #, etc.) | | 04 SIC Code | | 12 Street Address (P.O. Box, RFD #, etc.) | | 13 SIC Code | |
| 05 City | 06 State | 07 Zip Code | | 14 City | 15 State | 16 Zip Code | |
| 08 Years of Operation | 09 Name of Owner During This Period | | | | | | |

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

# POTENTIAL HAZARDOUS WASTE SITE
## SITE INSPECTION REPORT
### PART 9 - GENERATOR/TRANSPORTER INFORMATION

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |
| | |

**II. ON-SITE GENERATOR**

| 01 Name | 02 D+B Number | |
|---|---|---|
| None | | |
| 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | |
| 05 City | 06 State | 07 Zip Code |

**III. OFF-SITE GENERATOR**

| 01 Name | 02 D+B Number | 01 Name | 02 D+B Number |
|---|---|---|---|
| Scotts Valley Sanitation District | | | |
| 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code |
| 700 Lundy Lane | | | |
| 05 City | 06 State / 07 Zip Code | 05 City | 06 State / 07 Zip Code |
| Scotts Valley | CA 95066 | | |
| 01 Name | 02 D+B Number | 01 Name | 02 D+B Number |
| 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code |
| 05 City | 06 State / 07 Zip Code | 05 City | 06 State / 07 Zip Code |

**IV. TRANSPORTER(S)**

| 01 Name | 02 D+B Number | 01 Name | 02 D+B Number |
|---|---|---|---|
| 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code |
| 05 City | 06 State / 07 Zip Code | 05 City | 06 State / 07 Zip Code |
| 01 Name | 02 D+B Number | 01 Name | 02 D+B Number |
| 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code |
| 05 City | 06 State / 07 Zip Code | 05 City | 06 State / 07 Zip Code |

**V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)**

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |

II. PAST RESPONSE ACTIVITIES

01 ☐ A. Water Supply Closed — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ B. Temporary Water Supply Provided — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ C. Permanent Water Supply Provided — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ D. Spilled Material Removed — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ E. Contaminated Soil Removed — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ F. Waste Repackaged — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ G. Waste Disposed Elsewhere — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ H. On Site Burial — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ I. In Situ Chemical Treatment — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ J. In Situ Biological Treatment — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ K. In Situ Physical Treatment — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ L. Encapsulation — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ M. Emergency Waste Treatment — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ N. Cutoff Walls — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ O. Emergency Diking/Surface Water Diversion — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ P. Cutoff Trenches/Sump — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ Q. Subsurface Cutoff Wall — 02 Date _____ — 03 Agency _____
04 Description NA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION
01 State | 02 Site Number

II. PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. Barrier Walls Constructed — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ S. Capping/Covering — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ T. Bulk Tankage Repaired — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ U. Grout Curtain Constructed — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ V. Bottom Sealed — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ W. Gas Control — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ X. Fire Control — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ Y. Leachate Treatment — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ Z. Area Evacuated — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ 1. Access to Site Restricted — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ 2. Population Relocated — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ 3. Other Remedial Activities — 02 Date _____ — 03 Agency _____
04 Description
NA

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |
| | |

II. ENFORCEMENT INFORMATION

01 Past Regulatory/Enforcement Action ☐ Yes ☒ No

02 Description of Federal, State, Local Regulatory/Enforcement Action

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

# APPENDIX C

## FIT Photographic Documentation



1. Entrance to site facing north



2. View of site facing west



3. View of site facing southwest

# APPENDIX D

## City of Scotts Valley
## Sanitation District Wastewater Analyses

**SEQUOIA** Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

City of Scotts Valley
370 Kings Valley Road
Scotts Valley, CA 95066
Attn: Paul Rieth

Date Sampled: 05/20/85
Date Received: 05/20/85
Date Reported: 06/07/85

| Sample Number | Sample Description |
|---|---|
| 505675 | Plant Effluent Grab |

ANALYSIS

| | |
|---|---|
| Cyanide, mg/L | 2.0 |
| Trichloroethene, ppb | < 1 |
| 1,1,1-Trichloroethane, ppb | < 1 |
| Tetrachloroethene, ppb | 1.2 |
| Carbon tetrachloride, ppb | < 1 |

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

slp

JUN 10 1985

**SEQUOIA** Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

City of Scotts Valley
370 Kings Valley Road
Scotts Valley, CA 95066
Attn: Paul Rieth

Date Sampled: 03/04/85
Date Received: 03/04/85
Date Reported: 03/25/85

| Sample Number | Sample Description |
|---|---|
| 503052 | Effluent Grab |

VOLATILE ORGANIC COMPOUNDS
results in ppb

| | |
|---|---|
| Acrolein | <100 |
| Acrylonitrile | <100 |
| Benzene | < 1 |
| Bromomethane | < 1 |
| Bromodichloromethane | < 1 |
| Bromoform | < 1 |
| Carbon Tetrachloride | < 1 |
| Chlorobenzene | < 1 |
| Chloroethane | < 1 |
| 2-Chloroethylvinyl ether | < 1 |
| Chloroform | 4.7 |
| Chloromethane | < 1 |
| Dibromochloromethane | < 1 |
| 1,1-Dichloroethane | < 1 |
| 1,2-Dichloroethane | < 1 |
| 1,1-Dichloroethene | < 1 |
| trans-1,2-Dichloroethane | < 1 |
| 1,2-Dichloropropane | < 1 |
| cis-1,3-Dichloropropene | < 1 |
| trans-1,3-Dichloropropene | < 1 |
| Ethylbenzene | < 1 |
| Methylene chloride | < 1 |
| 1,1,2,2-Tetrachloroethane | < 1 |
| Tetrachloroethene (PCE) | 2.4 |
| 1,1,1-Trichloroethane | < 1 |
| 1,1,2-Trichloroethane | < 1 |
| Trichloroethene | < 1 |
| Trichlorofluoromethane | < 1 |
| Toluene | < 1 |
| Vinyl chloride | < 1 |

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Laboratory Director

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Redwood City, CA 94063 • (415) 364-9222

City of Scotts Valley
370 Kings Valley Road
Scotts Valley, CA 95066
Attn: Paul Rieth

Date Sampled: 03/04/85
Date Received: 03/04/85
Date Extracted: -
Date Reported: 03/25/85

Sample Number

503044

Sample Description
24 Hr. Composite
Effluent

## BASE/NEUTRAL EXTRACT ORGANICS
results in ppb

| | | | |
|---|---|---|---|
| Acenaphthene | < 1 | Diethylphthalate | < 1 |
| Acenaphthylene | < 1 | Dimethylphthalate | < 1 |
| Anthracene | < 1 | Dioctylphthalate | < 1 |
| Benzo (a) anthracene | < 1 | Di-n-butylphthalate | 1.1 |
| Benzo (b) fluoranthene | < 1 | Isophorone | 5.7 |
| Benzo (k) fluoranthene | < 1 | Benzidine | <10 |
| Benzo (a) pyrene | < 1 | 2,4-Dinitrotoluene | < 1 |
| Benzo (g,h,i) perylene | < 1 | 2,6-Dinitrotoluene | < 1 |
| Chrysene | < 1 | 1,2-Diphenylhdrazine | < 1 |
| Dibenzo (a,h) anthracene | < 1 | Nitrobenzene | < 1 |
| Fluoranthane | < 1 | N-Nitrosodimethylamine | < 1 |
| Fluorene | < 1 | N-Nitrosodi-n-propylamine | < 1 |
| Indeno (1,2,3-cd) pyrene | < 1 | N-Nitrosodiphenylamine | < 1 |
| Naphthalene | < 1 | 2-Chloronaphthalene | < 1 |
| Phenanthrene | < 1 | 1,3-Dichlorobenzene | < 1 |
| Pyrene | < 1 | 1,4-Dichrlorbenzene | 2.5 |
| Bis (2-chloroethyl) ether | < 1 | 1,2-Dichlrorbenzene | 7.6 |
| Bis (2-chloroethoxy) methane | < 1 | 3,3-Dichlorobenzidine | <10 |
| Bis (2-ethylhexyl) phthalate | < 1 | Hexachlorobenzene | < 1 |
| Bis (2-chloroisopropyl) ether | < 1 | Hexachlorobutadiene | < 1 |
| 4-Bromophenyl phenyl ether | < 1 | Hexachloroethane | < 1 |
| Butyl benzyl phthalate | < 1 | Hexachlorocyclopentadiene | < 1 |
| 4-Chlorophenyl phenyl ether | < 1 | 2,3,7,8-Tetrachlorodibenzo-p-dioxin | < 1 |
| | | 1,2,4-Trichlorobenzene | < 1 |

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

**SEQUOIA** Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

City of Scotts Valley
370 Kings Valley Road
Scotts Valley, CA 95066
Attn: Paul Rieth

Date Sampled: 03/04/85
Date Received: 03/04/85
Date Extracted: -
Date Reported: 03/25/85

| Sample Number | Sample Description |
|---|---|
| 503044 | 24 Hr. Composite Effluent |

ACID EXTRACT ORGANICS
results in ppb

| | |
|---|---|
| 4-Chloro-3-methylphenol | < 1 |
| 2-Chlorophenol | < 1 |
| 2,4-Dichlorophenol | < 1 |
| 2,4-Dimethylphenol | < 1 |
| 2,4-Dinitrophenol | < 5 |
| 2-Methyl-4,6-dinitrophenol | < 5 |
| 2-Nitrophenol | < 1 |
| 4-Nitrophenol | <10 |
| Pentachlorophenol | 16 |
| Phenol | < 1 |
| 2,4,6-Trichlorophenol | < 1 |

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Barton
Laboratory Director

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City of Scotts Valley
370 Kings Valley Road
Scotts Valley, CA 95066
Attn: Paul Rieth

Date Sampled: 03/04/85
Date Received: 03/04/85
Date Extracted: -
Date Reported: 03/25/85

| Sample Number | Sample Description |
|---|---|
| 503044 | 24 Hr. Composite Effluent |

## PESTICIDE AND PCB COMPOUNDS
results in ppb

| | |
|---|---|
| Aldrin | < 1 |
| α-BHC | < 1 |
| β-BHC | < 1 |
| δ-BHC | < 1 |
| γ-BHC | < 1 |
| Chlordane | < 1 |
| 4,4-DDD | < 1 |
| 4,4-DDE | < 1 |
| 4,4-DDT | < 1 |
| Dieldrin | < 1 |
| Endosulfan 1 | < 1 |
| Endosulfan 11 | < 1 |
| Endosulfan Sulfate | < 1 |
| Endrin | < 1 |
| Endrin Aldehyde | < 1 |
| Heptachlor | < 1 |
| Heptachlor Epoxide | < 1 |
| Toxaphene | < 1 |
| PCB-1016 | < 1 |
| PCB-1221 | < 1 |
| PCB-1232 | < 1 |
| PCB-1242 | < 1 |
| PCB-1248 | < 1 |
| PCB-1254 | < 1 |
| PCB-1260 | < 1 |

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

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2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

City of Scotts Valley
370 Kings Valley Road
Scotts Valley, CA 95066
Attn: Paul Rieth

Date Sampled: 03/04/85
Date Received: 03/04/85
Date Extracted: -
Date Reported: 03/25/85

| Sample Number | Sample Description |
|---|---|
| 503052 | Effluent Grab |

PESTICIDE AND PCB COMPOUNDS
results in ppb

| | |
|---|---|
| Aldrin | < 1 |
| α-BHC | < 1 |
| β-BHC | < 1 |
| δ-BHC | < 1 |
| γ-BHC | < 1 |
| Chlordane | < 1 |
| 4,4-DDD | < 1 |
| 4,4-DDE | < 1 |
| 4,4-DDT | < 1 |
| Dieldrin | < 1 |
| Endosulfan 1 | < 1 |
| Endosulfan 11 | < 1 |
| Endosulfan Sulfate | < 1 |
| Endrin | < 1 |
| Endrin Aldehyde | < 1 |
| Heptachlor | < 1 |
| Heptachlor Epoxide | < 1 |
| Toxaphene | < 1 |
| PCB-1016 | < 1 |
| PCB-1221 | < 1 |
| PCB-1232 | < 1 |
| PCB-1242 | < 1 |
| PCB-1248 | < 1 |
| PCB-1254 | < 1 |
| PCB-1260 | < 1 |

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

**SEQUOIA** Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

City of Scotts Valley
370 Kings Valley Road
Scotts Valley, CA 95066
Attn: Paul Rieth

Date Sampled: 03/04/85
Date Received: 03/04/85
Date Extracted: -
Date Reported: 03/25/85

| Sample Number | Sample Description |
|---|---|
| 503051 | Influent Grab |

PESTICIDE AND PCB COMPOUNDS
results in ppb

| | |
|---|---|
| Aldrin | < 1 |
| α-BHC | < 1 |
| β-BHC | < 1 |
| δ-BHC | < 1 |
| γ-BHC | < 1 |
| Chlordane | < 1 |
| 4,4-DDD | < 1 |
| 4,4-DDE | < 1 |
| 4,4-DDT | < 1 |
| Dieldrin | < 1 |
| Endosulfan 1 | < 1 |
| Endosulfan 11 | < 1 |
| Endosulfan Sulfate | < 1 |
| Endrin | < 1 |
| Endrin Aldehyde | < 1 |
| Heptachlor | < 1 |
| Heptachlor Epoxide | < 1 |
| Toxaphene | < 1 |
| PCB-1016 | < 1 |
| PCB-1221 | < 1 |
| PCB-1232 | < 1 |
| PCB-1242 | < 1 |
| PCB-1248 | < 1 |
| PCB-1254 | < 1 |
| PCB-1260 | < 1 |

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2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

RECEIVED

MAR 28 1985

CITY OF SCOTTS VALLEY

City of Scotts Valley
370 Kings Valley Road
Scotts Valley, CA 95066
Attn: Paul Rieth

Date Sampled: 03/04/85
Date Received: 03/04/85
Date Reported: 03/25/85

| Sample Number | Sample Description |
|---|---|
| 503044 | 24 Hr. Composite Effluent |

VOLATILE ORGANIC COMPOUNDS
results in ppb

| | |
|---|---|
| Acrolein | <100 |
| Acrylonitrile | <100 |
| Benzene | < 1 |
| Bromomethane | < 1 |
| Bromodichloromethane | < 1 |
| Bromoform | < 1 |
| Carbon Tetrachloride | < 1 |
| Chlorobenzene | < 1 |
| Chloroethane | < 1 |
| 2-Chloroethylvinyl ether | < 1 |
| Chloroform | 18 |
| Chloromethane | < 1 |
| Dibromochloromethane | < 1 |
| 1,1-Dichloroethane | < 1 |
| 1,2-Dichloroethane | < 1 |
| 1,1-Dichloroethene | < 1 |
| trans-1,2-Dichloroethane | < 1 |
| 1,2-Dichloropropane | < 1 |
| cis-1,3-Dichloropropene | < 1 |
| trans-1,3-Dichloropropene | < 1 |
| Ethylbenzene | < 1 |
| Methylene chloride | < 1 |
| 1,1,2,2-Tetrachloroethane | < 1 |
| Tetrachloroethene | < 1 |
| 1,1,1-Trichloroethane | < 1 |
| 1,1,2-Trichloroethane | < 1 |
| Trichloroethene | < 1 |
| Trichlorofluoromethane | < 1 |
| Toluene | < 1 |
| Vinyl chloride | < 1 |

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Redwood City, CA 94063 • (415) 364-9222

RECEIVED
MAR 28 1985
CITY OF SCOTTS VALLEY

City of Scotts Valley
370 Kings Valley Road
Scotts Valley, CA 95066
Attn: Paul Rieth

Date Sampled: 03/04/85
Date Received: 03/04/85
Date Reported: 03/25/85

| Sample Number | Sample Description |
|---|---|
| 503051 | Influent Grab |

VOLATILE ORGANIC COMPOUNDS
results in ppb

| | |
|---|---|
| Acrolein | <100 |
| Acrylonitrile | <100 |
| Benzene | < 1 |
| Bromomethane | < 1 |
| Bromodichloromethane | < 1 |
| Bromoform | < 1 |
| Carbon Tetrachloride | < 1 |
| Chlorobenzene | < 1 |
| Chloroethane | < 1 |
| 2-Chloroethylvinyl ether | < 1 |
| Chloroform | 5.7 |
| Chloromethane | < 1 |
| Dibromochloromethane | < 1 |
| 1,1-Dichloroethane | < 1 |
| 1,2-Dichloroethane | < 1 |
| 1,1-Dichloroethene | < 1 |
| trans-1,2-Dichloroethane | < 1 |
| 1,2-Dichloropropane | < 1 |
| cis-1,3-Dichloropropene | < 1 |
| trans-1,3-Dichloropropene | < 1 |
| Ethylbenzene | < 1 |
| Methylene chloride | < 1 |
| 1,1,2,2-Tetrachloroethane | < 1 |
| Tetrachloroethene | < 1 |
| 1,1,1-Trichloroethane | < 1 |
| 1,1,2-Trichloroethane | < 1 |
| Trichloroethene | < 1 |
| Trichlorofluoromethane | < 1 |
| Toluene | < 1 |
| Vinyl chloride | < 1 |

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

**ecology and environment, inc.**
120 HOWARD STREET, SUITE #640, SAN FRANCISCO, CALIFORNIA 94105, TEL. 415-777-2811
International Specialists in the Environment

| | |
|---|---|
| Purpose: | CERCLA Site Inspection |
| Site: | Valley Gardens Golf Course<br>236 Mount Herman Road<br>Scotts Valley, CA 95066 |

| | |
|---|---|
| Site ERRIS ID Number: | CAD069127470 |
| Inspection ID Number: | C(85)C326 |
| TDD Number: | R-09-8506-22 |
| FIT Investigator(s): | Chris Lichens, Chemical Engineer<br>Steve Wisbaum, Hazardous Waste Specialist |
| Date of Inspection: | 7/8/85 |
| Report Prepared By: | Chris Lichens |
| Report Date: | 9/17/85 |

recycled paper

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# 1.0 INTRODUCTION

The Santa Cruz Board of Supervisors has requested assistance from the Environmental Protection Agency (EPA) in determining the source(s) of toxic contamination entering the federally designated "sole source" Santa Margarita aquifer. Ecology and Environment, Inc. (E & E) in its role as subcontractor to EPA has initiated the PA/SI phase of the investigation. The Preliminary Assessment, which consisted of a complete file search and interviews with state/local regulatory agencies, concluded that a site inspection was necessary to evaluate potential environmental hazards associated with effluent discharged to Valley Gardens Golf Course (VGGC). This effluent was from the Scotts Valley Treatment Plant, whose influent was composed of wastewater from various industrial and residential sources.

The purpose of this report is to summarize FIT's inspection activities, describe local environmental conditions, and to recommend future activities, if any, with respect to characterization and source verification of contaminants entering the Santa Margarita aquifer.

# 2.0 SITE HISTORY AND DESCRIPTION

## 2.1 Site History

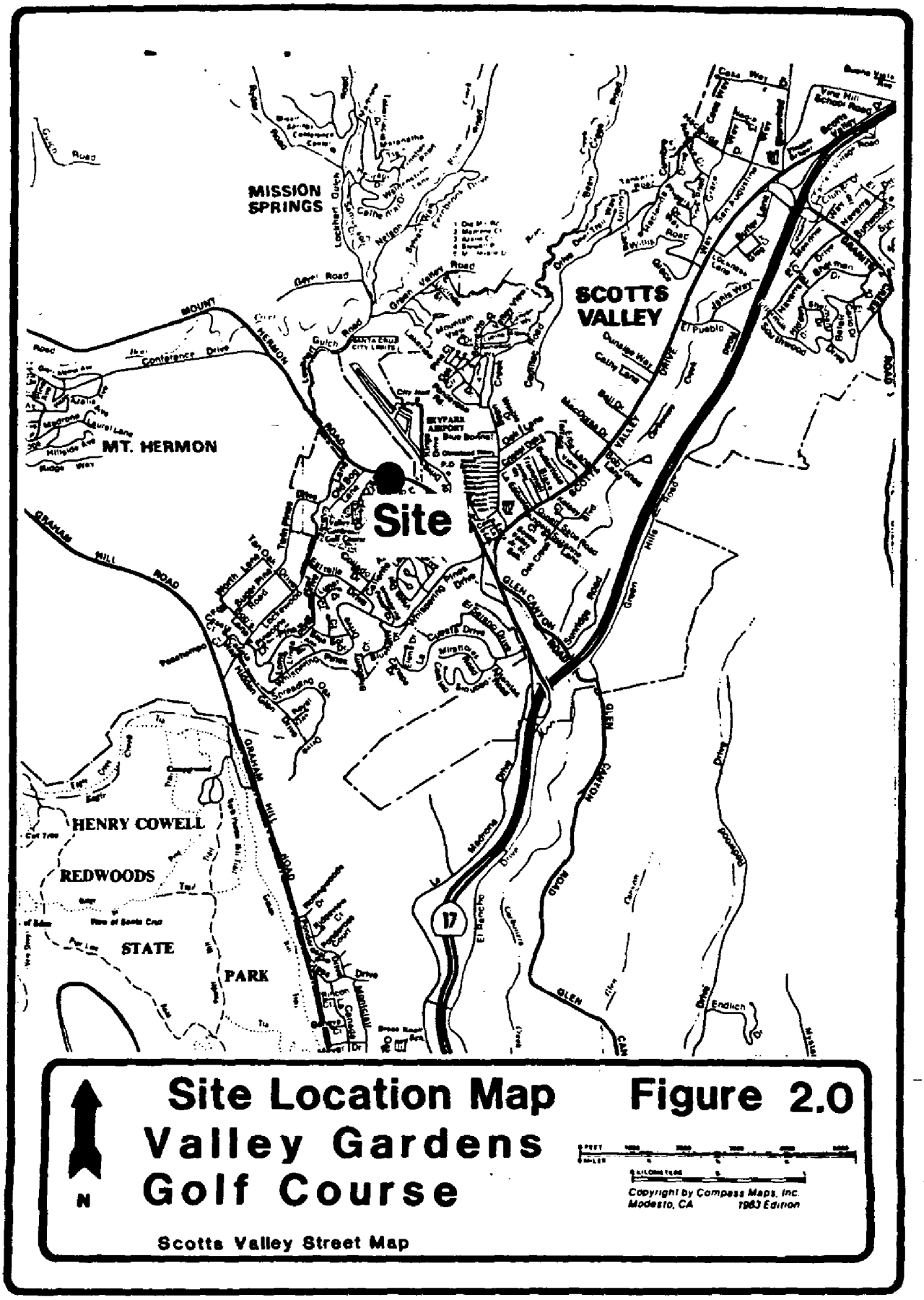
VGGC is located at 236 Mount Herman Road in Scotts Valley, California (see Site Location Map, Figure 2.0). From 1967 to 1983 treated wastewater was sold by the Scotts Valley Treatment Plant to VGGC for discharge into water hazard ponds. This wastewater was subsequently pumped from the water hazard ponds and used for irrigation of fairways and greens. Of various electronic firms, automobile repair shops, machine shops, and other industrial facilities investigated to date, several were connected to the sanitary sewer system while wastewater was discharged to VGGC. Although various volatile organic contaminants and cyanide were detected in sanitary sewage influent and effluent from the City of Scotts Valley in 1985 (see Appendix D for sample results), wastewater that was discharged to VGGC was never monitored for organic contaminants or cyanide. In June of 1972 the Central Coast RWQCB issued Order No. 72-44 regulating the "quality" of effluent disposed at VGGC in relation to total dissolved solid and nitrate concentration. Wastewater has not been disposed of at VGGC since 1983.

## 2.2 Process Description

All wastewater that was discharged at VGGC underwent secondary treatment consisting of an activated sludge process including extended aeration and chlorination (Bob Geyer, Scotts Valley Sanitation District, 8/14/85). Concentrations of the following constituents were monitored: total dissolved solids, sodium, chloride, sulfate, coliform organisms, five-day 20°C biochemical oxygen demand, and dissolved oxygen concentration (Central Coast RWQCB Memo, 9/8/72).

## 2.3 Waste Management Practices

From 1967 until 1973 the City of Scotts Valley Treatment Plant discharged treated wastewater to the VGGC (during the dry season) and to the Skypark Airport Leachfield which was a subsurface percolation


MISSION SPRINGS
SCOTTS VALLEY
MT. HERMON
Site
HENRY COWELL
REDWOODS
STATE
PARK
GRAHAM HILL ROAD
MOUNT HERMON ROAD
GLEN CANYON ROAD
SCOTTS VALLEY DRIVE
Green Valley Road
Conference Drive
Whispering Pines Drive
Cathedral Drive
Madrone Drive
Redwood Drive
Bethany Curve
Glen Arbor Road
Endich
17
N
Site Location Map
Valley Gardens
Golf Course
Figure 2.0
Scotts Valley Street Map
Copyright by Compass Maps, Inc.
Modesto, CA 1983 Edition

field adjacent to the Skypark Airport. Beginning in 1972 wastewater was discharged to a sand quarry on the Kaiser Sand and Gravel Company property and in 1975 to the playing field at Scotts Valley Intermediate School. Although complete discharge records are not available, the following quantities of waste effluent were discharged to the VGGC water hazard ponds:

May through September, 1980: 16,661,000.00 gallons
June through August, 1981: 13,609,000.00 gallons
October, 1981: 1,842,000.00 gallons
May through July, 1982: 6,266,790.00 gallons
September through October, 1982: 3,300,000.00 gallons
July through September, 1983: 1,750,960.00 gallons

(City of Scotts Valley Wastewater Effluent Usage Records)

# 3.0 ENVIRONMENTAL SETTING

## 3.1 Surrounding Area

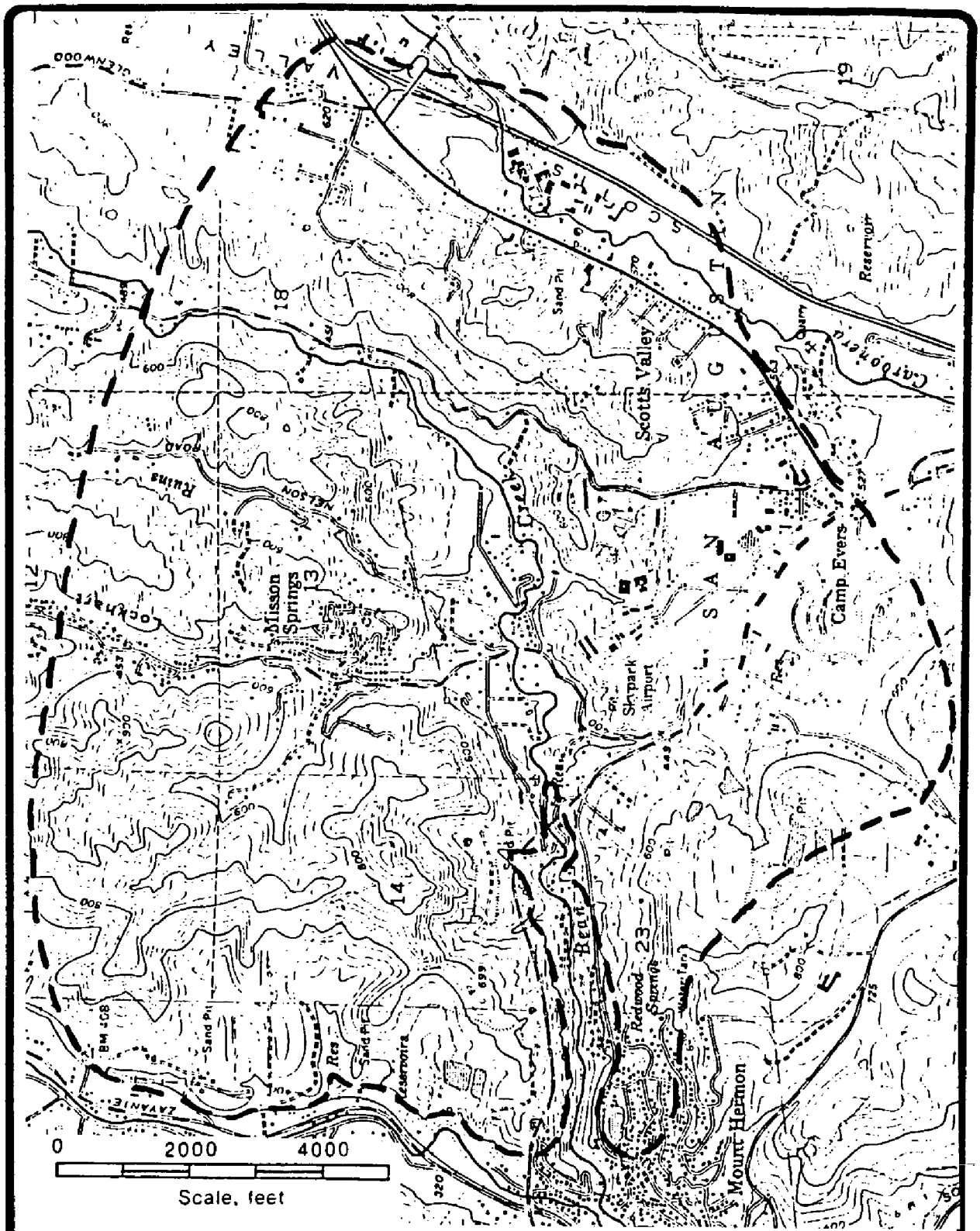
The VGGC site is adjacent to partially wooded areas and hills to the north, west, and south. The site is also in close proximity to residential areas.

## 3.2 Hydrogeology

The Scotts Valley community overlies the Scotts Valley Groundwater Basin. Located inland from the Santa Cruz coast, the basin encompasses approximately 12 square miles of rural, residential and commercial land. The Santa Margarita Sandstone is the primary water-bearing formation in the Scotts Valley area and was recently designated a sole source aquifer by EPA (Akers, 1969; Draft Support Document, August 1982). The approximate boundaries of the Santa Margarita Sandstone (hereafter called the "Santa Margarita aquifer" or the "aquifer") are shown in Figure 3.1.

Luhdorff and Scalmanini Consulting Engineers (April, 1984) described the Santa Margarita aquifer as an unconsolidated, thickly bedded yellowish-grey fine- to coarse-grained sandstone. Additionally, Groundwater Resources, Inc. has identified channel deposits of water-bearing conglomerate in the lower third of the aquifer (Luhdorff and Scalmanini, April 1984). The Santa Margarita aquifer exists under water table conditions and is recharged at outcrops of the Santa Margarita Sandstone by either direct precipitation or runoff. In general, this formation has a high recharge capacity and is therefore susceptible to contamination.

Depth to groundwater in Scotts Valley varies locally and fluctuates seasonally. The water levels are generally 20-140 feet below ground surface, with seasonal variances of 5-25 feet. Seasonally, the highest water levels are usually in March and April, while the lowest are normally in October. Locally, the water table in the Scotts Valley Drive area is highest in the northeastern part of the basin and downslopes toward the pumping depression at the El Pueblo well field, indicating a southward flow direction in that area. Groundwater




# FIGURE 3.1

**Approximate Boundary of the Saturated Santa Margarita Aquifer**

***after: Todd June 1985***

ecology and environment, in

levels are lower to the west of the Scotts Valley Drive area, and assuming continuity of the aquifer between this area and Bean Creek, the water table gradient indicates westward groundwater flow from a portion of the Scotts Valley Drive area to Bean Creek. Water table elevations in the Camp Evers area are highest to the south and decline gradually to the north, indicating groundwater flow from recharge along the highlands to the south and west of Camp Evers to discharge areas along Bean Creek (Todd, 1985).

Groundwater flow from the VGGC site appears to move northeast toward the axis of a regional syncline that emerges at Bean Creek. Depth to groundwater is approximately 20 feet below the site (Environmental Impact Report for Disposal of Scotts Valley Sewage Effluent, Use Permit No. 4598-U, 3/5/73 and Scotts Valley Water Resources Management Plan, Phase II, David Keith Todd Consulting Engineers, Inc., June 1985).

Soils on-site are classified as Zayante coarse sand which consists of strongly acid and medium acid coarse sand to a depth of 30 inches, changing to medium acid and neutral coarse sand to a depth of 60 inches. Permeability ranges from 6.0 to 20 inches per hour (Soil Survey of Santa Cruz County, U.S. Department of Agriculture, August 1980).

Available information indicates there are 104 groundwater wells in the Scotts Valley area. Of these, 5 are abandoned, 3 are capped, and 4 are not in operation. Apparent uses of the remaining 92 are as follows: 31 are domestic, 14 are industrial, 11 are municipal, 23 are test wells, and 13 are unknown (Scotts Valley Water Resources Management Plan, Phase II, David Keith Todd Consulting Engineers, Inc., Berkeley, California, June 1985).

There are a total of 3,300 service connections from groundwater supply wells in Scotts Valley of which 2,086 are accounted for by the Scotts Valley Water District, 442 are accounted for by the San Lorenzo Valley Water District, and 772 are accounted for by private wells and springs. An average of 3.8 persons per service connection implies that a population of 12,540 uses groundwater from Scotts Valley as a drinking water supply (Hazardous Waste Site Ranking System User's Manual, 8/82, Telephone conversation between Steve Wisbaum-FIT and

Daryl Ellis of the Scotts Valley Water District, 7/5/85; Telephone conversation between Steve Wisbaum-FIT and Al Haynes of the San Lorenzo Valley Water District, 7/5/85; and the North Central Santa Cruz County Water Supply Master Plan--Groundwater Resources--Scotts Valley Area, Luhdorff and Scalmanini Engineers, 4/84).

The closest known contaminated groundwater well to the VGGC site is the Skypark Airport monitoring well #2 which lies approximately 2,000 feet to the east. Levels of contamination detected to date are as follows: 0.6 parts per billion (ppb) and 0.82 ppb of trichloroethane (TCA), 8.8 ppb and 23.5 ppb of trichloroethylene (TCE), and 0.29 ppb tetrachloroethylene (PCE) (Stoner Laboratories, 397 Mathew Street, Santa Clara, California, 6/10/85). California Department of Health Services (DOHS) action levels for TCA, TCE, and PCE are 200.000 ppb, 5.00 ppb, and 4.00 ppb, respectively.

Within a 0.5 mile radius of the VGGC site there are also at least five other contaminated groundwater wells. These include Skypark Airport Monitoring Well #1, the Watkins Johnson monitoring well, the Scotts Valley Water District Well #9, and Champion and Estrella wells of the San Lorenzo Valley Water District (see Santa Margarita/Scotts Valley Contamination Study, TDD #R-09-8505-11).

## 3.3 Surface Water

Carbonera Creek lies about one mile east of the site. Its present and/or anticipated future uses include: municipal and domestic drinking water supply, wildlife habitat, agricultural supply, industrial service supply, cold freshwater habitat, and non-contact water recreation (Telephone conservation between Steve Wisbaum-FIT and Vern Jones-RWQCB, 7/6/85).

Bean Creek lies about 0.75 mile to the north of the site. Its present and/or anticipated future uses include: municipal and domestic drinking water supply, agricultural supply, industrial service supply, wildlife habitat, cold freshwater habitat, fish migration and spawning, contact and non-contact water recreation, and groundwater recharge (Telephone conversation between Steve Wisbaum-FIT and Vern Jones-RWQCB, 7/6/85).

Bean Creek is a tributary to the San Lorenzo River which is used as a drinking water supply for over 40,000 people through the Santa Cruz Municipal Water System. Carbonera Creek is also a tributary to the San Lorenzo River but it empties into the river downstream from the City's intake (Telephone conversation between Steve Wisbaum-FIT and Gene Watson of the Santa Cruz Municipal Utility System, 7/5/85).

Bean Creek was sampled for volatile organics as part of the Watkins Johnson remedial investigation in February of 1985 but no contamination was found (Sequoia Analytical Laboratory, 2549 Middlefield Road, Redwood City, California 94063, 2/22/85). The San Lorenzo River has not been sampled for volatile organics (letter from the City of Santa Cruz Water Department to FIT, 7/25/85) and it is not known whether Carbonera Creek has been sampled.

## 4.0 SUMMARY OF FIT INSPECTION EFFORTS

The inspection of VGGC was conducted on July 8, 1985 by FIT members Chris Lichens and Steve Wisbaum.

The inspection was initiated with a meeting with Bob Geyer of the Scotts Valley Sanitation District to discuss the historical development of the site, ownership, waste management, process descriptions, etc. Following the meeting FIT inspected the VGGC site (see Appendix C for Photographic Documentation). All pertinent information given to FIT during this inspection is included in previous sections of this report and on the site inspection form (see Appendix B).

# 5.0 FIT CONCLUSIONS AND RECOMMENDATIONS

Secondary treated wastewater from the City of Scotts Valley Waste Treatment Plant was disposed of at VGGC from 1967 to 1983. This wastewater was monitored for various inorganic and biological contaminants but not for organic contaminants or cyanide. In 1985 several volatile organic chemicals and cyanide were detected in trace amounts in Treatment Plant effluent. Total quantities of effluent discharged to VGGC are unknown.

Preliminary review of existing industrial facilities (electronics firms, automobile repair shops, machine shops, etc.) indicates that several facilities that used various chemical compounds being found in Scotts Valley groundwater were connected to the Scotts Valley Sanitary Sewer System during the period of discharge to VGGC. However, it is impossible to know at this point if these or other toxic substances were discharged into the sewer by these facilities. In addition, little is known about the nature of sanitary wastewater discharge from other unidentified small businesses, industrial facilities, and residences that were connected to the Scotts Valley Sanitary Sewage System during that period.

Because of the uncertainty associated with determining the chemical nature of effluent discharged to VGGC, FIT can neither discount nor confirm the likelihood of on-site contamination. Hence, it is difficult to assess the potential contribution of discharged effluent to existing groundwater contamination in Scotts Valley. Therefore, FIT recommends that this site be given special consideration in future groundwater sampling plans and remedial investigations developed as part of the Santa Margarita/Scotts Valley Contamination Study (TDD #R-09-8505-11).

# APPENDIX A

## Contact Log and Reports

## P.A./S.I. CONTACT LOG

**Facility Name:** Valley Gardens Golf Course
**Facility ID:** R-09-8506-22

| Name | Affiliation | Phone # | Date | Information |
|---|---|---|---|---|
| File Search | EPA CERCLIS File | | 05/29/85 | CERCLIS File showed no listing. |
| File Search | Department of Health Services | (415) 540-2043 | 06/19/85 | File not found. |
| File Search | Central Coast RWQCB | (805) 549-3147 | 06/26/85 | File not found. |
| File Search | Santa Cruz County Environmental Health | (408) 425-2341 | 06/25/85 | See Contact Report. |
| Bob Geyer | Scotts Valley Sanitation District | (408) 438-0732 | 08/13/85 | Mr. Geyer informed FIT that sanitary effluent was initially discharged to Kaiser Pit in 1972. He also stated that sanitary effluent was discharged to the Skypark Airport Leachfield from 1967 to the summer of 1973, and that the Leachfield was owned by Holmes Lumber Yard while effluent was being discharged there. Since 1979 a Mr. Graham has owned one parcel at the Leachfield and sold it to Harmony Foods in August of 1985. The other parcel is owned by K-Mart who bought it approximately 6 months ago. |

## P.A./S.I. CONTACT LOG (Cont.)

**Facility Name:** Valley Gardens Golf Course
**Facility ID:** R-09-8506-22

| Name | Affiliation | Phone # | Date | Information |
|---|---|---|---|---|
| Bob Geyer | Scotts Valley Sanitation District | (408) 438-0732 | 08/14/85 | Mr. Geyer informed FIT that the NPDES number for all four sanitation district sites is CA0048828. He is stated that coagulation and duel media filtration constitutes the third phase of tertiary wastewater treatment. Finally, Mr. Geyer confirmed usage dates for the Valley Gardens Golf Course and Scotts Valley Intermediate School sites and ownership for Valley Gardens. |

# CONTACT REPORT

AGENCY: Santa Cruz Environmental Health

ADDRESS: 701 Ocean Street, Fourth Floor, Santa Cruz, CA 95060

PERSON CONTACTED: Raynor Talley, Director

PHONE NO.: (408) 425-2341

FROM: Steve Wisbaum

TO: CERCLIS File

DATE: June 25, 1985

SUBJECT: File search conducted for City of Scotts Valley Sanitation District Sites:

Sky Park Airport Leachfield
Kaiser Pit
Valley Gardens Golf Course
Scotts Valley Intermediate School

Information on these sites were found in the following files:

File # 32.7: Scotts Valley
File # 32.2 - 15B: Scotts Valley Wastewater Users

# APPENDIX B

## Site Inspection Report Form

# POTENTIAL HAZARDOUS WASTE SITE
# SITE INSPECTION REPORT
## PART 1 - SITE LOCATION AND INSPECTION INFORMATION

**I. IDENTIFICATION**

| 01 State | 02 Site Number |
|---|---|
| CA | CAD 069127470 |

**II. SITE NAME AND LOCATION**

| 01 Site Name (Legal, common, or descriptive name of site) | 02 Street, Route No., or Specific Location Identifier | | | | |
|---|---|---|---|---|---|
| Valley Gardens Golf Course | 236 Mt. Herman Road | | | | |
| **03 City** | **04 State** | **05 Zip Code** | **06 County** | **07 County Code** | **08 Cong Dist** |
| Scotts Valley | CA | 95066 | Santa Cruz | | |

| 09 Coordinates Latitude | Longitude | 10 Type of Ownership (Check one) |
|---|---|---|
| 37 03 06.0 | 122 00 54.0 | ☐ A. Private ☐ B. Federal _____ ☐ C. State ☐ D. County ☒ E. Municipal ☐ F. Other _____ ☐ G. Unknown |

**III. INSPECTION INFORMATION**

| 01 Date of Inspection | 02 Site Status | 03 Years of Operation |
|---|---|---|
| 07 /08 /85 (Month Day Year) | ☐ Active ☒ Inactive | 1967 (Beginning Year) 1983 (Ending Year) ☐ Unknown |

04 Agency Performing Inspection (Check all that apply)
☐ A. EPA ☐ B. EPA Contractor Ecology & Environment, Inc (Name of firm) ☐ C. Municipal ☐ D. Municipal Contractor _____ (Name of firm)
☐ E. State ☐ F. State Contractor _____ (Name of firm) ☐ G. Other _____ (Specify)

| 05 Chief Inspector | 06 Title | 07 Organization | 08 Telephone No. |
|---|---|---|---|
| Steve Wisbaum | FIT Leader | E & E, Inc. | (415)777-2811 |
| **09 Other Inspectors** | **10 Title** | **11 Organization** | **12 Telephone No.** |
| Chris Lichens | FIT Member | E & E, Inc. | (415)777-2811 |
| | | | ( ) |
| | | | ( ) |

| 13 Site Representatives Interviewed | 14 Title | 15 Address | 16 Telephone No. |
|---|---|---|---|
| Bob Geyer | Superintendant | 700 Lundy Lane | (408)438-0732 |
| | | | ( ) |
| | | | ( ) |
| | | | ( ) |
| | | | ( ) |

| 17 Access Gained By (Check one) | 18 Time of Inspection | 19 Weather Conditions |
|---|---|---|
| ☒ Permission ☐ Warrant | | Fair |

**IV. INFORMATION AVAILABLE FROM**

| 01 Contact | 02 Of (Agency/Organization) | 03 Telephone No. |
|---|---|---|
| Bob Geyer | Scotts Valley Sanitation District | (408)438-0732 |

| 04 Person Responsible for Site Inspection Form | 05 Agency | 06 Organization | 07 Telephone No. | 08 Date |
|---|---|---|---|---|
| Chris Lichens | | E & E, Inc. | (415)777-2811 | 08 /08 / 85 (Month Day Year) |

# POTENTIAL HAZARDOUS WASTE SITE
# SITE INSPECTION REPORT
## PART 2 - WASTE INFORMATION

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |
| | |

## II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

**01 Physical States** (Check all that apply)

- ☐ A. Solid
- ☐ B. Powder, Fines
- ☐ C. Sludge
- ☐ D. Other _____ (Specify)
- ☐ E. Slurry
- ☒ F. Liquid
- ☐ G. Gas

**02 Waste Quantity at Site** (Measure of waste quantities must be independent)

Tons _____

Cubic Yards _____

No. of Drums _____

**03 Waste Characteristics** (Check all that apply)

- ☐ A. Toxic
- ☐ B. Corrosive
- ☐ C. Radioactive
- ☐ D. Persistent
- ☐ E. Soluble
- ☐ F. Infectious
- ☐ G. Flammable
- ☐ H. Ignitable
- ☐ I. Highly Volatile
- ☐ J. Explosive
- ☐ K. Reactive
- ☐ L. Incompatible
- ☒ M. Not Applicable

## III. WASTE TYPE

| Category | Substance Name | 01 Gross Amount | 02 Unit of Measure | 03 Comments |
|---|---|---|---|---|
| SLU | Sludge | | | |
| OLW | Oily Waste | | | |
| SOL | Solvents | | | |
| PSD | Pesticides | | | |
| OCC | Other Organic Chemicals | Unknown | | Wastewater was suspected to be contaminated with organics but this was not confirmed. |
| IOC | Inorganic Chemicals | | | |
| ACD | Acids | | | |
| BAS | Bases | | | |
| MES | Heavy Metals | | | |

## IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

| 01 Category | 02 Substance Name | 03 CAS Number | 04 Storage/Disposal Method | 05 Concentration | 06 Measure of Concentration |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
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| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

## V. FEEDSTOCKS (See Appendix for CAS Numbers)

| Category | 01 Feedstock Name | 02 CAS Number | Category | 01 Feedstock Name | 02 CAS Number |
|---|---|---|---|---|---|
| FDS | | | FDS | | |
| FDS | | | FDS | | |
| FDS | | | FDS | | |
| FDS | | | FDS | | |

## VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |
| | |

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. Groundwater Contamination
03 Population Potentially Affected: 12,540
02 [ ] Observed (Date: _____) [X] Potential [ ] Alleged
04 Narrative Description

Between the years of 1967 and 1983 sanitary wastewater which was potentially contaminated with organic chemicals was disposed of at the Valley Gardens Golf Course and recharged to the water table. Volume of wastewater discharged is unknown.

01 [ ] B. Surface Water Contamination
03 Population Potentially Affected: _____
02 [ ] Observed (Date: _____) [ ] Potential [ ] Alleged
04 Narrative Description

None Documented

01 [ ] C. Contamination of Air
03 Population Potentially Affected: _____
02 [ ] Observed (Date: _____) [ ] Potential [ ] Alleged
04 Narrative Description

None Documented

01 [ ] D. Fire/Explosive Conditions
03 Population Potentially Affected: _____
02 [ ] Observed (Date: _____) [ ] Potential [ ] Alleged
04 Narrative Description

None Documented

01 [ ] E. Direct Contact
03 Population Potentially Affected: _____
02 [ ] Observed (Date: _____) [ ] Potential [ ] Alleged
04 Narrative Description

None Documented

01 [ ] F. Contamination of Soil
03 Area Potentially Affected: _____
02 [ ] Observed (Date: _____) [ ] Potential [ ] Alleged
04 Narrative Description

None Documented

01 [X] G. Drinking Water Contamination
03 Population Potentially Affected: 12,540
02 [ ] Observed (Date: _____) [X] Potential [ ] Alleged
04 Narrative Description

01 [ ] H. Worker Exposure/Injury
03 Workers Potentially Affected: _____
02 [ ] Observed (Date: _____) [ ] Potential [ ] Alleged
04 Narrative Description

None Documented

01 [ ] I. Population Exposure/Injury
03 Population Potentially Affected: _____
02 [ ] Observed (Date: _____) [ ] Potential [ ] Alleged
04 Narrative Description

None Documented

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |
| | |

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. Damage to Flora — 02 ☐ Observed (Date: _____) ☐ Potential ☐ Alleged
04 Narrative Description

None Documented

01 ☐ K. Damage to Fauna — 02 ☐ Observed (Date: _____) ☐ Potential ☐ Alleged
04 Narrative Description

None Documented

01 ☐ L. Contamination of Food Chain — 02 ☐ Observed (Date: _____) ☐ Potential ☐ Alleged
04 Narrative Description

None Documented

01 ☐ M. Unstable Containment of Wastes (Spills/Runoff/Standing liquids, Leaking drums) — 02 ☐ Observed (Date: _____) ☐ Potential ☐ Alleged
03 Population Potentially Affected: _____ 04 Narrative Description

None Documented

01 ☐ N. Damage to Offsite Property — 02 ☐ Observed (Date: _____) ☐ Potential ☐ Alleged
04 Narrative Description

None Documented

01 ☐ O. Contamination of Sewers, Storm/Drains, WWTPs — 02 ☐ Observed (Date: _____) ☐ Potential ☐ Alleged
04 Narrative Description

None Documented

01 ☐ P. Illegal/Unauthorized Dumping — 02 ☐ Observed (Date: _____) ☐ Potential ☐ Alleged
04 Narrative Description

None Documented

05 Description of Any Other Known, Potential, or Alleged Hazards

None Documented

III. TOTAL POPULATION POTENTIALLY AFFECTED: 12,540

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

# POTENTIAL HAZARDOUS WASTE SITE
## SITE INSPECTION REPORT
### PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |
| | |

## II. PERMIT INFORMATION

| 01 Type of Permit Issued (Check all that apply) | 02 Permit Number | 03 Date Issued | 04 Expiration Date | 05 Comments |
|---|---|---|---|---|
| [X] A. NPDES | CA 0048828 | | | |
| [ ] B. UIC | | | | |
| [ ] C. AIR | | | | |
| [ ] D. RCRA | | | | |
| [ ] E. RCRA INTERIM STATUS | | | | |
| [ ] F. SPCC PLAN | | | | |
| [ ] G. STATE (Specify) | | | | |
| [ ] H. Local (Specify) | | | | |
| [ ] I. Other (Specify) | | | | |
| [ ] J. None | | | | |

## III. SITE DESCRIPTION

| 01 Storage/Disposal (Check all that apply) | 02 Amount | 03 Unit of Measure |
|---|---|---|
| [ ] A. Surface Impoundment | | |
| [ ] B. Piles | | |
| [ ] C. Drums, Above Ground | | |
| [ ] D. Tank, Above Ground | | |
| [ ] E. Tank, Below Ground | | |
| [ ] F. Landfill | | |
| [ ] G. Landfarm | | |
| [ ] H. Open Dump | | |
| [X] I. Other Holding pond, irrigation (Specify) | Unknown | |

| 04 Treatment (Check all that apply) |
|---|
| [ ] A. Incineration |
| [ ] B. Underground Injection |
| [ ] C. Chemical/Physical |
| [ ] D. Biological |
| [ ] E. Waste Oil Processing |
| [ ] F. Solvent Recovery |
| [ ] G. Other Recycling/ Recovery |
| [ ] H. Other Activated sludge with extended aeration, chlorination (Specify) |

| 05 Other |
|---|
| [ ] A. Buildings On Site |

| 06 Area of Site |
|---|
| 0.5 Acres |

07 Comments

## IV. CONTAINMENT

01 Containment of Wastes (Check one)
[ ] A. Adequate, Secure [ ] B. Moderate [ ] C. Inadequate, Poor [ ] D. Insecure, Unsound, Dangerous
None

02 Description of Drums, Diking, Liners, Barriers, etc.

None

## V. ACCESSIBILITY

01 Waste Easily Accessible: [X] Yes [ ] No
02 Comments

## VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Scotts Valley Sanitation District

# POTENTIAL HAZARDOUS WASTE SITE
# SITE INSPECTION REPORT
## PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 State | 02 Site Number

## II. DRINKING WATER SUPPLY

| 01 Type of Drinking Supply (Check as applicable) | SURFACE | WELL | 02 Status | ENDANGERED | AFFECTED | MONITORED | 03 Distance to Site |
|---|---|---|---|---|---|---|---|
| Community | A. ☐ | B. ☒ | | A. ☐ | B. ☐ | C. ☒ | A. _____ (mi) |
| Non-Community | C. ☐ | D. ☐ | | D. ☐ | E. ☐ | F. ☐ | B. _____ (mi) |

## III. GROUNDWATER

01 Groundwater Use in Vicinity (Check one)

☒ A. Only Source for Drinking ☐ B. Drinking (Other sources available) Commercial, Industrial, Irrigation (No other water sources available) ☐ C. Commercial, Industrial, Irrigation (Limited other sources available) ☐ D. Not Used, Unuseable

02 Population Served by Ground Water 12,540

03 Distance to Nearest Drinking Water Well 0.5 (mi)

| 04 Depth to Groundwater | 05 Direction of Groundwater Flow | 06 Depth to Aquifer of Concern | 07 Potential Yield of Aquifer | 08 Sole Source Aquifer |
|---|---|---|---|---|
| _____ (ft) | _____ | _____ (ft) | _____ (gpd) | ☐ Yes ☐ No |

09 Description of Wells (Including useage, depth, and location relative to population and buildings)

Newest well is used by the Scotts Valley Water district as a municipal supply.
It is in close proximity to residential areas.

| 10 Recharge Area | | 11 Discharge Area | |
|---|---|---|---|
| ☒ Yes | Comments | ☐ Yes | Comments |
| ☐ No | | ☒ No | |

## IV. SURFACE WATER

01 Surface Water (Check one)

☒ A. Reservior, Recreation Drinking Water Source ☐ B. Irrigation, Economically Important Resources ☐ C. Commercial, Industrial ☐ D. Not Currently Used

02 Affected/Potentially Affected Bodies of Water

| Name: | Affected | Distance to Site |
|---|---|---|
| Bean Creek | ☐ | 0.75 (mi) |
| | ☐ | _____ (mi) |
| | ☐ | _____ (mi) |

## V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 Total Population Within

One (1) Mile of Site A. _____ No. of Persons
Two (2) Miles of Site B. _____ No. of Persons
Three (3) Miles of Site C. _____ No. of Persons

02 Distance to Nearest Population 0.2 (mi)

03 Number of Buildings Within Two (2) Miles of Site _____

04 Distance to Nearest Off-Site Building _____ (mi)

05 Population Within Vicinity of Site (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 State | 02 Site Number

## VI. ENVIRONMENTAL INFORMATION

01 Permeability of Unsaturated Zone (Check one)

☐ A. $10^{-6}$ - $10^{-8}$ cm/sec ☐ B. $10^{-4}$ - $10^{-6}$ cm/sec ☐ C. $10^{-4}$ - $10^{-3}$ cm/sec ☒ D. Greater Than $10^{-3}$ cm/sec

02 Permeability of Bedrock (Check one)

☐ A. Impermeable (Less than $10^{-6}$ cm/sec) ☐ B. Relatively Impermeable ($10^{-4}$ - $10^{-6}$ cm/sec) ☐ C. Relatively Permeable ($10^{-2}$ - $10^{-4}$ cm/sec) ☐ D. Very Permeable (Greater Than $10^{-2}$ cm/sec)

| 03 Depth to Bedrock | 04 Depth of Contaminated Soil Zone | 05 Soil pH | |
|---|---|---|---|
| _____ (ft) | _____ (ft) | _____ | |

| 06 Net Precipitation | 07 One Year 24 Hour Rainfall | 08 Slope: Site Slope | Direction of Site Slope | Terrain Average Slope |
|---|---|---|---|---|
| 1.0 (ft) | 3.0 (in) | 5-30 % | | _____ % |

09 Flood Potential
Site is in _____ Year Floodplan

10
☐ Site is on Barrier Island, Coastal High Hazard Area, Riverine Floodway

11 Distance to Wetlands (5 acre minimum)

| ESTUARINE | OTHER |
|---|---|
| A. NA (mi) | B. NA (mi) |

12 Distance to Critical Habitat (of endangered species)
NA (mi)
Endangered Species: None

13 Land Use in Vicinity

Distance to:

| COMMERCIAL/INDUSTRIAL | RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES | AGRICULTURAL LANDS: PRIME AG LAND | AG LAND |
|---|---|---|---|
| A. 2 (mi) | B. 1/5 (mi) | C. NA (mi) | D. NA (mi) |

14 Description of Site in Relation to Surrounding Topography

The site is adjacent to partially wooded areas and steeper hills to the north, west, and south.

## VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

USDA Soil Survey

# POTENTIAL HAZARDOUS WASTE SITE
# SITE INSPECTION REPORT
## PART 6 - SAMPLE AND FIELD INFORMATION

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |
| | |

### II. SAMPLES TAKEN

| Sample Type | 01 Number of Samples Taken | 02 Samples Sent To | 03 Estimated Date Results Available |
|---|---|---|---|
| Groundwater | | | |
| Surface Water | | | |
| Waste | | | |
| Air | | | |
| Runoff | | | |
| Spill | | | |
| Soil | | | |
| Vegetation | | | |
| Other | | | |

### III. FIELD MEASUREMENTS TAKEN

| 01 Type | 02 Comments |
|---|---|
| | |
| | |
| | |
| | |
| | |

### IV. PHOTOGRAPHS AND MAPS

01 Type [X] Ground [ ] Aerial

02 In Custody of E & E, Inc.
(Name of organization or individual)

03 Maps
[X] Yes
[ ] No

04 Location of Maps
E & E, Inc., San Francisco

### V. OTHER FIELD DATA COLLECTED (provide narrative description)

None

### VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Scotts Valley Sanitation District

# POTENTIAL HAZARDOUS WASTE SITE
# SITE INSPECTION REPORT
## PART 7 - OWNER INFORMATION

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |

**II. CURRENT OWNER(S)**

| 01 Name | 02 D+B Number | 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | 05 City | 06 State | 07 Zip Code |
|---|---|---|---|---|---|---|
| Steve Barath | | 236 Mount Herman Road | | Scotts Valley | CA | 95066 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**PARENT COMPANY (If applicable)**

| 08 Name | 09 D+B Number | 10 Street Address (P.O. Box, RFD #, etc.) | 11 SIC Code | 12 City | 13 State | 14 Zip Code |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**III. PREVIOUS OWNER(S) (List most recent first)**

| 01 Name | 02 D+B Number | 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | 05 City | 06 State | 07 Zip Code |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**IV. REALTY OWNER(S) (If applicable, list most recent first)**

| 01 Name | 02 D+B Number | 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | 05 City | 06 State | 07 Zip Code |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)**

Bob Geyer, Scotts Valley Sanitation District

# POTENTIAL HAZARDOUS WASTE SITE
# SITE INSPECTION REPORT
## PART B - OPERATOR INFORMATION

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |

| II. CURRENT OPERATOR (Provide if different from owner) | | | OPERATOR'S PARENT COMPANY (If applicable) | | |
|---|---|---|---|---|---|
| 01 Name | 02 D+B Number | | 10 Name | 11 D+B Number | |
| 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | | 12 Street Address (P.O. Box, RFD #, etc.) | 13 SIC Code | |
| 05 City | 06 State | 07 Zip Code | 14 City | 15 State | 16 Zip Code |
| 08 Years of Operation | 09 Name of Owner | | | | |

| III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner) | | | PREVIOUS OPERATORS' PARENT COMPANIES (If applicable) | | |
|---|---|---|---|---|---|
| 01 Name | 02 D+B Number | | 10 Name | 11 D+B Number | |
| 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | | 12 Street Address (P.O. Box, RFD #, etc.) | 13 SIC Code | |
| 05 City | 06 State | 07 Zip Code | 14 City | 15 State | 16 Zip Code |
| 08 Years of Operation | 09 Name of Owner During This Period | | | | |
| 01 Name | 02 D+B Number | | 10 Name | 11 D+B Number | |
| 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | | 12 Street Address (P.O. Box, RFD #, etc.) | 13 SIC Code | |
| 05 City | 06 State | 07 Zip Code | 14 City | 15 State | 16 Zip Code |
| 08 Years of Operation | 09 Name of Owner During This Period | | | | |
| 01 Name | 02 D+B Number | | 10 Name | 11 D+B Number | |
| 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | | 12 Street Address (P.O. Box, RFD #, etc.) | 13 SIC Code | |
| 05 City | 06 State | 07 Zip Code | 14 City | 15 State | 16 Zip Code |
| 08 Years of Operation | 09 Name of Owner During This Period | | | | |

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

# POTENTIAL HAZARDOUS WASTE SITE
# SITE INSPECTION REPORT
## PART 9 - GENERATOR/TRANSPORTER INFORMATION

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |

### II. ON-SITE GENERATOR

| 01 Name | 02 D+B Number | |
|---|---|---|
| None | | |
| 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | |
| 05 City | 06 State / 07 Zip Code | |

### III. OFF-SITE GENERATOR

| 01 Name | 02 D+B Number | 01 Name | 02 D+B Number |
|---|---|---|---|
| Scotts Valley Sanitation District | | | |
| 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code |
| 700 Lundy Lane | | | |
| 05 City | 06 State / 07 Zip Code | 05 City | 06 State / 07 Zip Code |
| Scotts Valley | CA 95066 | | |
| 01 Name | 02 D+B Number | 01 Name | 02 D+B Number |
| 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code |
| 05 City | 06 State / 07 Zip Code | 05 City | 06 State / 07 Zip Code |

### IV. TRANSPORTER(S)

| 01 Name | 02 D+B Number | 01 Name | 02 D+B Number |
|---|---|---|---|
| 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code |
| 05 City | 06 State / 07 Zip Code | 05 City | 06 State / 07 Zip Code |
| 01 Name | 02 D+B Number | 01 Name | 02 D+B Number |
| 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code | 03 Street Address (P.O. Box, RFD #, etc.) | 04 SIC Code |
| 05 City | 06 State / 07 Zip Code | 05 City | 06 State / 07 Zip Code |

### V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |
| | |

II. PAST RESPONSE ACTIVITIES

01 ☐ A. Water Supply Closed — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ B. Temporary Water Supply Provided — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ C. Permanent Water Supply Provided — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ D. Spilled Material Removed — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ E. Contaminated Soil Removed — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ F. Waste Repackaged — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ G. Waste Disposed Elsewhere — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ H. On Site Burial — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ I. In Situ Chemical Treatment — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ J. In Situ Biological Treatment — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ K. In Situ Physical Treatment — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ L. Encapsulation — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ M. Emergency Waste Treatment — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ N. Cutoff Walls — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ O. Emergency Diking/Surface Water Diversion — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ P. Cutoff Trenches/Sump — 02 Date _____ — 03 Agency _____
04 Description NA

01 ☐ Q. Subsurface Cutoff Wall — 02 Date _____ — 03 Agency _____
04 Description NA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION
01 State | 02 Site Number

II. PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. Barrier Walls Constructed 02 Date _____ 03 Agency _____
04 Description NA

01 ☐ S. Capping/Covering 02 Date _____ 03 Agency _____
04 Description NA

01 ☐ T. Bulk Tankage Repaired 02 Date _____ 03 Agency _____
04 Description NA

01 ☐ U. Grout Curtain Constructed 02 Date _____ 03 Agency _____
04 Description NA

01 ☐ V. Bottom Sealed 02 Date _____ 03 Agency _____
04 Description NA

01 ☐ W. Gas Control 02 Date _____ 03 Agency _____
04 Description NA

01 ☐ X. Fire Control 02 Date _____ 03 Agency _____
04 Description NA

01 ☐ Y. Leachate Treatment 02 Date _____ 03 Agency _____
04 Description NA

01 ☐ Z. Area Evacuated 02 Date _____ 03 Agency _____
04 Description NA

01 ☐ 1. Access to Site Restricted 02 Date _____ 03 Agency _____
04 Description NA

01 ☐ 2. Population Relocated 02 Date _____ 03 Agency _____
04 Description NA

01 ☐ 3. Other Remedial Activities 02 Date _____ 03 Agency _____
04 Description
NA

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

| I. IDENTIFICATION | |
|---|---|
| 01 State | 02 Site Number |
| | |

II. ENFORCEMENT INFORMATION

01 Past Regulatory/Enforcement Action ☐ Yes ☒ No

02 Description of Federal, State, Local Regulatory/Enforcement Action

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

# APPENDIX C

## FIT Photographic Documentation



1. Entrance to site facing north



2. View of site facing west



3. View of site facing southwest

APPENDIX D

City of Scotts Valley
Sanitation District Wastewater Analyses

**SEQUOIA** Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

City of Scotts Valley
370 Kings Valley Road
Scotts Valley, CA 95066
Attn: Paul Rieth

Date Sampled: 05/20/85
Date Received: 05/20/85
Date Reported: 06/07/85

| Sample Number | Sample Description |
|---|---|
| 505675 | Plant Effluent Grab |

ANALYSIS

| | |
|---|---|
| Cyanide, mg/L | 2.0 |
| Trichloroethene, ppb | < 1 |
| 1,1,1-Trichloroethane, ppb | < 1 |
| Tetrachloroethene, ppb | 1.2 |
| Carbon tetrachloride, ppb | < 1 |

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

slp

JUN 10 1985

**SEQUOIA** Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

City of Scotts Valley
370 Kings Valley Road
Scotts Valley, CA 95066
Attn: Paul Rieth

Date Sampled: 03/04/85
Date Received: 03/04/85
Date Reported: 03/25/85

| Sample Number | Sample Description |
|---|---|
| 503052 | Effluent Grab |

VOLATILE ORGANIC COMPOUNDS
results in ppb

| | |
|---|---|
| Acrolein | <100 |
| Acrylonitrile | <100 |
| Benzene | < 1 |
| Bromomethane | < 1 |
| Bromodichloromethane | < 1 |
| Bromoform | < 1 |
| Carbon Tetrachloride | < 1 |
| Chlorobenzene | < 1 |
| Chloroethane | < 1 |
| 2-Chloroethylvinyl ether | < 1 |
| Chloroform | 4.7 |
| Chloromethane | < 1 |
| Dibromochloromethane | < 1 |
| 1,1-Dichloroethane | < 1 |
| 1,2-Dichloroethane | < 1 |
| 1,1-Dichloroethene | < 1 |
| trans-1,2-Dichloroethane | < 1 |
| 1,2-Dichloropropane | < 1 |
| cis-1,3-Dichloropropene | < 1 |
| trans-1,3-Dichloropropene | < 1 |
| Ethylbenzene | < 1 |
| Methylene chloride | < 1 |
| 1,1,2,2-Tetrachloroethane | < 1 |
| Tetrachloroethene (PCE) | 2.4 |
| 1,1,1-Trichloroethane | < 1 |
| 1,1,2-Trichloroethane | < 1 |
| Trichloroethene | < 1 |
| Trichlorofluoromethane | < 1 |
| Toluene | < 1 |
| Vinyl chloride | < 1 |

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

**SEQUOIA** Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

City of Scotts Valley
370 Kings Valley Road
Scotts Valley, CA 95066
Attn: Paul Rieth

Date Sampled: 03/04/85
Date Received: 03/04/85
Date Extracted: -
Date Reported: 03/25/85

Sample Number
503044

Sample Description
24 Hr. Composite
Effluent

## BASE/NEUTRAL EXTRACT ORGANICS
results in ppb

| | | | |
|---|---|---|---|
| Acenaphthene | < 1 | Diethylphthalate | < 1 |
| Acenaphthylene | < 1 | Dimethylphthalate | < 1 |
| Anthracene | < 1 | Dioctylphthalate | < 1 |
| Benzo (a) anthracene | < 1 | Di-n-butylphthalate | 1.1 |
| Benzo (b) fluoranthene | < 1 | Isophorone | 5.7 |
| Benzo (k) fluoranthene | < 1 | Benzidine | <10 |
| Benzo (a) pyrene | < 1 | 2,4-Dinitrotoluene | < 1 |
| Benzo (g,h,i) perylene | < 1 | 2,6-Dinitrotoluene | < 1 |
| Chrysene | < 1 | 1,2-Diphenylhdrazine | < 1 |
| Dibenzo (a,h) anthracene | < 1 | Nitrobenzene | < 1 |
| Fluoranthane | < 1 | N-Nitrosodimethylamine | < 1 |
| Fluorene | < 1 | N-Nitrosodi-n-propylamine | < 1 |
| Indeno (1,2,3-cd) pyrene | < 1 | N-Nitrosodiphenylamine | < 1 |
| Naphthalene | < 1 | 2-Chloronaphthalene | < 1 |
| Phenanthrene | < 1 | 1,3-Dichlorobenzene | < 1 |
| Pyrene | < 1 | 1,4-Dichrlorbenzene | 2.5 |
| Bis (2-chloroethyl) ether | < 1 | 1,2-Dichlrorbenzene | 7.6 |
| Bis (2-chloroethoxy) methane | < 1 | 3,3-Dichlorobenzidine | <10 |
| Bis (2-ethylhexyl) phthalate | < 1 | Hexachlorobenzene | < 1 |
| Bis (2-chloroisopropyl) ether | < 1 | Hexachlorobutadiene | < 1 |
| 4-Bromophenyl phenyl ether | < 1 | Hexachloroethane | < 1 |
| Butyl benzyl phthalate | < 1 | Hexachlorocyclopentadiene | < 1 |
| 4-Chlorophenyl phenyl ether | < 1 | 2,3,7,8-Tetrachlorodibenzo-p-dioxin | < 1 |
| | | 1,2,4-Trichlorobenzene | < 1 |

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

**SEQUOIA** Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

City of Scotts Valley
370 Kings Valley Road
Scotts Valley, CA 95066
Attn: Paul Rieth

Date Sampled: 03/04/85
Date Received: 03/04/85
Date Extracted: -
Date Reported: 03/25/85

| Sample Number | Sample Description |
|---|---|
| 503044 | 24 Hr. Composite Effluent |

ACID EXTRACT ORGANICS
results in ppb

| | |
|---|---|
| 4-Chloro-3-methylphenol | < 1 |
| 2-Chlorophenol | < 1 |
| 2,4-Dichlorophenol | < 1 |
| 2,4-Dimethylphenol | < 1 |
| 2,4-Dinitrophenol | < 5 |
| 2-Methyl-4,6-dinitrophenol | < 5 |
| 2-Nitrophenol | < 1 |
| 4-Nitrophenol | <10 |
| Pentachlorophenol | 16 |
| Phenol | < 1 |
| 2,4,6-Trichlorophenol | < 1 |

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Attn: Paul Rieth

Date Sampled: 03/04/85
Date Received: 03/04/85
Date Extracted: -
Date Reported: 03/25/85

| Sample Number | Sample Description |
|---|---|
| 503044 | 24 Hr. Composite Effluent |

## PESTICIDE AND PCB COMPOUNDS
results in ppb

| | |
|---|---|
| Aldrin | < 1 |
| α-BHC | < 1 |
| β-BHC | < 1 |
| δ-BHC | < 1 |
| γ-BHC | < 1 |
| Chlordane | < 1 |
| 4,4-DDD | < 1 |
| 4,4-DDE | < 1 |
| 4,4-DDT | < 1 |
| Dieldrin | < 1 |
| Endosulfan 1 | < 1 |
| Endosulfan 11 | < 1 |
| Endosulfan Sulfate | < 1 |
| Endrin | < 1 |
| Endrin Aldehyde | < 1 |
| Heptachlor | < 1 |
| Heptachlor Epoxide | < 1 |
| Toxaphene | < 1 |
| PCB-1016 | < 1 |
| PCB-1221 | < 1 |
| PCB-1232 | < 1 |
| PCB-1242 | < 1 |
| PCB-1248 | < 1 |
| PCB-1254 | < 1 |
| PCB-1260 | < 1 |

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Redwood City, CA 94063 • (415) 364-9222

City of Scotts Valley
370 Kings Valley Road
Scotts Valley, CA 95066
Attn: Paul Rieth

Date Sampled: 03/04/85
Date Received: 03/04/85
Date Extracted: -
Date Reported: 03/25/85

| Sample Number | Sample Description |
|---|---|
| 503052 | Effluent Grab |

## PESTICIDE AND PCB COMPOUNDS
results in ppb

| | |
|---|---|
| Aldrin | < 1 |
| α-BHC | < 1 |
| β-BHC | < 1 |
| δ-BHC | < 1 |
| γ-BHC | < 1 |
| Chlordane | < 1 |
| 4,4-DDD | < 1 |
| 4,4-DDE | < 1 |
| 4,4-DDT | < 1 |
| Dieldrin | < 1 |
| Endosulfan 1 | < 1 |
| Endosulfan 11 | < 1 |
| Endosulfan Sulfate | < 1 |
| Endrin | < 1 |
| Endrin Aldehyde | < 1 |
| Heptachlor | < 1 |
| Heptachlor Epoxide | < 1 |
| Toxaphene | < 1 |
| PCB-1016 | < 1 |
| PCB-1221 | < 1 |
| PCB-1232 | < 1 |
| PCB-1242 | < 1 |
| PCB-1248 | < 1 |
| PCB-1254 | < 1 |
| PCB-1260 | < 1 |

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Redwood City, CA 94063 • (415) 364-9222

City of Scotts Valley
370 Kings Valley Road
Scotts Valley, CA 95066
Attn: Paul Rieth

Date Sampled: 03/04/85
Date Received: 03/04/85
Date Extracted: -
Date Reported: 03/25/85

| Sample Number | Sample Description |
|---|---|
| 503051 | Influent Grab |

PESTICIDE AND PCB COMPOUNDS
results in ppb

| | |
|---|---|
| Aldrin | < 1 |
| α-BHC | < 1 |
| β-BHC | < 1 |
| δ-BHC | < 1 |
| γ-BHC | < 1 |
| Chlordane | < 1 |
| 4,4-DDD | < 1 |
| 4,4-DDE | < 1 |
| 4,4-DDT | < 1 |
| Dieldrin | < 1 |
| Endosulfan 1 | < 1 |
| Endosulfan 11 | < 1 |
| Endosulfan Sulfate | < 1 |
| Endrin | < 1 |
| Endrin Aldehyde | < 1 |
| Heptachlor | < 1 |
| Heptachlor Epoxide | < 1 |
| Toxaphene | < 1 |
| PCB-1016 | < 1 |
| PCB-1221 | < 1 |
| PCB-1232 | < 1 |
| PCB-1242 | < 1 |
| PCB-1248 | < 1 |
| PCB-1254 | < 1 |
| PCB-1260 | < 1 |

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Laboratory Director

**SEQUOIA** Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

RECEIVED

MAR 28 1985

CITY OF SCOTTS VALLEY

City of Scotts Valley
370 Kings Valley Road
Scotts Valley, CA 95066
Attn: Paul Rieth

Date Sampled: 03/04/85
Date Received: 03/04/85
Date Reported: 03/25/85

| Sample Number | Sample Description |
|---|---|
| 503044 | 24 Hr. Composite Effluent |

VOLATILE ORGANIC COMPOUNDS
results in ppb

| | |
|---|---|
| Acrolein | <100 |
| Acrylonitrile | <100 |
| Benzene | < 1 |
| Bromomethane | < 1 |
| Bromodichloromethane | < 1 |
| Bromoform | < 1 |
| Carbon Tetrachloride | < 1 |
| Chlorobenzene | < 1 |
| Chloroethane | < 1 |
| 2-Chloroethylvinyl ether | < 1 |
| Chloroform | 18 |
| Chloromethane | < 1 |
| Dibromochloromethane | < 1 |
| 1,1-Dichloroethane | < 1 |
| 1,2-Dichloroethane | < 1 |
| 1,1-Dichloroethene | < 1 |
| trans-1,2-Dichloroethane | < 1 |
| 1,2-Dichloropropane | < 1 |
| cis-1,3-Dichloropropene | < 1 |
| trans-1,3-Dichloropropene | < 1 |
| Ethylbenzene | < 1 |
| Methylene chloride | < 1 |
| 1,1,2,2-Tetrachloroethane | < 1 |
| Tetrachloroethene | < 1 |
| 1,1,1-Trichloroethane | < 1 |
| 1,1,2-Trichloroethane | < 1 |
| Trichloroethene | < 1 |
| Trichlorofluoromethane | < 1 |
| Toluene | < 1 |
| Vinyl chloride | < 1 |

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CITY OF SCOTTS VALLEY

City of Scotts Valley
370 Kings Valley Road
Scotts Valley, CA 95066
Attn: Paul Rieth

Date Sampled: 03/04/85
Date Received: 03/04/85
Date Reported: 03/25/85

| Sample Number | Sample Description |
|---|---|
| 503051 | Influent Grab |

VOLATILE ORGANIC COMPOUNDS
results in ppb

| | |
|---|---|
| Acrolein | <100 |
| Acrylonitrile | <100 |
| Benzene | < 1 |
| Bromomethane | < 1 |
| Bromodichloromethane | < 1 |
| Bromoform | < 1 |
| Carbon Tetrachloride | < 1 |
| Chlorobenzene | < 1 |
| Chloroethane | < 1 |
| 2-Chloroethylvinyl ether | < 1 |
| Chloroform | 5.7 |
| Chloromethane | < 1 |
| Dibromochloromethane | < 1 |
| 1,1-Dichloroethane | < 1 |
| 1,2-Dichloroethane | < 1 |
| 1,1-Dichloroethene | < 1 |
| trans-1,2-Dichloroethane | < 1 |
| 1,2-Dichloropropane | < 1 |
| cis-1,3-Dichloropropene | < 1 |
| trans-1,3-Dichloropropene | < 1 |
| Ethylbenzene | < 1 |
| Methylene chloride | < 1 |
| 1,1,2,2-Tetrachloroethane | < 1 |
| Tetrachloroethene | < 1 |
| 1,1,1-Trichloroethane | < 1 |
| 1,1,2-Trichloroethane | < 1 |
| Trichloroethene | < 1 |
| Trichlorofluoromethane | < 1 |
| Toluene | < 1 |
| Vinyl chloride | < 1 |

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

4211

021-011-32, sysno 01,

Santa Cruz County
Health Services Agency
Environmental Health Service

701 Ocean Street, Room 312
Santa Cruz, CA 95060
(408) 425- 2341

**SEPTIC TANK PUMPING AND INSPECTION REPORT**

Pumper Name: Peters Out-Flow Tech Inspection Date: 9-29-90

Job Location: 263 Mt Herman Rd APN: 21-011-32

Job City: Scotts Valley Ca.

Owner: Sandy Giel Address: 263 Mt Herman Rd SC.

Requested by: Owner Address: Same

Reason for pumping/inspection: Maintenance X Haulaway System ____

Sale Inspection ____ System Failure ____ Other ____

Property Use: Home ____ Other Golf Course Occupied? Yes X No ____

SLUDGE DISPOSAL LOCATION: Watsonville

**********

SEPTIC TANK SIZE: 1500 GALLONS PUMPED: 1500

TYPE: REDWOOD ___ CONCRETE X FIBERGLASS ___ OTHER ____

| CONDITION OF TANK: | Good | Fair | Poor | Repairs Recommended | Repairs Completed |
|---|---|---|---|---|---|
| Septic ells/tees | East X | | Back X | X | |
| Tank top and/or lids | X | | | | |
| Sides/bottom of tank | X | | | | |
| Baffles | X | | | | |

OPERATIONAL LEVEL: High ___ Low ___ Normal X Date Last Pumped: 89

**********

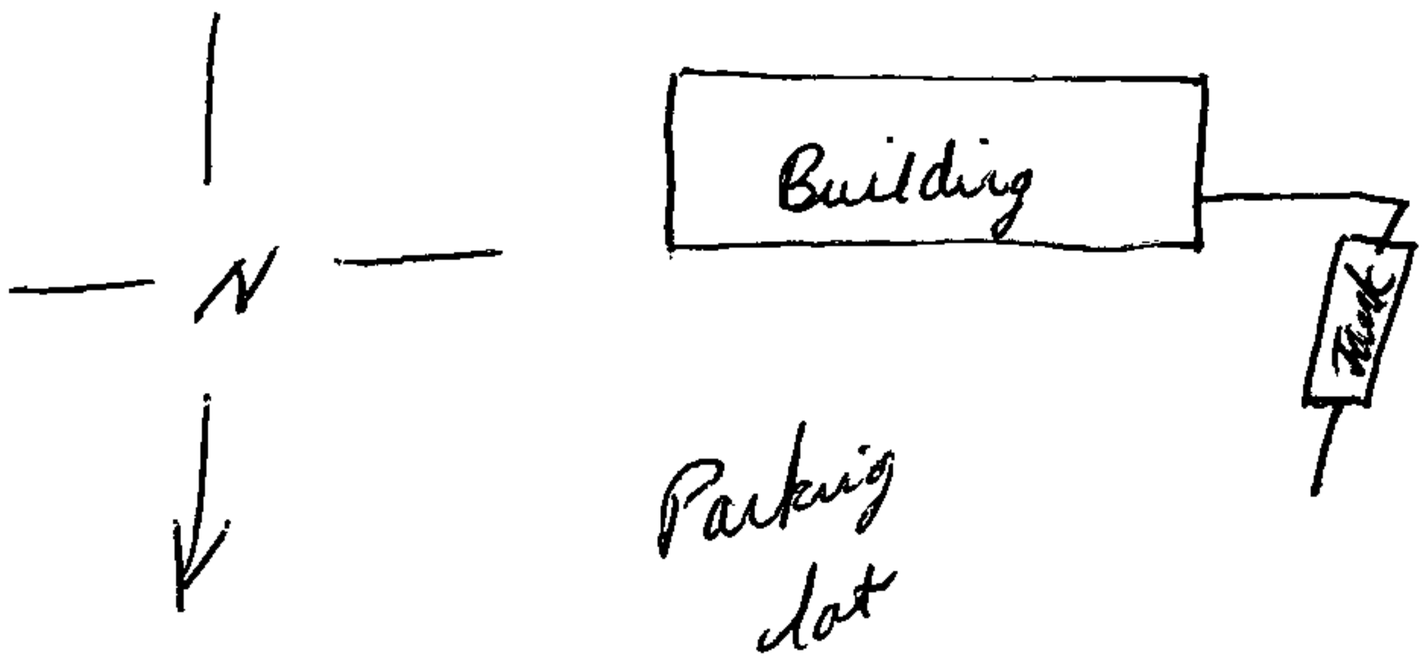
LEACHING SYSTEM

| | | | | | | |
|---|---|---|---|---|---|---|
| Present or past high level in tank | YES ____ | NO X | | | | |
| Liquid flowback while pumping? | YES ____ | NO X | | | | |
| Signs of Surfacing Effluent? | YES ____ | NO X | | | | |
| Separate Greywater Discharge? | YES ____ | NO X | To Sump ___ | | Onto Ground ___ | |

OTHER SYSTEM COMPONENTS/NOTES: ____

**********

SYSTEM LOCATION (Sketch or describe, with dimensions and direction of north)




DISTRIBUTION: • White & Yellow-EHS File • Pink-Owner • Goldenrod-Pumper

HSA-403 (REV. 4/90)

FOR TAX PURPOSES ONLY

# CITY OF SCOTTS VALLEY

Tax Area Code
4-002
4-003

21-01

TRACT NO. 776
ROLLING GREEN PATIO HOMES
64-M-26 UNIT NO. 2 2-3-77

TRACT NO. 688 ROLLING GREEN PATIO HOMES
9-8-76
62-M-73

9-PM-51
1-11-73

9 PM 50
1-11-73

40-PM-62
5-13-82

CANCELLED
DATE 11-21-83
NEW MAP NO. 21-01

Bk.67 03
Bk.67 04
Bk.22 23
Bk.70 29
Bk.22 21

Scotts Valley City Limits

LOCKEWOOD LANE

MT. HERMON RD.

PRIVATE ROAD

P.S.E.

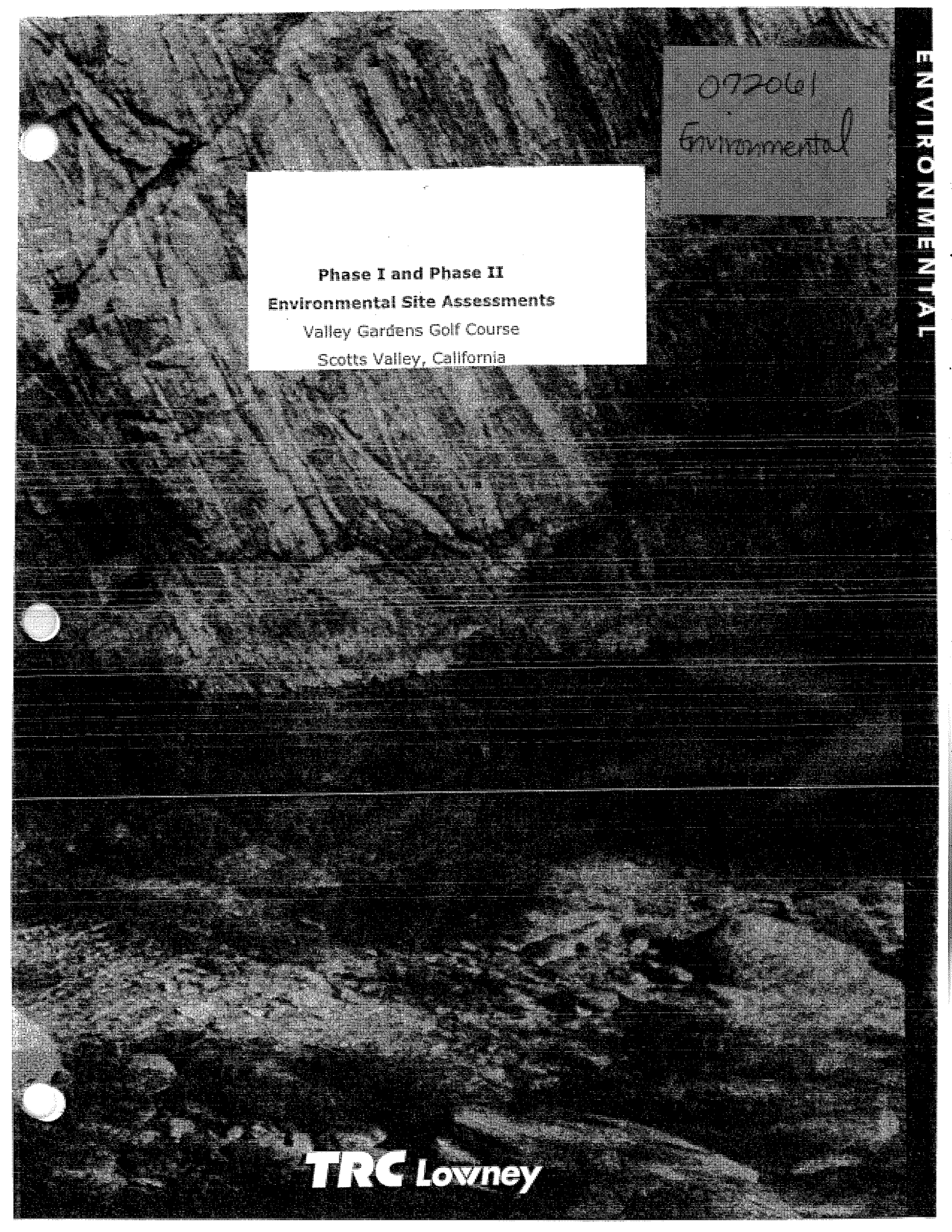
SEE INSERT AT RIGHT

SEE ENLARGEMENT AT UPPER LEFT FOR THIS AREA

Match Line

Note - Assessor's Parcel Block & Lot Numbers Shown in Circles

Assessor's Map No. 21-01
City of Scotts Valley
County of Santa Cruz, Calif.
Feb. 1967




092061
Environmental

**Phase I and Phase II**
**Environmental Site Assessments**
Valley Gardens Golf Course
Scotts Valley, California

TRC Lowney

TRC Lowney

**Phase I and Phase II**

**Environmental Site Assessments**

Valley Gardens Golf Course

Scotts Valley, California

This report has been prepared for:

**Ponderosa Homes**

6671 Owens Drive, Pleasanton, California 94588-3398

March 15, 2006

Project No. 247-26/247-26B


Christopher M. Vertin
Senior Staff Engineer

Belinda P. Blackie, P.E., R.E.A.
Senior Project Engineer

Thomas F. McCloskey, P.G., C.E.G., C.HG.
Principal Geologist


CERTIFIED ENGINEERING GEOLOGIST
THOMAS F. McCLOSKEY
No. 1861
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E-mail: mail@lowney.com http://www.lowney.com

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APPENDIX B — QUESTIONNAIRE
APPENDIX C — HISTORIC AERIAL PHOTOGRAPHS AND MAPS
APPENDIX D — CITY DIRECTORIES REPORT
APPENDIX E — CITY AND COUNTY DOCUMENTS
APPENDIX F — REGULATORY AGENCY DATABASE REPORT
APPENDIX G — SOIL SAMPLING PROTOCOL
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# PHASE I AND PHASE II
# ENVIRONMENTAL SITE ASSESSMENTS
# VALLEY GARDENS GOLF COURSE
# SCOTTS VALLEY, CALIFORNIA

## 1.0 INTRODUCTION

### 1.1 Purpose

This Phase I and Phase II environmental site assessment was performed for Ponderosa Homes, who we understand is considering the purchase and redevelopment of the site located at 263 Mt. Hermon Road and 475 Lockewood Lane in Scotts Valley, California, as shown on Figures 1 and 2. The planned development includes single-family homes.

The purpose of this study was to strive to document recognized environmental conditions at the site related to current and historic use of hazardous substances and petroleum products. The term "recognized environmental conditions" means the presence or likely presence of hazardous substances or petroleum products on a property under conditions that indicate a significant release or significant threat of a release into the ground, ground water, or surface water.

### 1.2 Scope of Work

As requested, the Phase I scope of work for this study was performed in general accordance with the American Society for Testing and Materials (ASTM) Designation E 1527-00, and as outlined in our agreements dated December 2, 2005, December 23, 2005 and January 17, 2006. The Phase I and Phase II scopes of work included the following tasks:

- Reconnaissance of the site and limited drive-by survey of adjacent properties for readily observable indications of current or historic activities that have impacted or could significantly impact the site.
- Review of readily available topographic maps and reports to evaluate local hydrogeologic conditions including anticipated ground water depth and flow direction.
- Review of readily available documents, maps, and aerial photographs, and interviews with knowledgeable persons to evaluate past land uses.
- Acquisition and review of a regulatory agency database report to evaluate potential impacts to the site from reported contamination incidents at nearby facilities.
- Review of available regulatory agency files to obtain information about the use and storage of hazardous materials at the site.

- Collection of surface soil samples randomly located on the fairways and tee boxes of the golf course, and laboratory analysis of these samples for organochlorine pesticides and related metals.
- Supplemental soil sampling to determine the vertical and lateral extent of soil contamination at one of the sampling locations.
- Collection of one 3-point composite surface soil sample located in an area that was historical developed and laboratory analysis for organochlorine pesticide and related metals.
- Collection of one 2-point composite surface soil sample located adjacent to a water supply well and laboratory analysis for organochlorine pesticide and related metals.
- Collection of one 2-point composite surface soil sample from the stained area at the corporation yard and laboratory analysis for a number of potential contaminants.

The limitations of this environmental site assessment are presented in Section 7.0; the terms and conditions of our agreement are presented in Appendix A.

## 2.0 SITE RECONNAISSANCE

### 2.1 Site Location and Ownership

The site is located at 263 Mt. Hermon Road and 475 Lockewood Lane in Scotts Valley, California, in a commercial and residential area. It is bounded by Mt. Hermon Road and commercial businesses to the north, residential development to the south, Lockewood Lane and residential development to the west, and residential development and a mobile home park to the east. The site is owned by Sandy Woodruff, who reportedly purchased the property in 1971. Site location and ownership information is shown in Table 1.

**Table 1. Site Information**

| Site Address | APNs | Approx. Acreage | Site Owner | Approx. Sq. Footage of Buildings |
|---|---|---|---|---|
| 263 Mt. Hermon Road (pro shop), and 475 Lockewood Lane (caretaker's residence and corporation yard) | 021-011-34 021-221-02 021-231-02, -04, -07, and -08 | 30 | Sandy Woodruff | Total square footage of pro shop, residence, and maintenance facility is 3,000 sf. |

### 2.2 Topographic Features and Hydrogeology

Based on U.S. Geological Survey (USGS) topographic maps, the site elevation ranges from approximately 450 to 550 feet above mean sea level. Topography in the vicinity

of the site slopes moderately to the north by northeast following the topography of the Santa Cruz Mountains. Based on a report previously prepared for the site by others, the shallow water-bearing zone likely is encountered at depths of approximately 20 feet beneath the site (Ecology and Environment, Inc., 1985). Ground water beneath the site reportedly flows to the northeast (Ecology and Environment, Inc., 1985), but once it reaches the valley floor immediately north of the site, it likely flows south to southwest towards the Monterey Bay.

## 2.3 Site Visit

To observe current site conditions, our representative, environmental engineer Belinda Blackie, P.E., R.E.A., visited the site on December 14, 2005 and was accompanied by Mr. Steve Woodruff, superintendent for Valley Gardens Golf Course. At the time of our site visit, the subject property was developed with the Valley Gardens Golf Course, a nine-hole golf course with associated pro shop/snack bar, pump shed, caretaker's residence, and corporation yard.

### 2.3.1 Caretaker's Residence

The caretaker's residence was located on the far southwestern portion of the site, adjacent to Lockewood Lane (Figure 2). The interior of the residence was not observed, but consisted of a one-story single-family residence with a small fenced yard. Observation of the yard did not reveal the presence of significant quantities of hazardous materials.

### 2.3.2 Corporation Yard

The corporation yard was located adjacent to the caretaker's residence (Figure 4) and included a wood-framed garage/shop structure on a concrete slab and an adjacent lean-to structure, also constructed on concrete. Beneath the overhang at the northern end of the lean-to structure was a concrete bermed hazardous materials storage area. One 350-gallon diesel aboveground storage tank (AST), two 55-gallon drums of diesel, approximately fifteen 5-gallon containers of assorted vehicle maintenance chemicals (including tractor hydraulic fluid), and a small plastic garbage can holding used oil filters were observed within the bermed storage area. The concrete floor within the bermed area was difficult to observe as the containers mostly covered it, but there appeared to be some staining of the concrete. Several 1- and 5-gallon plastic gasoline containers were observed on the secondary containment berm and on the concrete floor just outside the berm, as was one 5-gallon container of gasoline and three 5-gallon containers of oil; three 1-quart bottles of motor oil and one vehicle battery were present on a wooden shelf outside the secondary containment area. One cylinder of oxygen and a smaller cylinder of acetylene, both significantly rusted, were chained to a rusted cart beneath the overhang as well. Light staining of the concrete outside the bermed area was observed.

Adjacent to the bermed area and adjacent chemicals, a tractor mower and other groundskeeping equipment were parked on the soil surface beneath the southern end of the lean-to. Soil beneath this equipment appeared darkened, but may have been wet. Four 5-gallon containers of "Over-Kote" asphalt crack repair were observed on a

wooden shelf beneath a woodwork bench adjacent to the lean-to. The soil beneath and around the workbench was darkened, but appeared likely to be wet.

The garage portion of the garage/shop building housed several parked groundskeeping vehicles and assorted tools. Some staining of the concrete floor was observed. A locked, wooden cabinet located on a wood pallet at the back of the garage was observed to contain approximately 50 containers, ranging from 1 quart to 3 gallons each in volume, of gopher poison, algaecide for the reservoir, fungicides, and herbicides. Some minor staining of the shelves within the cupboard was observed. Three 2-gallon containers of liquid fertilizer and two 2½-gallon bottles of liquid fertilizer within a box were observed on a woodwork bench adjacent to the storage cabinet. One open bag of "Scott's ProTurf" insecticide was also present on the workbench. Adjacent to the workbench, approximately twenty to thirty 75-pound bags of solid fertilizer, calcium sulfate, turf food, and grass seed were observed on the concrete slab floor and shelving units at the rear of the garage.

Within the shop portion of the building was a wooden workbench, above which were stored approximately thirty 1-quart to ½-gallon containers of assorted automotive repair chemicals (including degreaser and motor oil). Additional shelving at the rear of the shop housed approximately thirty 1-quart to 1-gallon containers of assorted paints, spray paints, and thinners. No significant staining of the concrete floor was observed in the shop.

### 2.3.3 Reservoirs and Pump House

Two small reservoirs were observed near the center of the site (Figure 2). Between the reservoirs was a small wooden pump house with a gravel floor. Two irrigation pumps, booster pumps, associated aboveground piping, an irrigation water filter, a fountain controller (for the fountain in one of the reservoirs), and a 1,000-gallon water AST were present within the pump house. Moderate staining of the gravel floor was observed.

### 2.3.4 Other On-Site Features

The portion of the site immediately south of Mt. Hermon Road was an asphalt-paved parking lot. One steel storage container (access unavailable) and one small wooden shed in which hazardous materials were not observed, were present at the edge of the parking lot. Immediately south/southeast of the parking lot was a putting practice area and a small driving range enclosed within netting. West of these areas was a pre-fabricated building housing the office, pro shop, and snack bar. The snack bar included a small, residential-like kitchen area with a small stove/oven, sink, and refrigerator. Hazardous materials were not observed within a fenced storage area to the west of the pro shop building.

The remainder of the site was developed with the fairways and greens of the nine-hole golf course. Trees were scattered about the course, with thick trees present in one area immediately southwest of the pro shop. One irrigation water supply well was located near the middle of the course, just west of the reservoirs (Figure 2).

One dirt pathway ran from the pro shop building south to the corporation yard.

Additional observed site features are listed in Table 2.

**Table 2. Additional Readily Observable Site Features**

| Site Features | | | | Comments |
|---|---|---|---|---|
| Heating/Ventilation/Air Conditioning System | ☒ Natural Gas and/or Electrical<br>☐ Fuel Oil | | | |
| Potable Water Supply | ☒ Municipal | ☐ On-Site Well | | |
| Sewage Disposal Syst. | ☒ POTW | ☒ On-Site Septic | | Currently POTW; historically on septic system. |
| Transformers | ☒ Present<br>☒ PG&E | ☐ Not Observed<br>☐ Privately Owned | | Behind pro shop building. |
| Other Features | ☒ Aboveground Storage Tanks<br>☐ Agricultural Wells<br>☐ Air Emission Control Systems<br>☐ Auto Servicing Areas<br>☐ Boilers<br>☐ Burning Areas<br>☐ Chemical Mixing Areas<br>☐ Clean Rooms<br>☐ Drainage ditches<br>☐ Elevators<br>☐ Emergency Generators<br>☒ Equipment Maintenance Areas<br>☐ Garbage Disposal Areas<br>☐ High Power Transmission Lines<br>☐ Hoods and Ducting<br>☐ Hydraulic Lifts<br>☒ HazMat Storage Areas<br>☐ Petroleum Pipelines<br>☐ Petroleum Wells<br>☒ Ponds or Streams<br>☐ Railroad Lines<br>☐ Row crops or orchards<br>☐ Stockpiles of soil or debris<br>☒ Sumps or clarifiers<br>☐ Underground Storage Tanks<br>☒ Vehicle Maintenance Areas<br>☐ Vehicle Wash Areas<br>☐ Waste Water Neutralization Systems<br>☒ Wells | | | Diesel AST and drums in corporation yard.<br>Groundskeeping equipment maintained in corporation yard.<br>As described in Section 2.3.2 above.<br>Two small reservoirs.<br>Sump in parking lot used to collect storm water runoff and pipe it to on-site reservoirs.<br>Groundskeeping equipment maintained in corporation yard.<br>One irrigation supply well near reservoirs. |

Note: An unchecked box does not warrant that these features are not present on-site; it only states that these features were not readily observed during our site visit.

## 2.4 Site Vicinity Drive-By Survey

To evaluate adjacent land use, we performed a limited drive-by survey. Our observations are presented in Table 3.

**Table 3. Adjacent Properties**

| Business Name and Address | Direction from Site | Observations |
|---|---|---|
| Commercial strip shopping center<br>231, 235, 237, 243, 245, 255, and 256 Mt. Hermon Road | North | Shopping center buildings adjacent to site (255 and 257 Mt. Hermon Road) included McDonald's, Long's Drugs, Safeway, Coffee Cat, a children's center, a credit union, and an optometrist's office. |
| City of Scotts Valley Well #10 | | Water production well within a fenced enclosure. There appeared to be a water treatment system within the enclosure also. |
| Willow Pond Business Park<br>269 Mt. Hermon Road | | Office building with what appeared to be a pond at the rear. |
| Commercial strip shopping center<br>266, 272, and 274 Mt. Hermon Road | | Building immediately across Mt. Hermon Road from site (272 Mt. Hermon Road) included 7-Eleven and Scotts Valley Cleaners. |
| Undeveloped property | | A wooded parcel with debris and garbage strewn about. A small fenced enclosure appeared to house a water pump and treatment system that no longer appeared operational. |
| Residential development | South | Single-family homes |
| Residential development<br><br>Spring Lakes Well/Water AST | West | Single-family homes<br><br>Water supply well and associated water storage AST for Spring Lakes Mobile Home Park located across golf course to east of site. A subgrade pipeline reportedly runs from the AST, across the golf course to the mobile home park. |
| Spring Lakes Mobile Home Park<br><br>Residential development | East | <br><br>Single-family homes |

## 2.5 Interview with Site Occupant/Owner

During our study, we contacted Mr. Steve Woodruff, the current golf course superintendent and son of the current property owner, for general information regarding past and current site usage. Mr. Woodruff was asked to complete a questionnaire; a copy of the completed questionnaire is presented in Appendix B. Mr. Woodruff was also interviewed at the time of our reconnaissance. A summary of the information obtained is presented below.

According to Mr. Woodruff, the golf course was constructed in 1971 and the caretaker's residence and corporation yard shortly after, likely in 1972. He stated that the residence originally was on a septic system, but believed that after the house burned, and when it was rebuilt, it was connected to the City sewer. The residence currently is on the City sewer and Mr. Woodruff did not know if the historic septic system had been removed.

Fuel currently is and historically always has been stored in ASTs and drums; no underground storage tanks (USTs) have been present on-site. The chemical storage areas reportedly are monitored on a weekly basis, with the most recent monitoring performed on December 7, 2005. Chemicals applied to the golf course are done so on an as needed basis and primarily environmentally-friendly chemicals are used. The fairways are sprayed for weeds once to twice per year (approximately 10 acres treated) and fungicides are applied to the approximately 1 acre of putting greens six to eight times per year. Fertilizers are applied to the fairways approximately once per year and to the greens about six-times per year; nitrogen-based fertilizers are used. The reservoirs are treated once to twice per year with algaecides.

In the 1970s, Mr. Woodruff stated that reclaimed wastewater from the City of Scotts Valley was used for irrigation of the golf course. The water was piped through a subgrade pipeline to the on-site reservoirs prior to use for irrigation. This practice has not been in use at the site in quite some time. Currently, the on-site irrigation water production well supplies water, which is pumped to the holding tank within the pump house prior to distribution to the on-site irrigation system.

One PG&E transformer reportedly is located behind the pro shop. The transformer reportedly was installed to convert the power coming on-site from Mt. Hermon Road for use by the irrigation well pump. Finally, Mr. Woodruff stated that a small sump is located in the parking lot for collection of storm water runoff from adjacent Mt. Hermon Road which is at a higher elevation than the parking lot. From the sump, the water is pumped with a sump pump through a small subgrade pipeline to the on-site reservoirs.

# 3.0 HISTORICAL REVIEW

## 3.1 Photograph and Map Review

To evaluate the site history, we reviewed the following:

- Aerial photographs (dated 1948, 1964, 1982, 1993, and 1998) from Environmental Data Resources, Inc. (EDR) in Millford, Connecticut.

- USGS 15-minute and 7.5-minute topographic maps (dated 1902, 1948, 1955, 1968, 1980, 1991, and 1998).
- Historic Sanborn fire insurance maps were requested from EDR. However, no Sanborn maps were available.

The above maps and photographs commonly provide historical information regarding a site including land uses and changes in development over time. Copies of these maps and photographs are presented in Appendix C. The following is a summary of our observations for the site and site vicinity.

3.1.1 Site

**1902 and 1948:** One small structure was depicted on or near the site on the 1902 topographic map; no other development was depicted. No development was depicted on-site on the 1948 topographic map.

The 1948 aerial photograph showed the site appearing to consist primarily of undeveloped land, possibly grazing land, especially on the northern portion of the site. One structure, appearing likely to be residential, with possibly two or more adjacent smaller structures was visible on the southern-middle portion of the site, near the narrow portion of the site. What appeared to be a dirt road entered the site from the south and traversed the site to the structure. The road continued a short distance to the northeast to a moderate-sized area that appeared to have been cleared/graded. Several small structures or other items appeared present in the graded area. From the graded area, the dirt road continued a short distance farther to the north and then terminated and also forked to the west and connected with a city street outside the site boundaries.

**1955 through 1980:** The topographic maps from this time period showed the site to be largely undeveloped. A dirt road was shown to traverse south onto the middle of the site from Mt. Hermon Road. Three small structures were depicted near the termination of the road. One small reservoir was depicted near the middle of the site during this time period with the larger, current reservoir present by 1980.

The 1964 aerial photograph did not include the far northern portion of the site. As on the 1948 photograph, the majority of the site appeared to be undeveloped grassland with some areas of thick trees. The structure appearing to be residential on the 1948 photograph remained present as it was observed previously, on the southern-middle portion of the site, although it no longer appeared residential. It was large and may have been a barn or other agriculture-related building. The dirt roads present on the 1948 photograph were in different locations, and some no longer were present. A short distance west of the large building was an additional building, this one appearing residential. Just north of the residence was what appeared to be a small pond or reservoir. The cleared/graded area observed on the 1948 photograph appeared to have uneven topography, but no longer appeared to be a cleared/graded area. At what appeared to be the far southwestern corner of the site was a rectangular area appearing possibly to be an agricultural field.

**1982:** The 1982 aerial photograph showed the golf course present on-site. The frontage of the site along Mt. Hermon Road appeared to be a parking lot. One irregularly-shaped reservoir was visible on the northern portion of the site, just south of the adjacent commercial building along Mt. Hermon Road, and a second smaller reservoir was adjacent to the larger. The grass areas of the golf course occupied the majority of the site, with some areas of trees also visible. Small structures may have been present on the site, but the poor resolution of the photograph made it difficult to determine whether features observed were structures, sand traps, or other features.

**1991:** The 1991 topographic map showed the golf course present on-site. The larger reservoir remained near the northeastern corner of the site; the small reservoir present on the previous topographic maps was no longer shown. One to three small buildings were depicted on or immediately adjacent to the site along the northern frontage on Mt. Hermon Road. One additional small building was present along the eastern site boundary at the termination of a road extending onto the site from Lockewood Lane.

**1993:** The 1993 aerial photograph showed the site generally similar to 1982. The smaller reservoir appeared dry. One small building appeared present near the middle of the site, along the eastern boundary. A structure was present in the approximate current location of the pro shop. Buildings were visible in the current location of the caretaker's residence and corporation yard, and the pump house structure between the ponds was also visible. Other structures may have been present elsewhere on the site, but it was unclear if the objects in the photograph were structures, sand traps or other features.

**1998:** The 1998 aerial photograph showed the golf course present on-site. The frontage of the site along Mt. Hermon Road appeared to be an asphalt-paved parking lot. Two reservoirs, one larger and one smaller, were visible on the northern portion of the site, just south of the adjacent shopping center. The grass areas of the golf course occupied the majority of the site with some areas of trees also visible. The pro shop building remained present on the northwestern portion of the site and two small buildings appeared present on the northeastern portion of the site. At least one additional building appeared present near the middle of the site along the eastern boundary. The caretaker's residence and corporation yard buildings appeared obscured by trees.

The 1998 topographic map appeared generally similar to the 1991 topographic map.

3.1.2 Site Vicinity

**1902 and 1948:** The town of Scotts Valley was indicated as Scott Valley on the 1902 and 1948 topographic maps. Small structures were present throughout the site vicinity on these topographic maps. Scotts Valley Drive and Mt. Hermon Road appeared present. The site vicinity appeared sparsely residentially developed on the 1948 aerial photograph, with a majority of the vicinity appearing to be undeveloped land. What appeared possibly to be agricultural fields were present to the east of the site. An airport with one runway was visible to the north of Mt. Hermon Road on the 1948 map. The Camp Evers residential area was shown to the east of the site on the 1948 map as well.

**1955 through 1980:** The topographic maps from this time period showed the site vicinity to be residential to the west, south, and east. The 1964 aerial photograph showed the site vicinity to remain rural and residentially developed. Residences scattered amongst the trees were present to the west and south with what appeared to be agricultural fields to the east. On the topographic maps, what appeared likely to be commercial buildings were depicted along Mt. Hermon Road. Skypark Airport was depicted north of the site and Camp Evers was depicted east of the site.

**1982 through 1998:** The aerial photographs and topographic maps from this time period showed the site vicinity to be primarily residentially developed, with commercial development adjacent to Mt. Hermon Road. Commercial development in the area increased dramatically between 1982 and 1998. A large trailer park was present to the east of the site. Skypark Airport was visible north of the site on the aerial photographs, but appeared to have been no longer in use or in limited use by the 1990s as the hangars had been removed. A gravel pit with several ponds was depicted to the west, a small pond was depicted immediately northwest, and sewage disposal was indicated to the southeast of the site on the 1991 and 1998 topographic maps.

### 3.2 City Directories

Our review of available city directories obtained from EDR suggested that the only site tenant was the current golf course. Listed past site occupants are presented in Table 4, and the EDR report is presented in Appendix D.

**Table 4. Reported Past Site Occupants**

| Year | Occupant |
|---|---|
| 1970 - 1980 | Street not listed in directories |
| 1985 | Address not listed in directories |
| 1990 - 2005 | Scotts Valley Golf Course/<br>Valley Gardens Golf Course |

## 4.0 REGULATORY RECORDS

### 4.1 City and County Agencies File Review

To obtain information on hazardous materials usage and storage, we requested readily available information at the Scotts Valley Building Department (SVBD), Scotts Valley Fire Department (SVFD), and Santa Cruz County Environmental Health Department (SCCEHD) pertaining to current addresses 263 Mt. Hermon Road and 475 Lockewood Lane and possible historic address 658 Mt. Hermon Road, in Scotts Valley, Santa Cruz County, California. According to a representative of the SVFD, the agency had no hazardous materials files for the site. The information made available to us by the SVBD and SCCEHD is summarized in Table 5; key documents are included in Appendix E.

## Table 5. Available File Review Information

| Agency | Date | Entity | Remarks |
|---|---|---|---|
| SVBD | 4/28/71 | Valley Gardens Golf Course | Building permit for pro shop building (described as a coach with an awning). |
| SVBD | 4/10/72 | Valley Gardens Golf Course | Building department inspection record for "Scotts Valley Golf" driving range at 658 Mt. Hermon Road. |
| SVBD | 7/1/74 | Valley Gardens Golf Course | Building permit to construct one 20-foot by 45-foot storage building. |
| SVBD | 5/27/77 | Valley Gardens/Steve Barath | Application to construct a water well for irrigation. Well to be located 100 feet from an existing septic system. |
| SVBD | 10/11/78 | Valley Gardens/Steve Barath | Letter from City of Scotts Valley to Steve Barath of Valley Gardens regarding delivery of City wastewater effluent to the golf course. Letter indicated that effluent was not received by the golf course during the winter months. |
| SVBD | 3/4/83 | Valley Gardens: Sandy Woodruff/Sharon Adams | Permit to drill existing well deeper. Permit expired 9/4/83 with no action noted. |
| SCCEHD | 9/17/85 | Valley Gardens Golf Course | See summary of document following Table 5. |
| SVBD | 11/13/90 | Sandy Woodruff-Gill | Building permit for on-site improvements and foundation for modular building. Sewer hook-up included. Permit expired 7/16/91 with no action noted. |
| SVBD | 7/29/91 | Valley Gardens | Building permit for new sign. |
| SVBD | 8/28/95 | Sandy Woodruff | Reactivation of building permit for site improvements and foundation and sewer hook up for modular building. |
| SVBD | 9/30/96 | Sandra Woodruff | Building permit to install telephone poles. |
| SVBD | 10/7/96 | Sandra Woodruff | Building permit to install golf ball barrier netting between Valley Gardens and the adjacent Spring Lakes development. |
| SVBD | 2/6/97 | Valley Gardens/Sally Woodruff | Building permit for gas line for a heater for on-site residence. |
| SVBD | 11/4/98 | Sandy Woodruff | Building permit for hitting cage for driving range. |

The report available at the SCCEHD was a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) site investigation performed of the Valley Gardens Golf course by a subcontractor for the United States Environmental Protection Agency (EPA) in 1985 (Ecology and Environment, Inc., 1985). Although the address of the site as presented in the report was incorrect, based on information from the SCCEHD the report was prepared for the project site.

The CERCLA investigation reportedly was performed in an attempt to determine the sources of toxic contamination entering the Santa Margarita aquifer which reportedly underlies the site. Based on information provided in the report, an unknown volume of secondarily-treated effluent (including extended aeration and chlorination) from the Scotts Valley Treatment Plan (SVTP) was discharged into the on-site reservoirs from 1967 until 1983. Following discharge of the wastewater into the reservoirs, it reportedly was used for irrigation of fairways and greens. Various volatile organic contaminants and cyanide reportedly were detected in sanitary sewage influent and effluent from the City of Scotts Valley in 1985 or 1986. Analysis of the water discharged to Valley Gardens reportedly never was analyzed for organic contaminants or cyanide. The report could not conclude whether on-site contamination with volatile organic contaminants or cyanide had occurred as the result of the discharge of the treated wastewater. The report recommended that the site be given "special consideration in future ground water sampling plans and remedial investigations developed as part of the Santa Margarita/Scotts Valley Contamination Study."

## 4.2 Scotts Valley Water District

To obtain information on potential ground water contamination issues in the immediate site vicinity, we contacted the Scotts Valley Water District (SVWD). According to a representative of the SVWD, production "Well 10" is located adjacent and north of the site and has an associated treatment system for removal of iron, manganese, phosphate, and hydrogen sulfide as well as for pH adjustment. Volatile organic compounds (VOCs), including benzene and perchloroethylene (PCE), reportedly have not been detected in Well 10 and are monitored for on a approximately weekly basis. The representative stated that a monitoring well located approximately 250 feet north of the site (generally down-gradient with respect to the anticipated ground water flow direction from the site) contained about 10 parts per billion (ppb) of PCE and also dichloroethane (DCA) in May 2005 and 2.7 ppb of PCE during a fall 2005 monitoring event.

## 4.3 Regulatory Agency Database Report

During this study, a regulatory agency database report was obtained and reviewed to help establish whether contamination incidents have been reported in the site vicinity. A list of the database sources reviewed, a detailed description of the sources, and a radius map indicating the location of the reported facilities relative to the project site are presented in Appendix F.

The project site was listed in the database report as being on the CERCLIS-NFRAP database. The CERCLIS-NFRAP database is maintained by the EPA and includes facilities for which assessments have been performed and "no further remedial action" is needed either because no contamination was found, the release was insignificant,

or the release was cleaned up rapidly. The site reportedly was first assessed in 1985 and was archived in 1991. No further information was provided.

The Watkins-Johnson Company (Stewart Division Plant), located at 440 Kings Village Road, approximately ½ mile north of the site and appearing down- to cross-gradient, was listed on numerous hazardous materials databases, including the EPA's National Priority List (NPL) database. According to information provided in the regulatory agency database report, Watkins Johnson Company impacted ground water and soil in the vicinity of the facility with trichloroethylene (TCE), trichloroethane (TCA), PCE, dichloroethylene (DCE) and Freon from improper handling of hazardous materials. Remedial actions were scheduled to be completed in the summer of 1990. No further information on the status of the Watkins-Johnson facility was provided.

There were no other reported nearby hazardous materials spills or releases with a potential to significantly impact the site. The potential for site impact was evaluated based on information in the database records regarding the type of release, current case status, and distance and direction from the site.

### 4.4 Radon

Studies conducted by the California Department of Health Services (CDHS) at 2,858 sites in California revealed that 3.8 percent had radon levels above 4 picocuries per liter (pCi/l) with the highest known reading at 29 pCi/l. The United States Environmental Protection Agency (EPA) has set a recommended action level at 4 pCi/l.

Radon screening data was available from EDR; the information is included in the regulatory agency database report presented in Appendix F. The California report listed 13 test locations for radon within the site zip code, 95066. Of these 13 sites, none reportedly had radon concentrations exceeding 4 pCi/l. The Federal radon database listed one test site for radon within the site zip code. The reported radon activity detected on the first floor of the test location was 1.5 pCi/l and on the second floor was 1.9 pCi/l, which are both less than the EPA recommended action level of 4 pCi/l.

## 5.0 SOIL QUALITY EVALUATION

### 5.1 Golf Course

#### 5.1.1 Sample Collection and Analyses

To evaluate shallow soil quality, soil sampling was conducted as part of this investigation. On January 3, 2006, under the supervision of Principal Geologist Tom McCloskey, Senior Staff Environmental Engineer Christopher Vertin collected four 2-point composite soil samples (GC-1A, 1B to GC-4A, 4B) on the fairways and the tee boxes associated with four of the nine holes of the golf course at the locations shown on Figure 3. The samples were collected from an approximate depth of surface to ½ foot and were randomly located across the site. These samples were analyzed at a California-certified analytical laboratory for organochlorine pesticides (EPA Test Method 8081A) and lead, arsenic, and mercury (EPA Test Method 6010B/7471A).

Because the highest concentration was detected in the two-point composite from GC-1A/1B, the discrete samples (GC-1A and GC-1B) were then analyzed for organochlorine pesticides. Elevated concentrations were detected in the sample taken from the tee box (GC-1A). Based on this results, discrete samples from two other tee boxes (GC-3A and GC-4A) were also analyzed for organochlorine pesticides.

On February 14, 2006, supplemental soil sampling was performed to determine the vertical and lateral extent of contamination at one sampling location (GC-1A) and to sample previously untested areas. Three step-out samples were collected around the contaminated sampling location. A deeper sample was also collected from the GC-1A location from a depth of 2 to 2½ feet. To evaluate the previously untested areas for elevated pesticide concentrations, 15 supplemental surface soil samples were collected. The samples were collected from the five remaining unsampled tee boxes, near the putting green on all nine of the holes, and near the practice putting green, as shown on Figure 3. These samples were analyzed at a California-certified analytical laboratory for organochlorine pesticides (EPA Test Method 8081A).

### 5.1.2 Analytical Results

The analytical results of the pesticides analyses are presented in Table 6. Only pesticide compounds detected above the laboratory detection limits are presented. Copies of the analytical reports and chain of custody documentation are presented in Appendix H. Of the pesticides detected, only Chlordane exceeded the California Human Health Screening Level (CHHSL) (Cal /EPA, 2005) for residential sites. Heptachlor Epoxide exceeded the United States Environmental Protection Agency (USEPA) (USEPA, 2004) residential Preliminary Remediation Goal (PRG) in one of the soil samples collected.

**Table 6. Golf Course Analytical Results of Surface Soil Samples-Pesticides**
(concentrations in parts per million)

| Sample | 4,4'-DDD | 4,4'-DDE | 4,4'-DDT | Alpha-Chlordane | Chlordane | Gamma-Chlordane | Heptachlor Epoxide |
|---|---|---|---|---|---|---|---|
| GC-1A/1B | 0.049 | <0.008 | <0.008 | 0.099 | **0.710** | 0.065 | 0.0089 |
| GC-1A | <0.010 | <0.010 | <0.010 | 0.190 | **1.3** | 0.140 | 0.049 |
| GC-1A @ 2-2½' | <0.002 | 0.0022 | <0.002 | <0.002 | <0.020 | <0.002 | <0.002 |
| GC-1A-1 | <0.008 | <0.008 | <0.008 | 0.110 | <0.080 | 0.073 | 0.011 |
| GC-1A-2 | <0.002 | <0.002 | 0.0045 | <0.002 | <0.020 | <0.002 | <0.002 |
| GC-1A-3 | <0.006 | <0.006 | <0.006 | 0.046 | <0.060 | 0.027 | 0.013 |
| GC-1B | <0.002 | <0.002 | <0.002 | <0.002 | <0.020 | <0.002 | <0.002 |
| GC-1C | <0.002 | 0.022 | 0.015 | 0.0057 | <0.020 | 0.0082 | 0.004 |
| GC-2A/2B | 0.0031 | <0.002 | <0.002 | <0.002 | <0.020 | <0.002 | <0.002 |
| GC-2C | <0.010 | 0.013 | <0.010 | 0.380 | <0.100 | 0.170 | **0.074** |
| GC-3A/3B | 0.020 | <0.002 | <0.002 | 0.022 | 0.190 | 0.0098 | 0.0045 |
| GC-3A | <0.002 | <0.002 | <0.002 | <0.002 | <0.020 | <0.002 | <0.002 |
| GC-3C | <0.002 | <0.002 | <0.002 | <0.002 | <0.020 | <0.002 | <0.002 |
| GC-4A/4B | 0.014 | <0.002 | <0.002 | 0.014 | 0.230 | 0.0069 | 0.0021 |
| GC-4A | <0.002 | <0.002 | <0.002 | 0.019 | 0.290 | 0.010 | 0.0048 |
| GC-4C | <0.020 | 0.036 | <0.020 | 0.200 | <0.200 | 0.130 | <0.020 |
| GC-5A | <0.002 | 0.0062 | <0.002 | <0.002 | <0.020 | 0.0024 | <0.002 |
| GC-5B | <0.002 | <0.002 | <0.002 | 0.019 | <0.020 | 0.013 | 0.0075 |
| GC-6 | <0.010 | <0.010 | <0.010 | 0.260 | <0.100 | 0.130 | 0.040 |
| GC-7A | <0.002 | <0.002 | <0.002 | <0.002 | <0.020 | <0.002 | <0.002 |
| GC-7B | <0.002 | <0.002 | <0.002 | <0.002 | <0.020 | <0.002 | <0.002 |
| GC-8A | <0.010 | <0.010 | <0.010 | <0.010 | <0.100 | <0.010 | 0.040 |
| GC-8B | <0.002 | 0.0078 | <0.002 | <0.002 | <0.020 | <0.002 | 0.0098 |
| GC-9A | <0.002 | <0.002 | <0.002 | <0.002 | <0.020 | <0.002 | 0.0038 |
| GC-9B | <0.006 | <0.006 | <0.006 | <0.006 | <0.060 | <0.006 | 0.010 |
| GC-10A | <0.002 | <0.002 | <0.002 | <0.002 | <0.020 | <0.002 | <0.002 |
| GC-10B | <0.002 | <0.002 | <0.002 | <0.002 | <0.020 | <0.002 | <0.002 |
| PRG | 2.4 | 1.7 | 1.7 | 1.6* | 1.6 | 1.6* | 0.053 |
| CHHSLs | 2.3 | 1.6 | 1.6 | 0.43* | 0.43 | 0.43* | NE |

< Indicates that the compound was not detected at or above stated laboratory detection limits
PRG Preliminary Remediation Goal for residential site use-EPA Region 9, October 2004
CHHSLs California Human Health Screening Levels in Evaluation of Contaminated Properties, January 2005
NE Not established
* PRG and CHHSL for Chlordane

The analytical results for metals are presented in Table 7. Copies of the analytical reports and chain of custody documentation are presented in Appendix H. Low concentrations of arsenic were detected in two of the four samples. The concentrations detected appear similar to published naturally-occurring concentrations, which range up to 10 ppm (Bradford, et al, 1996). Low concentrations of lead were detected in all of the samples collected. These concentrations appear to be below the published naturally-occurring background concentrations, which range from 13.4 to 19.7 ppm (Bradford, et al,

1996) and do not exceed the health-based regulatory standards or hazardous waste threshold concentrations. Low concentrations of mercury were detected in all of the samples collected. The concentrations detected appear similar to published naturally-occurring concentrations, which range from 0.10 to 0.63 ppm (Bradford, et al, 1996).

**Table 7. Analytical Results of Surface Soil Samples-Metals**
(concentrations in parts per million)

| Sample | Arsenic | Lead | Mercury |
|---|---|---|---|
| GC-1A/1B | 1.7 | 6.3 | 0.37 |
| GC-2A/2B | 1.9 | 4.9 | 0.28 |
| GC-3A/3B | <1.7 | 3.2 | 0.27 |
| GC-4A/4B | <1.7 | 4.9 | 0.35 |
| PRG | 0.39 | 400 | 23 |
| CHHSLs | 0.07 | 150 | 18 |

< Indicates that the compound was not detected at or above stated laboratory detection limits
PRG Preliminary Remediation Goal for residential site use-EPA Region 9, October 2004
CHHSLs California Human Health Screening Levels in Evaluation of Contaminated Properties, January 2005

## 5.2 Caretaker's Residence & Garage/Shop Building

### 5.2.1 Sample Collection and Analyses

One 4-point composite soil sample (SS-1A, 1B, 1C & 1D) was collected from around the garage/shop building in the corporation yard and one 3-point composite soil sample (SS-2A, 2B & 2C) was collected from around the caretaker's residence. The approximate sampling locations are shown on Figure 4. The samples were collected from an approximate depth of surface to ½ foot. These samples were analyzed at a California-certified analytical laboratory for organochlorine pesticides (EPA Test Method 8081A) and lead, arsenic, and mercury (EPA Test Method 6010B/7471A).

### 5.2.2 Analytical Results

The analytical results of the pesticides analyses are presented in Table 8. Copies of the analytical reports and chain of custody documentation are presented in Appendix H. Only the pesticide compounds detected above the laboratory detection limits are presented. None of the detected pesticides exceed the USEPA residential PRGs or the CHHSLs for residential uses.

**Table 8. Analytical Results of Surface Soil Samples-Pesticides**
(concentrations in parts per million)

| Sample | 4,4'-DDD | 4,4'-DDE | 4,4'-DDT | Alpha-Chlordane | Gamma-Chlordane | Dieldrin | Endosulfan Sulfate |
|---|---|---|---|---|---|---|---|
| SS-1A, 1B, 1C, 1D | 0.002 | 0.010 | 0.038 | 0.0041 | 0.0044 | <0.002 | <0.002 |
| SS-2A, 2B, 2C | <0.002 | <0.002 | 0.0042 | <0.002 | <0.002 | 0.0059 | 0.065 |
| PRG | 2.4 | 1.7 | 1.7 | 1.6 | 1.6 | 0.03 | NE |
| CHHSLs | 2.3 | 1.6 | 1.6 | 0.43 | 0.43 | 0.035 | NE |

< Indicates that the compound was not detected at or above stated laboratory detection limits
PRG Preliminary Remediation Goal for residential site use-EPA Region 9, October 2004
CHHSLs California Human Health Screening Levels in Evaluation of Contaminated Properties, January 2005
NE Not established
* PRG and CHHSL for Chlordane

The analytical results of the metal analyses are presented in Table 9. Only metal compounds detected above the laboratory detection limits are presented. Arsenic was not detected in the composite samples collected. Low concentrations of lead were detected in the samples collected. These concentrations appear to be below the published naturally-occurring background concentrations, which range from 13.4 to 19.7 ppm (Bradford, et al, 1996) and do not exceed the health-based regulatory standards or hazardous waste threshold concentrations. Low concentrations of mercury were detected in the samples collected. The concentrations detected appear similar to published naturally-occurring concentrations, which range from 0.10 to 0.63 ppm (Bradford, et al, 1996).

**Table 9. Analytical Results of Surface Soil Samples - Metals**
(concentrations in parts per million)

| Sample | Lead | Mercury |
|---|---|---|
| SS-1A, 1B, 1C, 1D | 8.4 | 0.28 |
| SS-2A, 2B, 2C | 11 | 0.28 |
| PRG | 400 | 23 |
| CHHSLs | 150 | 18 |

< Indicates that the compound was not detected at or above stated laboratory detection limits
PRG Preliminary Remediation Goal for residential site use-EPA Region 9, October 2004
CHHSLs California Human Health Screening Levels in Evaluation of Contaminated Properties, January 2005

## 5.3 Historical Buildings

### 5.3.1 Sample Collection and Analyses

One 3-point composite soil sample (HA-1A, 1B & 1C) was collected in an area of the site that was identified to have been historically developed. The approximate sampling locations are shown on Figure 3. The samples were collected from an

approximate depth of surface to ½ foot. These samples were analyzed at a California-certified analytical laboratory for organochlorine pesticides (EPA Test Method 8081A) and lead, arsenic, and mercury (EPA Test Method 6010B/7471A).

### 5.3.2 Analytical Results

The analytical results of the pesticides and metal analyses are presented in Table 10. Only pesticide and metal compounds detected above the laboratory detection limits are presented. Copies of the analytical reports and chain of custody documentation are presented in Appendix H. Only low concentrations of 4,4'-DDT was detected above the laboratory detection limits. The concentration detected did not exceed the USEPA residential PRGs or the CHHSLs for residential uses.

A potentially elevated concentration of arsenic was detected in the composite sample collected. The concentration appears to be at the high end of naturally-occurring background concentrations of 10 ppm, but greater in concentration than other samples collected across the site. A low concentration of lead was detected in the sample collected. This concentration appears to be below the published naturally-occurring background concentrations, which range from 13.4 to 19.7 ppm (Bradford, et al, 1996) and do not exceed the health-based regulatory standards or hazardous waste threshold concentration. A low concentration of mercury was detected in the sample collected. The concentration detected appear similar to published naturally-occurring concentrations, which range from 0.10 to 0.63 ppm (Bradford, et al, 1996).

**Table 10. Analytical Results of Surface Soil Samples-Pesticides & Metals**
(concentrations in parts per million)

| Sample | 4,4'-DDT | Arsenic | Lead | Mercury |
|---|---|---|---|---|
| HA-1A,1B,1C | 0.0062 | 9.4 | 6.6 | 0.28 |
| PRG | 1.7 | 0.39 | 400 | 23 |
| CHHSLs | 1.6 | 0.07 | 150 | 18 |

< Indicates that the compound was not detected at or above stated laboratory detection limits
PRG Preliminary Remediation Goal for residential site use-EPA Region 9, October 2004
CHHSLs California Human Health Screening Levels in Evaluation of Contaminated Properties, January 2005

## 5.4 Water Supply Well

### 5.4.1 Sample Collection and Analyses

One 2-point composite soil sample (WS-1A, 1B) was collected in the area adjacent to a water supply well. The approximate sampling locations are shown on Figure 3. The samples were collected from an approximate depth of surface to ½ foot. These samples were analyzed at a California-certified analytical laboratory for organochlorine pesticides (EPA Test Method 8081A) and lead, arsenic, and mercury (EPA Test Method 6010B/7471A).

### 5.4.2 Analytical Results

The analytical results of the metal analyses are presented in Table 11. Only metal compounds detected above the laboratory detection limits are presented. Copies of the analytical reports and chain of custody documentation are presented in Appendix H. No pesticide compounds were detected above the laboratory detection limits.

Arsenic was not detected in the composite sample collected. A low concentration of lead was detected in the sample collected. This concentration appears to be below the published naturally-occurring background concentrations, which range from 13.4 to 19.7 ppm (Bradford, et al, 1996) and do not exceed the health-based regulatory standards or hazardous waste threshold concentrations. A low concentration of mercury was detected in the sample collected. The concentration detected appears similar to published naturally-occurring concentrations, which range from 0.10 to 0.63 ppm (Bradford, et al, 1996).

**Table 11. Analytical Results of Surface Soil Samples - Metals**
(concentrations in parts per million)

| Sample | Arsenic | Lead | Mercury |
|---|---|---|---|
| WS-1A, 1B | <1.7 | 3.2 | 0.28 |
| PRG | 0.39 | 400 | 23 |
| CHHSLs | 0.07 | 150 | 18 |

< Indicates that the compound was not detected at or above stated laboratory detection limits
PRG Preliminary Remediation Goal for residential site use-EPA Region 9, October 2004
CHHSLs California Human Health Screening Levels in Evaluation of Contaminated Properties, January 2005

## 5.5 Stained Soil

### 5.5.1 Sample Collection and Analyses

One 2-point composite soil sample (SS-3A, 3B) was collected in the corporation yard in areas where hydrocarbon stained soil was observed. The approximate sampling locations are shown on Figure 4. The samples were collected from an approximate depth of surface to ½ foot. These samples were analyzed at a California-certified analytical laboratory for of organochlorine pesticides (EPA Test Method 8081A), and arsenic, lead, and mercury (EPA Test Method 6010B/7471A), purgeable and extractable hydrocarbons, BTEX and MTBE (EPA Test Method 8015B/8021B and EPA Test Method 8015B with silica gel cleanup).

### 5.5.2 Analytical Results

The analytical results of the pesticides and metal analyses are presented in Table 12. Only pesticide and metal compounds detected above the laboratory detection limits are presented. Copies of the analytical reports and chain of custody documentation are presented in Appendix H. Only low concentrations of 4,4'-DDE , 4,4'-DDT and

Dieldrin were detected exceeding the laboratory detection limits. The concentrations detected did not exceed the USEPA, PRGs or the CHHSLs for residential uses.

Arsenic was not detected in the sample collected. A low concentration of lead was detected in the sample collected. This concentration appears to be less than the published naturally-occurring background concentrations, which range from 13.4 to 19.7 ppm (Bradford, et al, 1996) and do not exceed the health-based regulatory standards or hazardous waste threshold concentrations. A low concentration of mercury was detected in the sample collected. The concentration detected appears similar to published naturally-occurring concentrations, which range from 0.10 to 0.63 ppm (Bradford, et al, 1996).

**Table 12. Analytical Results of Surface Soil Samples-Pesticides & Metals**
(concentrations in parts per million)

| Sample | 4,4'-DDE | 4,4'-DDT | Dieldrin | Lead | Mercury |
|---|---|---|---|---|---|
| SS-3A 3B | 0.014 | 0.013 | 0.003 | 7.6 | 0.30 |
| PRG | 1.7 | 1.7 | 0.03 | 400 | 23 |
| CHHSLs | 1.6 | 1.6 | 0.035 | 150 | 18 |

< Indicates that the compound was not detected at or above stated laboratory detection limits
PRG Preliminary Remediation Goal for residential site use-EPA Region 9, October 2004
CHHSLs California Human Health Screening Levels in Evaluation of Contaminated Properties, January 2005

The analytical results of the TPH (oil), TPH (diesel), TPH (gasoline), BTEX and MTBE analyses are presented in Table 13. Only compounds detected above the laboratory detection limits are presented in the table. An elevated concentration of TPH oil (17,700 ppm) was detected in the composite sample collected. These samples were collected from a visually stained area near the garage and equipment storage, as shown on Figure 4.

**Table 13. Analytical Results of Surface Soil Samples-Petroleum Hydrocarbons**
(concentrations in parts per million)

| Sample | TPH Oil | TPH Diesel | TPH Gas |
|---|---|---|---|
| SS-3A 3B | **17,700** | <400 | <0.100 |
| Residential PRG* | NE | | |
| | | | |

< Indicates that the compound was not detected at or above stated laboratory detection limits
PRG Preliminary Remediation Goal for residential site use-EPA Region 9, October 2004
NE Not Established

# 6.0 CONCLUSIONS

## 6.1 Historical Summary

The site appeared to consist largely of undeveloped grassland from as early as 1902. The grassland may have been used for grazing land during the 1940s through 1960s, especially on the northern portion of the site. One small structure was depicted on-site in 1902; additional structures, appearing residential and possibly agricultural in nature, appeared present in two general on-site locations in 1948 and 1964. One rectangular field, possibly agriculturally cultivated, was observed on the far southwestern corner of the site on the 1964 aerial photograph.

The current Valley Gardens Golf Course reportedly was constructed on-site in 1971, at which time a trailer for the pro shop also appears to have been installed. The caretaker's residence and corporation yard reportedly were constructed in 1972. In 1995, the current pro shop building appears to have been placed on-site. Other buildings may have been present elsewhere on-site at other times during development of the site with the golf course. The on-site reservoirs appear to have been present since initial construction of the golf course, although the smaller one may have been periodically dry.

## 6.2 Agricultural Use

One apparently agricultural field was observed on the far southwestern corner of the site on a 1964 aerial photograph. Based on the sampling results, there does not appear to be widespread or significant elevated concentration of pesticides or pesticide-related metals in this area of the project site.

## 6.3 Chemical Storage and Use

Observed chemical storage and use at the site currently and historically by Valley Gardens Golf Course involved generally small to moderate quantities of vehicle fuels, vehicle maintenance chemicals, herbicides, fungicides, algaecides, fertilizers, and paints. Local regulatory agencies had no file information regarding the usage of hazardous materials by Valley Gardens Golf Course. General housekeeping of chemical storage areas appeared adequate, with no readily observable evidence of significant spills or leaks other than lightly to moderately discolored soil and concrete in hazardous materials storage areas and within the pump house. We recommend that all hazardous materials be appropriately disposed prior to the property transfer.

Based on the golf course sampling results, there does not appear to be widespread or significant elevated concentrations of pesticides or pesticide related metals at the project site that would preclude the planned residential use of the site. Lead, arsenic and mercury concentration appear consistent with naturally-occurring background concentrations. Pesticide concentrations exceeded the CHHSLs or the USEPA residential PRGs at two of the sampling locations (GC-1A and GC-2C). Elevated chlordane (up to 1.3 ppm) was detected at soil sampling location GC-1A (Hole #1 Tee box). The vertical and lateral soil sampling did not identify chlordane concentrations exceeding the laboratory detection limits. Elevated heptachlor epoxide (up to 0.074 ppm) was detected at soil sampling location GC-2C (near the putting green on

Hole #8). The concentration exceeds the USEPA residential PRG, but no CHHSL has been established for this compound. These areas should be remediated by soil removal and off-site disposal at a licensed landfill prior to residential developments.

A composite sample collected in the equipment storage area revealed concentrations of TPH oil up to 17,700 ppm which exceeds regulatory threshold concentrations and should be removed. No further samples were taken in this area to evaluate the lateral and vertical extent of this contamination.

## 6.4 Developed Areas

The current and historic developments included the caretakers' residence, the garage/shop building, and the formerly developed area on the southeastern side of the site. Based on the sampling results, there does not appear to be significant elevated concentrations of pesticides or pesticide-related metals in the developed areas or formerly developed areas that would preclude the planned residential use of the site. TPH oil contamination was detected in the equipment storage area adjacent to the garage/shop building, as described above. The historical building sampling results revealed an arsenic concentration of 9.4 ppm may exceed naturally-occurring background concentrations and other arsenic concentrations detected at the project site. This area may need to be remediated prior to site redevelopment.

Information on the potential for the historical developments to have maintained hazardous materials and/or subgrade structures, including USTs, septic tanks, and/or water supply wells, was not available in the information reviewed for this study. Buried structures, fill, building materials, buried debris, septic tanks, wells, USTs, impacted soil, and other buried objects may be encountered during site development activities in these areas; these materials may require special handling and disposal and possibly result in required characterization and remediation.

## 6.5 Historic Use of Treated Waste Water Effluent for Irrigation

From 1967 (appears unlikely as the golf course reportedly was not constructed until 1971) until 1983, secondarily-treated waste water effluent from the SVTP reportedly was piped to the on-site reservoir and subsequently used to irrigate the golf course. Based on information provided in a report prepared for the EPA on the site in 1985, the regional ground water-bearing zone had been impacted by VOCs and cyanide by 1985/1986. The source of the contamination was unknown, but thought possibly to be from use of treated wastewater on several properties including the project site. Monitoring of the effluent piped to the site reportedly was not monitored for volatile organic contaminants or cyanide; monitoring of a City of Scotts Valley ground water production well located immediately adjacent to the down-gradient (northern) site boundary reportedly has not detected the presence of VOCs. No further action with respect to this issue appeared to have been taken at the site, and the site was listed on the CERCLIS-NFRAP database as not requiring further investigation in 1991.

A monitoring well is also located 250 feet down-gradient (north) of the site, and it has VOC concentrations exceeding drinking water standards. The source of this contamination was not determined during this Phase I, but is likely associated with the nearby dry cleaner. This facility is located down-gradient of the golf course, but

up-gradient of the monitoring well. A review of the regulatory agency file is recommended if further assurance is desired to confirm the dry cleaner is the source of VOCs in ground water.

## 6.6 Water Supply Well

The on-site irrigation water supply well should be properly abandoned in accordance with applicable regulations if continued use is no longer intended. If continued use is desired, we recommend evaluating water quality and well efficiency.

## 6.7 Septic System

The caretaker's residence reportedly historically was connected to a septic system. The location of the septic system was not able to be determined from the information available during this study. If encountered during site development, the septic system should be properly abandoned in accordance with applicable regulations. Due to the generally residential history of the site, disposal of significant quantities of hazardous materials to the septic system appears unlikely. If a higher level of comfort is desired, samples can be collected from this system to evaluate if hazardous compounds may have been improperly disposed.

## 6.8 Asbestos

Due to the age of the caretaker's residence and adjacent corporation yard structures, asbestos-containing materials (ACMs) may be present. Since demolition of the building is under consideration, an asbestos survey must be conducted under National Emissions Standards for Hazardous Air Pollutants (NESHAP) guidelines. In addition, NESHAP guidelines require that all potentially friable ACM be removed prior to building demolition or renovation that may disturb the ACM.

## 6.9 Radon

Based on the literature reviewed, in our opinion the risk of radon gas accumulation is not a significant environmental concern at the site.

## 6.10 Lead-Based Paint

In 1978, the Consumer Product Safety Commission banned the use of lead as an additive in paint. Based on the age of the caretaker's residence and adjacent corporation yard structures, lead-based paint may be present. If lead-based paint is still bonded to the building materials, its removal is not required prior to demolition. It will be necessary, however, to follow the requirements outlined by Cal/OSHA Lead in Construction Standard, Title 8, California Code of Regulations (CCR) 1532.1 during demolition activities; these requirements include employee training, employee air monitoring, and dust control. If lead based paint is peeling, flaking or blistered, it should be removed prior to demolition. It is assumed that such paint will become separated from the building components during demolition activities; thus, it must be managed and disposed as a separate waste steam. Any debris or soil containing lead paint or coating must be disposed at landfills that are permitted to accept the waste being disposed.

## 6.11 Urban Runoff Pollution Prevention Program

The Urban Runoff Pollution Prevention Program, also called the Non-Point Source Program, was developed in accordance with the requirements of the 1986 San Francisco Bay Basin Water Quality Control Plan to reduce water pollution associated with urban storm water runoff. This program was also designed to fulfill the requirements of the Federal Clean Water Act, which mandated that the EPA develop National Pollution Discharge Elimination system (NPDES) Permit application requirements for various storm water discharges, including those from municipal storm drain systems and construction sites.

Construction activity resulting in a land disturbance of 1 acre or more, or less than 1 acre but part of a larger common plan of development or sale, must obtain a Construction Activities Storm Water General Permit. A Notice of Intent (NOI) and Storm Water Pollution Prevention Plan (SWPPP) must be prepared prior to commencement of construction.

## 6.12 Potential Environmental Concerns Within the Site Vicinity

Based on the information obtained during this study, no hazardous material incidents have been reported in the site vicinity that would be likely to significantly impact the site. As is typical to many commercial areas, several facilities in the vicinity, however, were reported as hazardous materials users; if leaks or spills occur at these facilities, contamination could impact the site, depending upon the effectiveness of cleanup efforts. In addition, frequent monitoring of the adjacent Scotts Valley Water District production well reportedly has not detected the presence of VOCs or, with the exception of iron, manganese, phosphate, and historically, hydrogen sulfide, other contaminants required to be monitored for to comply with federal and state drinking water standards.

# 7.0 LIMITATIONS

As with all site assessments, the extent of information obtained is a function of client demands, time limitations, and budgetary constraints. Our conclusions and recommendations regarding the site are based on readily observable site conditions, review of readily available documents, maps, aerial photographs, and data collected and/or reported by others. Due to poor or inadequate address information, the regulatory agency database report listed several sites that may be inaccurately mapped or could not be mapped; leaks or spills from these or other facilities, if nearby, could impact the site. We are not responsible for the accuracy of information or data presented by others.

Because publicly available information often cannot affirm the presence of recognized environmental conditions, there is the possibility that such conditions exist. The accuracy and reliability of geo- or hydro-chemical studies are a reflection of the number and type of samples taken and extent of the analyses conducted, and are thus inherently limited and dependent upon the resources expended. Chemical analyses were performed for specific parameters during this investigation, as detailed in the scope of services. Please note that additional constituents not analyzed for during this evaluation may be present in soil and ground water at the site. Our

sampling and analytical plan was designed using accepted environmental principles and our judgment for the performance of a soil quality evaluation and was based on the degree of investigation approved by you. It is possible to obtain a greater degree of certainty, if desired, by implementing a more rigorous soil sampling program or evaluating the risk posed by the contaminants detected, if any.

This report was prepared for the sole use of Ponderosa Homes. We make no warranty, expressed or implied, except that our services have been performed in accordance with environmental principles generally accepted at this time and location.

## 8.0 REFERENCES

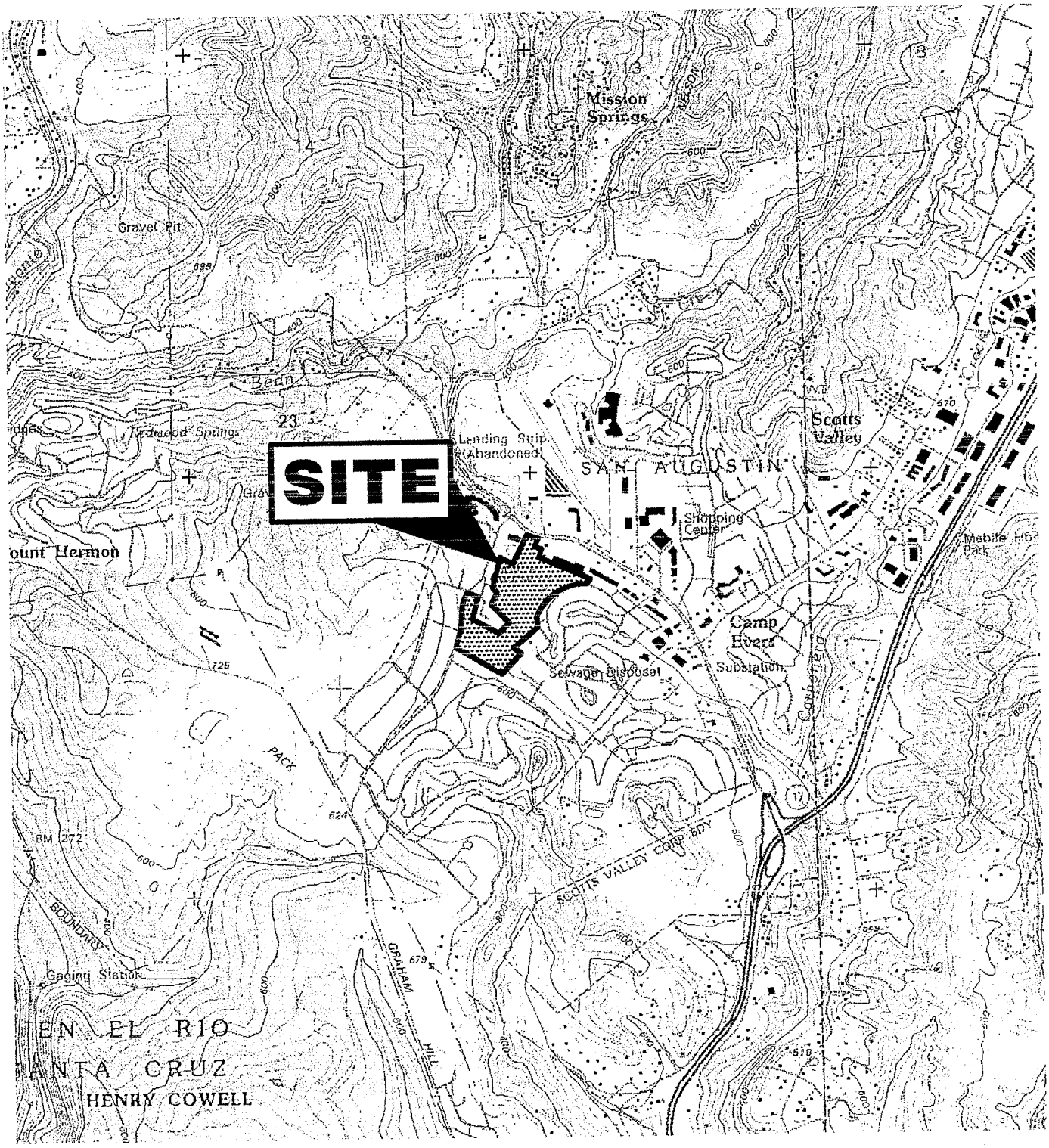
Bradford, G.R., Chang, A.C., Page, A.L., Bakhtar, D., Frampton, J.A., and H. Wright. March 1996. *Background Concentrations of Trace and Major Elements in California Soils.* Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California.

Cal/EPA, January 2005. *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties.*

Ecology and Environment, Inc. CERCLA Site Inspection, Valley Gardens Golf Course, 236 Mount Herman Road, Scotts Valley, CA 95066. September 17, 1985.

United States Environmental Protection Agency (USEPA). Region 9, October 2004. *Preliminary Remediation Goals.*

* * * * * * * * * * * *




© DeLorme Topo Quads.

1/06 EB

**VICINITY MAP**

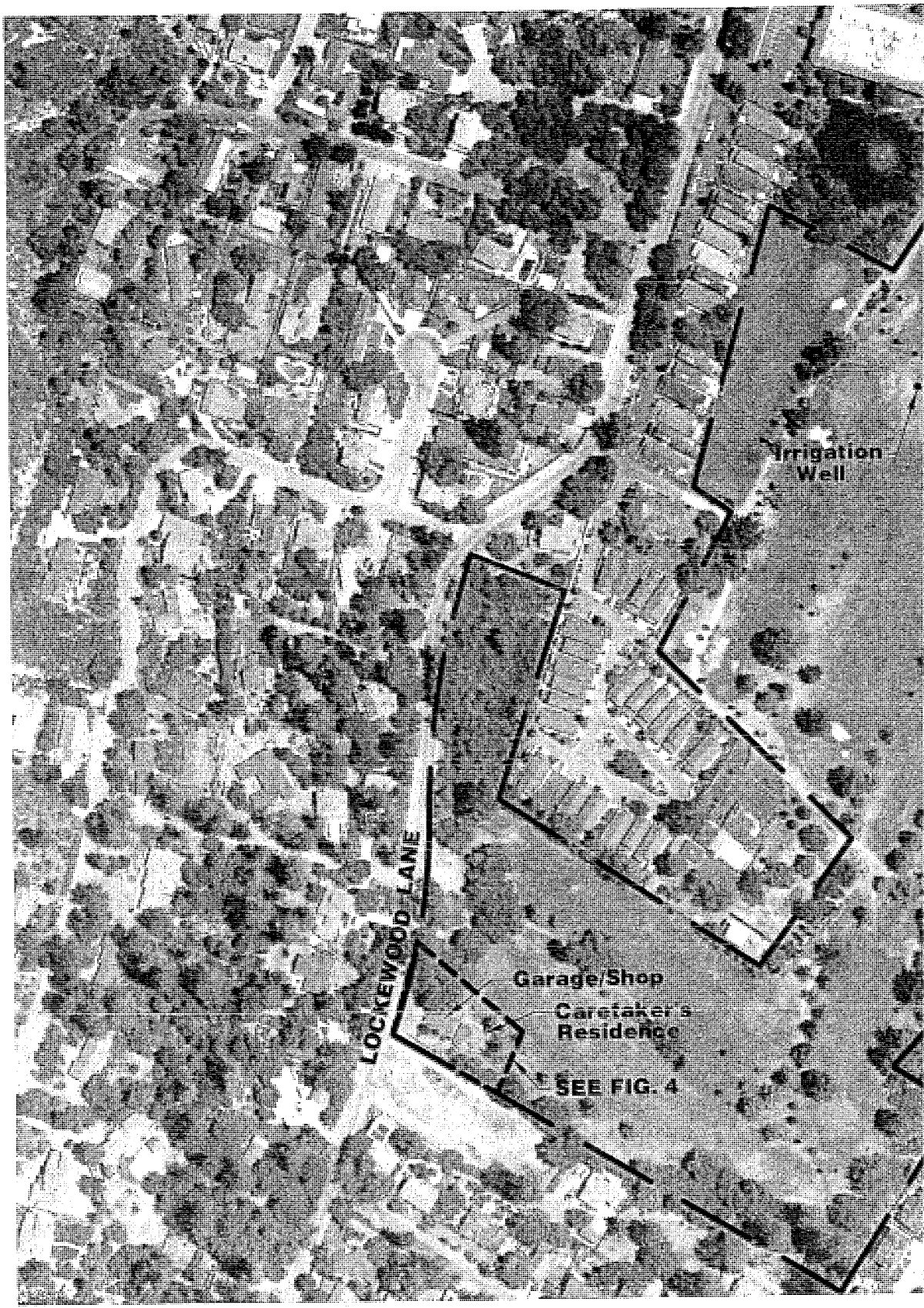
VALLEY GARDENS GOLF COURSE

Scotts Valley, California

TRC Lowney

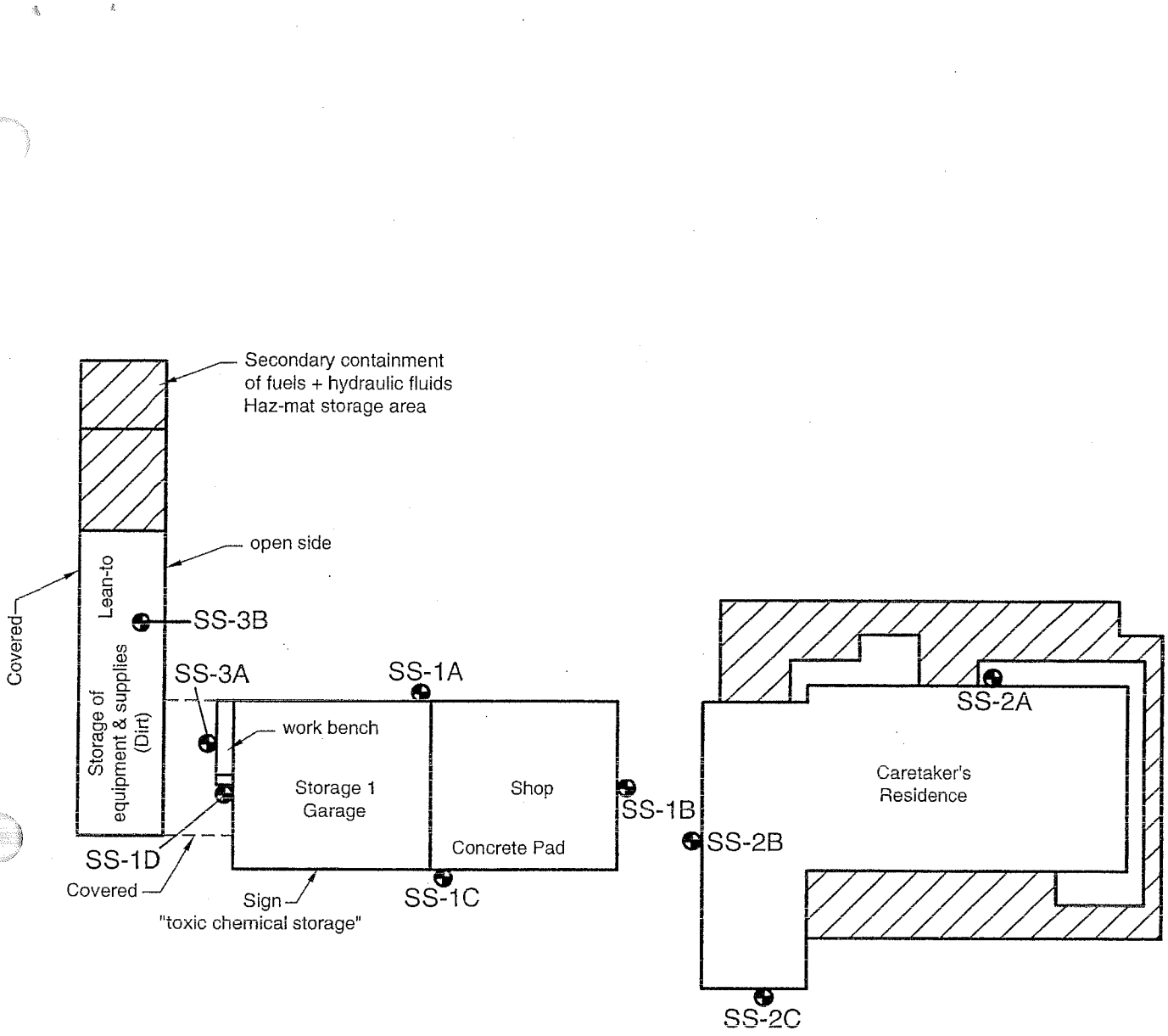
**FIGURE 1**

247-26/247-26B




**LEGEND**

Approximate location of site Boundary




**LEGEND**

- Approximate location of surface soil sample

- Concrete areas

0 20

Scale feet

Base approximated from Lowney Associates field notes.

## SITE MAP - DETAIL OF GARAGE AND CARETAKER'S RESIDENCE

VALLEY GARDENS GOLF COURSE

Scotts Valley, California

TRC Lowney

**FIGURE 4**

247-26/247-26B




NOT TO SCALE

**LEGEND**

- ⊕ - Approximate location of surface soil sample
- ▬ ▬ ▬ Approximate location of site Boundary

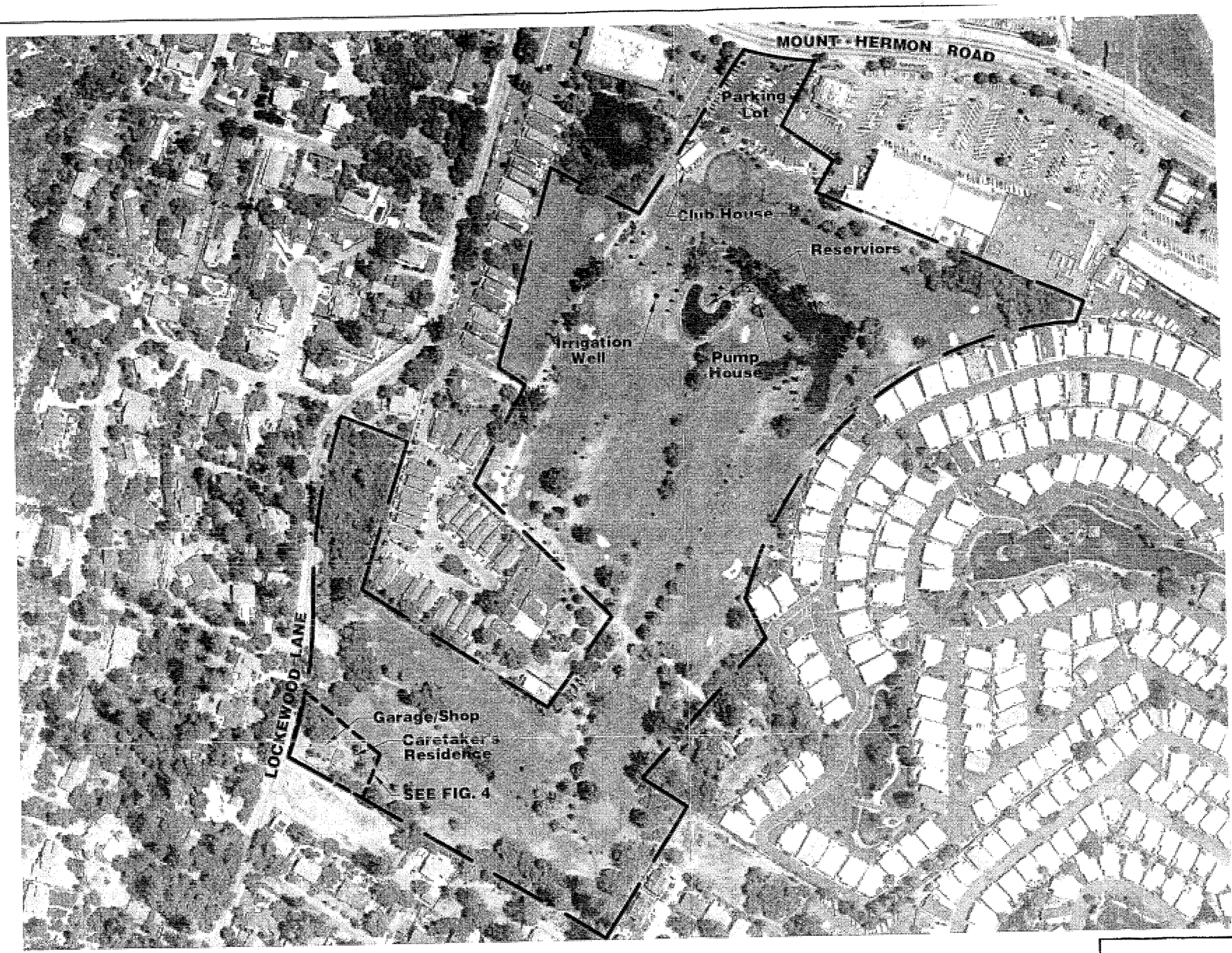
Base by Global explorer

**SITE PLAN - SAMPLING LOCATIONS**
VALLEY GARDENS GOLF COURSE
Scotts Valley, California

TRC Lowney

**FIGURE 3**
247-26/
247-26B

1*EB




N

NOT TO SCALE

**LEGEND**

▬ ▬ ▬ Approximate location of site Boundary

Base by Global explorer

**SITE PLAN**
VALLEY GARDENS GOLF COURSE
Scotts Valley, California

TRC Lowney

**FIGURE 2**
247-26/
247-26B

# APPENDIX E
# ENVIRONMENTAL LIEN AND AUL SEARCH

**VALLEY GARDENS GOLF COURSE**
263 MOUNT HERMON ROAD
SCOTTS VALLEY, CA 95066

**Inquiry Number: 06469411.5SR**
MAY 7, 2021

# EDR Environmental Lien and AUL Search

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

**Thank you for your business.**
Please contact EDR at 1-800-352-0050
with any questions or comments.

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# EDR Environmental Lien and AUL Search

## TARGET PROPERTY INFORMATION

### ADDRESS

VALLEY GARDENS GOLF COURSE
263 MOUNT HERMON ROAD
SCOTTS VALLEY, CA 95066

### RESEARCH SOURCE

Source 1: SANTA CRUZ COUNTY RECORDER'S OFFICE

Source 2: CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

### PROPERTY INFORMATION

**Deed 1**

| | |
|---|---|
| Type of Deed: | GRANT DEED |
| Title is vested in: | VALLEY GARDENS GOLF COURSE |
| Title received from: | STEVE BARATH |
| Date Executed: | 05/13/1983 |
| Date Recorded: | 05/20/1983 |
| Book: | 3572 |
| Page: | 341 |
| Volume: | NA |
| Instrument#: | NA |
| Docket: | NA |
| Land Record Comments: | NA |
| Miscellaneous Comments: | NA |

**Legal Description:** COMMONLY KNOWN AS 263 MOUNT HERMON RD IN SCOTTS VALLEY

**Current Owner:** VALLEY GARDENS GOLF COURSE

**Property Identifiers:** 021-011-34-000

**Comments:** NA

# EDR Environmental Lien and AUL Search

**ENVIRONMENTAL LIEN**

Environmental Lien: Found ☐ Not Found ☒

Comments: NONE IDENTIFIED.

**OTHER ACTIVITY AND USE LIMITATIONS (AULS)**

Other AUL's: Found ☐ Not Found ☒

Comments: NONE IDENTIFIED.

# EDR Environmental Lien and AUL Search

**MISCELLANEOUS**

Comments: NONE IDENTIFIED.

EDR Environmental Lien and AUL Search

**DEED EXHIBIT**

Order No.
Escrow No.
Loan No.

BOOK 3572 PAGE 341

22425

RECORDED AT THE REQUEST OF
Thomas Black
MAY 20 1983
12-46 pm
RICHARD W. BEDAL, Recorder
SANTA CRUZ COUNTY, Official Records

| RE | MI | SM | OP |
|---|---|---|---|
| 8 | 1 | 10 | |

WHEN RECORDED MAIL TO:

THOMAS A. BLACK, ESQ.
340 Soquel Avenue
Santa Cruz, CA 95062

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO:

DOCUMENTARY TRANSFER TAX $ NONE
..... Computed on the consideration or value of property conveyed; OR
..... Computed on the consideration or value less liens or encumbrances remaining at time of sale.

Signature of Declarant or Agent determining tax – Firm Name

# GRANT DEED

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, STEVE BARATH

hereby GRANT(S) to VALLEY GARDENS GOLF COURSE, a corporation

the real property in the City of Scotts Valley
County of Santa Cruz , State of California, described as

SEE EXHIBIT "A" ATTACHED HERETO AND INCORPORATED HEREIN BY REFERENCE.

APN: 21-011 part of 6
21-011 part of 7
21-011 part of 10
21-011 part of 12
21-011-1
21-031-9

Dated May 13, 1983

Steve Barath
STEVE BARATH

STATE OF CALIFORNIA }
COUNTY OF Santa Cruz } ss.

On May 13, 1983
before me, the undersigned, a Notary Public in and for said State, personally appeared STEVE BARATH

known to me to be the person – whose name is subscribed to the within instrument and acknowledged that he executed the same.

WITNESS my hand and official seal.

Signature Janet I. Jennings

OFFICIAL SEAL
JANET I. JENNINGS
NOTARY PUBLIC – CALIFORNIA
COUNTY OF SANTA CLARA
Comm. Exp. March 26, 1985

(This area for official notarial seal)

1002 (10/69)

MAIL TAX STATEMENTS AS DIRECTED ABOVE

PARCEL ONE:

Situate in the Southeast 1/4 of projected Section 24, T. 10 S., R. 2 W., M.D.B.&M., in the San Augustine Rancho, Santa Cruz County, California, and being part of the lands of Bill Graham, et ux, described in Volume 1122, page 299, Official Records of Santa Cruz County, and being more particularly described as follows:

BEGINNING at a 1/2 inch pipe set on the Northeastern boundary of the lands of J. Jackson Graham, et ux, described in Volume 1828, page 718, Official Records of Santa Cruz County, from which a 1/2 inch pipe found tagged L.S. 1225 at the Northwestern corner of said lands bears North 65° 51' 30" West 25.30 feet distant; thence from said point of beginning North 33° 25' 30" East 243.32 feet to a 1/2 inch pipe set on the Southern sideline of the county road known as the Mount Hermon Road; thence along said sideline on a curve to the left, from a tangent bearing South 70° 38' East, with a radius of 540 feet, through a central angle of 14° 45' 40", an arc distance of 132.78 feet to the end of said curve as shown on the Record of Survey Map of said road filed in Volume 32 of Maps, page 62 in the Office of the Santa Cruz County Recorder, being sheet 2 of 4 sheets; thence continue along said sideline as shown South 86° 48' 40" East 49.00 feet; thence leave said sideline South 33° 26' West 185.00 feet to a 1/2 inch pipe; thence South 56° 34' East 144.00 feet to a 1/2 inch pipe, thence South 33° 26' West 80.21 feet to a 1/2 inch pipe set on the aforementioned Northeastern boundary of said lands of J. Jackson Graham, et ux,; thence along said boundary North 65° 51' 30" West 313.40 feet to the point of beginning.

PARCEL TWO:

Situate in the Southeast 1/4 of projected Section 24, T. 10 S., R. 2 W., M.D.B. and M., in the San Augustine Rancho, Santa Cruz County, California, and being a part of the lands of Bill Graham, et ux, described in Volume 1122, Page 299, of Santa Cruz County Official Records, and being more particularly described as follows:

BEGINNING at a 1/2 inch pipe, tagged L.S. 1225, found at the Northeastern corner of the lands of J. Jackson Graham, et ux, described in Volume 1828, Page 718, of Official Records of Santa Cruz County; thence along the Eastern production of the Northeastern boundary of said lands South 65° 51' 30" East 438.00 feet to a 1/2 inch pipe; thence South 24° 50' West 49.00 feet to a 1/2 inch pipe set on the western sideline of a mobile home park described as Parcel 4 in the Deed to Spring Lakes Park, a partnership, recorded in Volume 2235, Page 403, Official Records of Santa Cruz County; thence along said boundary on a curve to the left in a Southwestern direction from a tangent bearing South 87° 55' West, with a radius of 570 feet, through a central angle of 15° 33', an arc distance of 134.80 feet to a 1/2 inch pipe set at a point of tangency; thence South 74° 22' West 162.65 feet to a 1/2 inch pipe set at a point of curve; thence along a curve to the left, with a radius of 470 feet, through a central angle of 42° 10' an arc distance of 345.90 feet to a 1/2 inch pipe set at a point of tangency; thence South 32° 12' West 352.31 feet to a 1/2 inch pipe set on the southern boundary of the said lands of Bill Graham, et ux; thence along said boundary North 31° 57' West 139.88 feet to a 1/2 inch pipe tagged L.S. 1225 found at the Westernmost corner of said lands; thence North 33° 38' 40" East 803.25 feet to the point of beginning.

PARCEL THREE:

Situate in the Southeast 1/4 of projected Section 24, T. 10 S., R. 2 W., M.D.B. and M., in the San Augustine Rancho, Santa Cruz County, California, and being a part of the lands of Bill Graham and Shirley Graham, his wife, as described in Volume 621, Page 159, Official Records of Santa Cruz County, and in Volume 1629, Page 565, Official Records of Santa Cruz County, and being more particularly described as follows:

EXHIBIT "A"

BEGINNING at a 1/2 inch pipe set on the Eastern boundary of said lands from which the Northwestern corner of the lands of Donald M. Hall and Helen G. Hall, his wife, described in Volume 1669, Page 177, Official Records of Santa Cruz County, bears South 33° 25' 30" West 54.37 feet distant; thence along said eastern boundary North 33° 25' 30" East 215.95 feet to the centerline of the P. G. & E. Easement described in Volume 999, Page 426, Official Records of Santa Cruz County, said centerline bears North 61° 54' West; thence continue North 33° 25' 30" East 215.95 feet, a total of 431.90 feet to a 1/2 inch pipe; thence leave said eastern boundary North 61° 54' West 208.50 feet to a 1/2 inch pipe from which a 1/2 inch pipe set on the Eastern boundary of the county road known as Lockewood Lane bears North 61° 54' West 126.95 feet distance; thence along a line parallel to and 125.00 feet distant from said Eastern boundary of Lockewood Lane South 18° 02' West 178.44 feet to a 1/2 inch pipe; thence South 6° 15' 50" West 61.29 feet to a 1/2 inch pipe; thence South 18° 02' West 200.63 feet to a 1/2 inch pipe from which a 1/2 inch pipe set on the Eastern boundary of said Lockewood Lane bears North 61° 54' West 126.95 feet distant; thence South 61° 54' East 79.61 feet to the point of beginning.

PARCEL FOUR:

Situate in the Southeast 1/4 of projected Section 24, T. 10 S., R. 2 W., M.D.B. and M., in the San Augustine Rancho, Santa Cruz County, California, and being a part of Parcel One of the lands of J. Jackson Graham and Lola A. Graham, his wife, described in Volume 1828, Page 718, Official Records of Santa Cruz County, and being more particularly described as follows:

BEGINNING at a 1/2 inch pipe found at the Southeastern corner of said Parcel One, being also the Southwestern corner of the lands of Walter B. Sims, et ux, described in Volume 1941, Page 154, Official Records of Santa Cruz County; thence along the Northwestern boundary of said lands North 47° 05' East 392.23 feet to a 1/2 inch pipe found at the Northwestern corner thereof; thence leaving said lands of Sims along the boundary of said Parcel One, North 31° 54' West 271.30 feet; thence North 33° 50' East 803.25 feet; thence North 65° 51' West 511.87 feet to a 1/2 inch pipe from which a 1/2 inch pipe tagged L.S. 1225 found at the Northwestern corner of said Parcel One bears North 65° 10' West 25.30 feet distant; thence along a line 25.00 feet distant from and parallel to, the Northwestern boundary of said Parcel One South 33° 25' 30" West 193.83 feet to a 1/2 inch pipe; thence North 61° 54' West 25.12 feet to a station on the Northwestern boundary of said Parcel One; thence along said boundary South 33° 25' 30" West 486.27 feet to the Northwestern corner of the lands of Donald M. Hall, et ux, recorded in Volume 1669, Page 177, Official Records of Santa Cruz County, thence along the northern boundary of said lands South 65° 13' 10" East 270.10 feet; thence along the eastern boundary of said lands South 24° 38' 10" West 287.83 feet to a 1/2 inch pipe tagged R. E. 11423; thence South 25° 10' 50" East 54.85 feet to a station on the southwestern boundary of a 25 foot wide right of way from which a 1/2 inch pipe tagged R. E. 11423 bears South 25° 11' East 2.14 feet distant; thence leave said lands of Hall, along said southwestern boundary South 47° 20' East 92.23 feet to a 1/2 inch pipe; thence South 37° 52' West 245.65 feet to a 1/2 inch pipe set on the southern boundary of the aforementioned Parcel One; thence along said boundary South 56° 16' East 253.13 feet to the point of beginning.

TOGETHER WITH a 25 foot wide right of way leading from the Northwestern boundary of the herein described parcel to the county raod known as Lockewood Lane, the centerline of which is more particularly described as follows:

BEGINNING at a station on the northwestern boundary of the herein described parcel from which the northwestern corner of the lands of Donald M. Hall, et ux, bears South 33° 25' 30" West 41.82 feet distant; thence North 61° 54' West 203.17 feet to the eastern boundary of Lockewood Lane County Road, as shown on the Record of Survey Map filed in Volume 40 at Page 74, of Maps, in the Office of the Santa Cruz County Recorder.

PARCEL FIVE:

Situate in the Southeast 1/4 of projected Section 24, T. 10 S., R. 2 W., M.D.B. and M., in the San Augustine Rancho, Santa Cruz County, California, and being a part of the lands of Donald M. Hall and Helen G. Hall, his wife, described in Volume 1669, Page 177, of Santa Cruz County Official Records, and being more particularly described as follows:

BEGINNING at a 1 inch untagged pipe standing at the Westernmost corner of said lands; thence along the Western boundary of said lands North 33° 25' 30" East 212.72 feet to the Northwestern corner thereof; thence along the Northern boundary of said lands South 65° 32' East 270.10 feet; thence South 24° 20' West 287.83 feet to a 1/2 inch pipe tagged R. E. 11423; thence South 25° 29' East 54.85 feet to the southwestern sideline of a 25 foot wide right of way from which a 1/2 inch pipe tagged R. E. 11423 bears South 25° 29' East 2.14 feet distant; thence along said sideline and the western production thereof North 47° 20' West 362.98 feet to the point of beginning.

SUBJECT to a 25 foot wide right of way, the Western and Southern boundary of which are described as follows:

BEGINNING at a point from which the Northwestern corner of said lands of Hall bears North 65° 32' West 25.61 feet distant; thence along said Western sideline South 18° 03' 20" West 239.73 feet to a point on the Southwestern boundary of said lands of Hall from which the westernmost corner of said lands bears North 47° 20' West 90.00 feet distant; thence along said boundary South 47° 20' East 272.98 feet.

"SUBJECT, HOWEVER, to those covenants and conditions agreed to by grantors BILL GRAHAM and SHIRLEY GRAHAM, his wife, and Grantee, to be placed on record concurrently with this grant, limiting the rights of grantee, his heirs, successors, assigns, executors and administrators, to construct, build, erect, or cause to be constructed, built or erected, any structures or buildings upon that portion of those above-described lands subject to this grant, the limitations if which are described as follows:

(1) that portion of the above-described lands situate adjacent to the lands of Bill Graham and Shirley Graham described in part of Book 1122, at page 299, Official Records, Santa Cruz County Recorder, and more specifically consisting of a zone 300 feet in depth running southerly from that portion of the northeasterly boundary line of the lands of Grantee as they adjoin a portion of the lands of Bill Graham and Shirley Graham, more particularly described as that line starting at a point 198.47 feet westerly from a one-half inch pipe, tagged "LS1225", found at the north-eastern corner of the lands of John Jackson Graham, et ux, described in Volume 1828, page 718, Santa Cruz County Official Records; bearing North 65° 51'; thence proceeding from said point North 65° 51' 30" Easterly 198.47 ft. to said one-half inch pipe, tagged "LS 1225", thence along the eastern production of the northeastern boundary of said lands 65° 51' 30" East 438 feet to a half-inch pipe;

(2) that portion of the above-described lands situate adjacent to the lands of Bill Graham and Shirley Graham described in part in Book 621, page 159, and in Book 1529, page 565, Official Records, Santa Cruz County Recorder, and more specifically consisting of a zone 300 feet in depth running easterly from the westernmost extension of the lands of Grantee, consisting of that 1.418-acre parcel made a part of this conveyance and more particularly described as that North-South boundary line which forms the westerly boundary of said 1.418-acre parcel.

(3) These restrictions shall apply only so long as the lands of Grantee as described in said deed remain a golf course, defined for these purposes as total fairway yardage in excess of 1200 yards. In the event total fairway yardage should be reduced below 1200 total yards, these restrictions shall, in said event, no longer apply and shall no longer be valid or enforceable."

"FURTHER, SUBJECT, HOWEVER, to those covenants and conditions entered into between grantors BILL GRAHAM and SHIRLEY GRAHAM, his wife, and grantee, evidenced by separate agreement placed of record concurrently with the recordation of this grant, reserving to grantors BILL GRAHAM and SHIRLEY GRAHAM, his wife, their heirs, successors and assigns, the use of freeflowing waters in channels and ponds fed by springs from properties not subject of these grants, but traversing portions of Parcels 5, 4, and 3 as hereinabove described in this grant, and leading onto the lands of BILL GRAHAM and SHIRLEY GRAHAM, his wife, described in Volume 621 of Official Records at page 159, Santa Cruz County Recorder. Grantors BILL GRAHAM and SHIRLEY GRAHAM reserve an exclusive right to withdraw water for irrigation purposes to serve that property described in Volume 621 of Official Records, page 159, Santa Cruz County Recorder, and do thereby restrict the right of grantee to divert or obstruct said waters except as may be thereafter agreed upon in writing between said grantors, their heirs and assigns. These restrictions and conditions shall apply only to those water channels and ponds which flow into and empty into those lands retained by grantors and hereinabove described by reference.

PARCEL SIX:

BEING a part of the lands conveyed to Joseph Eberhardt, et ux, by Deed recorded April 18, 1939 in Volume 369, Page 149, Official Records of Santa Cruz County, more particularly described as follows:

BEGINNING on the center line of the road known as Lockwood Lane at the most Northern corner of that parcel of land conveyed to Klara Laquay by Deed recorded August 22, 1960 in Volume 1338, Page 19, Official Records of Santa Cruz County; thence from said point of beginning South 56° 04' East along the Northeasterly line of said lands of Laquay 790.0 feet, a little more or less, to the most Eastern corner thereof; thence leaving said corner North 33° 56' East 175.0 feet, a little more or less, to the Northeasterly line of said lands of Eberhardt; thence North 56° 12' West along said line 760.0 feet, a little more or less, to an angle; thence North 18° 25' East 338.57 feet to the most Southerly corner of that parcel of land conveyed to Raymond V. Liebenberg, et ux, by Deed recorded November 21, 1960 in Volume 1356 of Official Records of Santa Cruz County, at page 245; thence North 72° 00' West along the Southerly line of said last named lands 184.19 feet to a point on the center line of said Lockwood Lane; thence Southerly along the center line of said land, 545.0 feet, a little more or less, ot the point of beginning.

EXCEPTING therefrom so much of the herein described land as was conveyed to County of Santa Cruz by deed recorded August 9, 1962 in Volume 1488, Page 32, Official Records of Santa Cruz County.

PARCEL SEVEN:

BEING a portion of Parcel 3 of the lands conveyed to Joseph Eberhardt, et ux, by Trustee's Deed recorded in Volume 1747, Page 35, Official Records of Santa Cruz County, more particularly described as follows:

BEGINNING at the most Westerly corner of said Parcel 3; thence from said point of beginning along the Northwesterly and Northeasterly boundaries of said Parcel 3 North 33° 57' East 400 feet to the most Northerly corner thereof and South 56° 10' East 86 feet, more or less, to the most Northerly corner of the lands conveyed to Jun Lee, by Deed recorded in Volume 1906, Page 368, Official Records of Santa Cruz County; thence along the Northwesterly boundary of said lands of Lee South 33° 57' West 400 feet, more or less, to a point on the Southerwesterly boundary of said Parcel 3 of the lands conveyed to Eberhardt; thence leaving said lands of Lee along the Southwesterly boundary of said Parcel 3 North 56° 03' West 86 feet, more or less, to the point of beginning.

**VALLEY GARDENS GOLF COURSE**
263 MOUNT HERMON ROAD
SCOTTS VALLEY, CA 95066

**Inquiry Number: 06469411.5SR**
MAY 7, 2021

# EDR Environmental Lien and AUL Search

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

**Thank you for your business.**
Please contact EDR at 1-800-352-0050
with any questions or comments.

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# EDR Environmental Lien and AUL Search

## TARGET PROPERTY INFORMATION

### ADDRESS

VALLEY GARDENS GOLF COURSE
263 MOUNT HERMON ROAD
SCOTTS VALLEY, CA 95066

### RESEARCH SOURCE

Source 1: SANTA CRUZ COUNTY RECORDER'S OFFICE

Source 2: CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

### PROPERTY INFORMATION

**Deed 1**

| | |
|---|---|
| Type of Deed: | GRANT DEED |
| Title is vested in: | VALLEY GARDENS GOLF COURSE |
| Title received from: | STEVE BARATH |
| Date Executed: | 05/13/1983 |
| Date Recorded: | 05/20/1983 |
| Book: | 3572 |
| Page: | 341 |
| Volume: | NA |
| Instrument#: | NA |
| Docket: | NA |
| Land Record Comments: | NA |
| Miscellaneous Comments: | NA |

**Legal Description:** COMMONLY KNOWN AS 263 MOUNT HERMON RD IN SCOTTS VALLEY

**Current Owner:** VALLEY GARDENS GOLF COURSE

**Property Identifiers:** 021-221-02-000

**Comments:** NA

# EDR Environmental Lien and AUL Search

**ENVIRONMENTAL LIEN**

Environmental Lien: Found ☐ Not Found ☒

Comments: NONE IDENTIFIED.

**OTHER ACTIVITY AND USE LIMITATIONS (AULS)**

Other AUL's: Found ☐ Not Found ☒

Comments: NONE IDENTIFIED.

# EDR Environmental Lien and AUL Search

**MISCELLANEOUS**

Comments: NONE IDENTIFIED.

EDR Environmental Lien and AUL Search

**DEED EXHIBIT**

Order No.
Escrow No.
Loan No.

BOOK 3572 PAGE 341

22425

RECORDED AT THE REQUEST OF
Thomas Black
MAY 20 1983
12-46 pm
RICHARD W. BEDAL, Recorder
SANTA CRUZ COUNTY, Official Records

| RE | MI | SM | OP |
|---|---|---|---|
| 8 | 1 | 10 | |

WHEN RECORDED MAIL TO:

THOMAS A. BLACK, ESQ.
340 Soquel Avenue
Santa Cruz, CA 95062

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO:

DOCUMENTARY TRANSFER TAX $ NONE
..... Computed on the consideration or value of property conveyed; OR
..... Computed on the consideration or value less liens or encumbrances remaining at time of sale.

Signature of Declarant or Agent determining tax – Firm Name

# GRANT DEED

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, STEVE BARATH

hereby GRANT(S) to VALLEY GARDENS GOLF COURSE, a corporation

the real property in the City of Scotts Valley
County of Santa Cruz , State of California, described as

SEE EXHIBIT "A" ATTACHED HERETO AND INCORPORATED HEREIN BY REFERENCE.

APN: 21-011 part of 6
21-011 part of 7
21-011 part of 10
21-011 part of 12
21-011-1
21-031-9

Dated May 13, 1983

Steve Barath
STEVE BARATH

STATE OF CALIFORNIA }
COUNTY OF Santa Cruz } ss.

On May 13, 1983
before me, the undersigned, a Notary Public in and for said State, personally appeared STEVE BARATH

known to me to be the person – whose name is subscribed to the within instrument and acknowledged that he executed the same.

WITNESS my hand and official seal.

Signature Janet I. Jennings

OFFICIAL SEAL
JANET I. JENNINGS
NOTARY PUBLIC – CALIFORNIA
COUNTY OF SANTA CLARA
Comm. Exp. March 26, 1985

(This area for official notarial seal)

1002 (10/69)

MAIL TAX STATEMENTS AS DIRECTED ABOVE

PARCEL ONE:

Situate in the Southeast 1/4 of projected Section 24, T. 10 S., R. 2 W., M.D.B.&M., in the San Augustine Rancho, Santa Cruz County, California, and being part of the lands of Bill Graham, et ux, described in Volume 1122, page 299, Official Records of Santa Cruz County, and being more particularly described as follows:

BEGINNING at a 1/2 inch pipe set on the Northeastern boundary of the lands of J. Jackson Graham, et ux, described in Volume 1828, page 718, Official Records of Santa Cruz County, from which a 1/2 inch pipe found tagged L.S. 1225 at the Northwestern corner of said lands bears North 65° 51' 30" West 25.30 feet distant; thence from said point of beginning North 33° 25' 30" East 243.32 feet to a 1/2 inch pipe set on the Southern sideline of the county road known as the Mount Hermon Road; thence along said sideline on a curve to the left, from a tangent bearing South 70° 38' East, with a radius of 540 feet, through a central angle of 14° 45' 40", an arc distance of 132.78 feet to the end of said curve as shown on the Record of Survey Map of said road filed in Volume 32 of Maps, page 62 in the Office of the Santa Cruz County Recorder, being sheet 2 of 4 sheets; thence continue along said sideline as shown South 86° 48' 40" East 49.00 feet; thence leave said sideline South 33° 26' West 185.00 feet to a 1/2 inch pipe; thence South 56° 34' East 144.00 feet to a 1/2 inch pipe, thence South 33° 26' West 80.21 feet to a 1/2 inch pipe set on the aforementioned Northeastern boundary of said lands of J. Jackson Graham, et ux,; thence along said boundary North 65° 51' 30" West 313.40 feet to the point of beginning.

PARCEL TWO:

Situate in the Southeast 1/4 of projected Section 24, T. 10 S., R. 2 W., M.D.B. and M., in the San Augustine Rancho, Santa Cruz County, California, and being a part of the lands of Bill Graham, et ux, described in Volume 1122, Page 299, of Santa Cruz County Official Records, and being more particularly described as follows:

BEGINNING at a 1/2 inch pipe, tagged L.S. 1225, found at the Northeastern corner of the lands of J. Jackson Graham, et ux, described in Volume 1828, Page 718, of Official Records of Santa Cruz County; thence along the Eastern production of the Northeastern boundary of said lands South 65° 51' 30" East 438.00 feet to a 1/2 inch pipe; thence South 24° 50' West 49.00 feet to a 1/2 inch pipe set on the western sideline of a mobile home park described as Parcel 4 in the Deed to Spring Lakes Park, a partnership, recorded in Volume 2235, Page 403, Official Records of Santa Cruz County; thence along said boundary on a curve to the left in a Southwestern direction from a tangent bearing South 87° 55' West, with a radius of 570 feet, through a central angle of 15° 33', an arc distance of 134.80 feet to a 1/2 inch pipe set at a point of tangency; thence South 74° 22' West 162.65 feet to a 1/2 inch pipe set at a point of curve; thence along a curve to the left, with a radius of 470 feet, through a central angle of 42° 10' an arc distance of 345.90 feet to a 1/2 inch pipe set at a point of tangency; thence South 32° 12' West 352.31 feet to a 1/2 inch pipe set on the southern boundary of the said lands of Bill Graham, et ux; thence along said boundary North 31° 57' West 139.88 feet to a 1/2 inch pipe tagged L.S. 1225 found at the Westernmost corner of said lands; thence North 33° 38' 40" East 803.25 feet to the point of beginning.

PARCEL THREE:

Situate in the Southeast 1/4 of projected Section 24, T. 10 S., R. 2 W., M.D.B. and M., in the San Augustine Rancho, Santa Cruz County, California, and being a part of the lands of Bill Graham and Shirley Graham, his wife, as described in Volume 621, Page 159, Official Records of Santa Cruz County, and in Volume 1629, Page 565, Official Records of Santa Cruz County, and being more particularly described as follows:

EXHIBIT "A"

BEGINNING at a 1/2 inch pipe set on the Eastern boundary of said lands from which the Northwestern corner of the lands of Donald M. Hall and Helen G. Hall, his wife, described in Volume 1669, Page 177, Official Records of Santa Cruz County, bears South 33° 25' 30" West 54.37 feet distant; thence along said eastern boundary North 33° 25' 30" East 215.95 feet to the centerline of the P. G. & E. Easement described in Volume 999, Page 426, Official Records of Santa Cruz County, said centerline bears North 61° 54' West; thence continue North 33° 25' 30" East 215.95 feet, a total of 431.90 feet to a 1/2 inch pipe; thence leave said eastern boundary North 61° 54' West 208.50 feet to a 1/2 inch pipe from which a 1/2 inch pipe set on the Eastern boundary of the county road known as Lockewood Lane bears North 61° 54' West 126.95 feet distance; thence along a line parallel to and 125.00 feet distant from said Eastern boundary of Lockewood Lane South 18° 02' West 178.44 feet to a 1/2 inch pipe; thence South 6° 15' 50" West 61.29 feet to a 1/2 inch pipe; thence South 18° 02' West 200.63 feet to a 1/2 inch pipe from which a 1/2 inch pipe set on the Eastern boundary of said Lockewood Lane bears North 61° 54' West 126.95 feet distant; thence South 61° 54' East 79.61 feet to the point of beginning.

PARCEL FOUR:

Situate in the Southeast 1/4 of projected Section 24, T. 10 S., R. 2 W., M.D.B. and M., in the San Augustine Rancho, Santa Cruz County, California, and being a part of Parcel One of the lands of J. Jackson Graham and Lola A. Graham, his wife, described in Volume 1828, Page 718, Official Records of Santa Cruz County, and being more particularly described as follows:

BEGINNING at a 1/2 inch pipe found at the Southeastern corner of said Parcel One, being also the Southwestern corner of the lands of Walter B. Sims, et ux, described in Volume 1941, Page 154, Official Records of Santa Cruz County; thence along the Northwestern boundary of said lands North 47° 05' East 392.23 feet to a 1/2 inch pipe found at the Northwestern corner thereof; thence leaving said lands of Sims along the boundary of said Parcel One, North 31° 54' West 271.30 feet; thence North 33° 50' East 803.25 feet; thence North 65° 51' West 511.87 feet to a 1/2 inch pipe from which a 1/2 inch pipe tagged L.S. 1225 found at the Northwestern corner of said Parcel One bears North 65° 10' West 25.30 feet distant; thence along a line 25.00 feet distant from and parallel to, the Northwestern boundary of said Parcel One South 33° 25' 30" West 193.83 feet to a 1/2 inch pipe; thence North 61° 54' West 25.12 feet to a station on the Northwestern boundary of said Parcel One; thence along said boundary South 33° 25' 30" West 486.27 feet to the Northwestern corner of the lands of Donald M. Hall, et ux, recorded in Volume 1669, Page 177, Official Records of Santa Cruz County, thence along the northern boundary of said lands South 65° 13' 10" East 270.10 feet; thence along the eastern boundary of said lands South 24° 38' 10" West 287.83 feet to a 1/2 inch pipe tagged R. E. 11423; thence South 25° 10' 50" East 54.85 feet to a station on the southwestern boundary of a 25 foot wide right of way from which a 1/2 inch pipe tagged R. E. 11423 bears South 25° 11' East 2.14 feet distant; thence leave said lands of Hall, along said southwestern boundary South 47° 20' East 92.23 feet to a 1/2 inch pipe; thence South 37° 52' West 245.65 feet to a 1/2 inch pipe set on the southern boundary of the aforementioned Parcel One; thence along said boundary South 56° 16' East 253.13 feet to the point of beginning.

TOGETHER WITH a 25 foot wide right of way leading from the Northwestern boundary of the herein described parcel to the county raod known as Lockewood Lane, the centerline of which is more particularly described as follows:

BEGINNING at a station on the northwestern boundary of the herein described parcel from which the northwestern corner of the lands of Donald M. Hall, et ux, bears South 33° 25' 30" West 41.82 feet distant; thence North 61° 54' West 203.17 feet to the eastern boundary of Lockewood Lane County Road, as shown on the Record of Survey Map filed in Volume 40 at Page 74, of Maps, in the Office of the Santa Cruz County Recorder.

PARCEL FIVE:

Situate in the Southeast 1/4 of projected Section 24, T. 10 S., R. 2 W., M.D.B. and M., in the San Augustine Rancho, Santa Cruz County, California, and being a part of the lands of Donald M. Hall and Helen G. Hall, his wife, described in Volume 1669, Page 177, of Santa Cruz County Official Records, and being more particularly described as follows:

BEGINNING at a 1 inch untagged pipe standing at the Westernmost corner of said lands; thence along the Western boundary of said lands North 33° 25' 30" East 212.72 feet to the Northwestern corner thereof; thence along the Northern boundary of said lands South 65° 32' East 270.10 feet; thence South 24° 20' West 287.83 feet to a 1/2 inch pipe tagged R. E. 11423; thence South 25° 29' East 54.85 feet to the southwestern sideline of a 25 foot wide right of way from which a 1/2 inch pipe tagged R. E. 11423 bears South 25° 29' East 2.14 feet distant; thence along said sideline and the western production thereof North 47° 20' West 362.98 feet to the point of beginning.

SUBJECT to a 25 foot wide right of way, the Western and Southern boundary of which are described as follows:

BEGINNING at a point from which the Northwestern corner of said lands of Hall bears North 65° 32' West 25.61 feet distant; thence along said Western sideline South 18° 03' 20" West 239.73 feet to a point on the Southwestern boundary of said lands of Hall from which the westernmost corner of said lands bears North 47° 20' West 90.00 feet distant; thence along said boundary South 47° 20' East 272.98 feet.

"SUBJECT, HOWEVER, to those covenants and conditions agreed to by grantors BILL GRAHAM and SHIRLEY GRAHAM, his wife, and Grantee, to be placed on record concurrently with this grant, limiting the rights of grantee, his heirs, successors, assigns, executors and administrators, to construct, build, erect, or cause to be constructed, built or erected, any structures or buildings upon that portion of those above-described lands subject to this grant, the limitations if which are described as follows:

(1) that portion of the above-described lands situate adjacent to the lands of Bill Graham and Shirley Graham described in part of Book 1122, at page 299, Official Records, Santa Cruz County Recorder, and more specifically consisting of a zone 300 feet in depth running southerly from that portion of the northeasterly boundary line of the lands of Grantee as they adjoin a portion of the lands of Bill Graham and Shirley Graham, more particularly described as that line starting at a point 198.47 feet westerly from a one-half inch pipe, tagged "LS1225", found at the north-eastern corner of the lands of John Jackson Graham, et ux, described in Volume 1828, page 718, Santa Cruz County Official Records; bearing North 65° 51'; thence proceeding from said point North 65° 51' 30" Easterly 198.47 ft. to said one-half inch pipe, tagged "LS 1225", thence along the eastern production of the northeastern boundary of said lands 65° 51' 30" East 438 feet to a half-inch pipe;

(2) that portion of the above-described lands situate adjacent to the lands of Bill Graham and Shirley Graham described in part in Book 621, page 159, and in Book 1529, page 565, Official Records, Santa Cruz County Recorder, and more specifically consisting of a zone 300 feet in depth running easterly from the westernmost extension of the lands of Grantee, consisting of that 1.418-acre parcel made a part of this conveyance and more particularly described as that North-South boundary line which forms the westerly boundary of said 1.418-acre parcel.

(3) These restrictions shall apply only so long as the lands of Grantee as described in said deed remain a golf course, defined for these purposes as total fairway yardage in excess of 1200 yards. In the event total fairway yardage should be reduced below 1200 total yards, these restrictions shall, in said event, no longer apply and shall no longer be valid or enforceable."

"FURTHER, SUBJECT, HOWEVER, to those covenants and conditions entered into between grantors BILL GRAHAM and SHIRLEY GRAHAM, his wife, and grantee, evidenced by separate agreement placed of record concurrently with the recordation of this grant, reserving to grantors BILL GRAHAM and SHIRLEY GRAHAM, his wife, their heirs, successors and assigns, the use of freeflowing waters in channels and ponds fed by springs from properties not subject of these grants, but traversing portions of Parcels 5, 4, and 3 as hereinabove described in this grant, and leading onto the lands of BILL GRAHAM and SHIRLEY GRAHAM, his wife, described in Volume 621 of Official Records at page 159, Santa Cruz County Recorder. Grantors BILL GRAHAM and SHIRLEY GRAHAM reserve an exclusive right to withdraw water for irrigation purposes to serve that property described in Volume 621 of Official Records, page 159, Santa Cruz County Recorder, and do thereby restrict the right of grantee to divert or obstruct said waters except as may be thereafter agreed upon in writing between said grantors, their heirs and assigns. These restrictions and conditions shall apply only to those water channels and ponds which flow into and empty into those lands retained by grantors and hereinabove described by reference.

PARCEL SIX:

BEING a part of the lands conveyed to Joseph Eberhardt, et ux, by Deed recorded April 18, 1939 in Volume 369, Page 149, Official Records of Santa Cruz County, more particularly described as follows:

BEGINNING on the center line of the road known as Lockwood Lane at the most Northern corner of that parcel of land conveyed to Klara Laquay by Deed recorded August 22, 1960 in Volume 1338, Page 19, Official Records of Santa Cruz County; thence from said point of beginning South 56° 04' East along the Northeasterly line of said lands of Laquay 790.0 feet, a little more or less, to the most Eastern corner thereof; thence leaving said corner North 33° 56' East 175.0 feet, a little more or less, to the Northeasterly line of said lands of Eberhardt; thence North 56° 12' West along said line 760.0 feet, a little more or less, to an angle; thence North 18° 25' East 338.57 feet to the most Southerly corner of that parcel of land conveyed to Raymond V. Liebenberg, et ux, by Deed recorded November 21, 1960 in Volume 1356 of Official Records of Santa Cruz County, at page 245; thence North 72° 00' West along the Southerly line of said last named lands 184.19 feet to a point on the center line of said Lockwood Lane; thence Southerly along the center line of said land, 545.0 feet, a little more or less, ot the point of beginning.

EXCEPTING therefrom so much of the herein described land as was conveyed to County of Santa Cruz by deed recorded August 9, 1962 in Volume 1488, Page 32, Official Records of Santa Cruz County.

PARCEL SEVEN:

BEING a portion of Parcel 3 of the lands conveyed to Joseph Eberhardt, et ux, by Trustee's Deed recorded in Volume 1747, Page 35, Official Records of Santa Cruz County, more particularly described as follows:

BEGINNING at the most Westerly corner of said Parcel 3; thence from said point of beginning along the Northwesterly and Northeasterly boundaries of said Parcel 3 North 33° 57' East 400 feet to the most Northerly corner thereof and South 56° 10' East 86 feet, more or less, to the most Northerly corner of the lands conveyed to Jun Lee, by Deed recorded in Volume 1906, Page 368, Official Records of Santa Cruz County; thence along the Northwesterly boundary of said lands of Lee South 33° 57' West 400 feet, more or less, to a point on the Southerwesterly boundary of said Parcel 3 of the lands conveyed to Eberhardt; thence leaving said lands of Lee along the Southwesterly boundary of said Parcel 3 North 56° 03' West 86 feet, more or less, to the point of beginning.

**VALLEY GARDENS GOLF COURSE**
263 MOUNT HERMON ROAD
SCOTTS VALLEY, CA 95066

**Inquiry Number: 06469411.5SR**
MAY 7, 2021

# EDR Environmental Lien and AUL Search

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

**Thank you for your business.**
Please contact EDR at 1-800-352-0050
with any questions or comments.

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# EDR Environmental Lien and AUL Search

## TARGET PROPERTY INFORMATION

### ADDRESS

VALLEY GARDENS GOLF COURSE
263 MOUNT HERMON ROAD
SCOTTS VALLEY, CA 95066

### RESEARCH SOURCE

Source 1: SANTA CRUZ COUNTY RECORDER'S OFFICE

Source 2: CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

### PROPERTY INFORMATION

**Deed 1**

| | |
|---|---|
| Type of Deed: | GRANT DEED |
| Title is vested in: | VALLEY GARDENS GOLF COURSE |
| Title received from: | STEVE BARATH |
| Date Executed: | 05/13/1983 |
| Date Recorded: | 05/20/1983 |
| Book: | 3572 |
| Page: | 341 |
| Volume: | NA |
| Instrument#: | NA |
| Docket: | NA |
| Land Record Comments: | NA |
| Miscellaneous Comments: | NA |

**Legal Description:** COMMONLY KNOWN AS 475 LOCKEWOOD LN IN SCOTTS VALLEY

**Current Owner:** VALLEY GARDENS GOLF COURSE

**Property Identifiers:** 021-231-02-000

**Comments:** NA

# EDR Environmental Lien and AUL Search

**ENVIRONMENTAL LIEN**

Environmental Lien: Found ☐ Not Found ☒

Comments: NONE IDENTIFIED.

**OTHER ACTIVITY AND USE LIMITATIONS (AULS)**

Other AUL's: Found ☐ Not Found ☒

Comments: NONE IDENTIFIED.

# EDR Environmental Lien and AUL Search

**MISCELLANEOUS**

Comments: NONE IDENTIFIED.

EDR Environmental Lien and AUL Search

**DEED EXHIBIT**

Order No.
Escrow No.
Loan No.

BOOK 3572 PAGE 341

22425

RECORDED AT THE REQUEST OF
Thomas Black
MAY 20 1983
12-46 pm
RICHARD W. BEDAL, Recorder
SANTA CRUZ COUNTY, Official Records

| RE | MI | SM | OP |
|---|---|---|---|
| 8 | 1 | 10 | |

WHEN RECORDED MAIL TO:

THOMAS A. BLACK, ESQ.
340 Soquel Avenue
Santa Cruz, CA 95062

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO:

DOCUMENTARY TRANSFER TAX $ NONE
..... Computed on the consideration or value of property conveyed; OR
..... Computed on the consideration or value less liens or encumbrances remaining at time of sale.

Signature of Declarant or Agent determining tax – Firm Name

# GRANT DEED

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, STEVE BARATH

hereby GRANT(S) to VALLEY GARDENS GOLF COURSE, a corporation

the real property in the City of Scotts Valley
County of Santa Cruz , State of California, described as

SEE EXHIBIT "A" ATTACHED HERETO AND INCORPORATED HEREIN BY REFERENCE.

APN: 21-011 part of 6
21-011 part of 7
21-011 part of 10
21-011 part of 12
21-011-1
21-031-9

Dated May 13, 1983

Steve Barath
STEVE BARATH

STATE OF CALIFORNIA }
COUNTY OF Santa Cruz } ss.

On May 13, 1983
before me, the undersigned, a Notary Public in and for said State, personally appeared STEVE BARATH

known to me to be the person – whose name is subscribed to the within instrument and acknowledged that he executed the same.

WITNESS my hand and official seal.

Signature Janet I. Jennings

OFFICIAL SEAL
JANET I. JENNINGS
NOTARY PUBLIC – CALIFORNIA
COUNTY OF SANTA CLARA
Comm. Exp. March 26, 1985

(This area for official notarial seal)

1002 (10/69)

MAIL TAX STATEMENTS AS DIRECTED ABOVE

PARCEL ONE:

Situate in the Southeast 1/4 of projected Section 24, T. 10 S., R. 2 W., M.D.B.&M., in the San Augustine Rancho, Santa Cruz County, California, and being part of the lands of Bill Graham, et ux, described in Volume 1122, page 299, Official Records of Santa Cruz County, and being more particularly described as follows:

BEGINNING at a 1/2 inch pipe set on the Northeastern boundary of the lands of J. Jackson Graham, et ux, described in Volume 1828, page 718, Official Records of Santa Cruz County, from which a 1/2 inch pipe found tagged L.S. 1225 at the Northwestern corner of said lands bears North 65° 51' 30" West 25.30 feet distant; thence from said point of beginning North 33° 25' 30" East 243.32 feet to a 1/2 inch pipe set on the Southern sideline of the county road known as the Mount Hermon Road; thence along said sideline on a curve to the left, from a tangent bearing South 70° 38' East, with a radius of 540 feet, through a central angle of 14° 45' 40", an arc distance of 132.78 feet to the end of said curve as shown on the Record of Survey Map of said road filed in Volume 32 of Maps, page 62 in the Office of the Santa Cruz County Recorder, being sheet 2 of 4 sheets; thence continue along said sideline as shown South 86° 48' 40" East 49.00 feet; thence leave said sideline South 33° 26' West 185.00 feet to a 1/2 inch pipe; thence South 56° 34' East 144.00 feet to a 1/2 inch pipe, thence South 33° 26' West 80.21 feet to a 1/2 inch pipe set on the aforementioned Northeastern boundary of said lands of J. Jackson Graham, et ux,; thence along said boundary North 65° 51' 30" West 313.40 feet to the point of beginning.

PARCEL TWO:

Situate in the Southeast 1/4 of projected Section 24, T. 10 S., R. 2 W., M.D.B. and M., in the San Augustine Rancho, Santa Cruz County, California, and being a part of the lands of Bill Graham, et ux, described in Volume 1122, Page 299, of Santa Cruz County Official Records, and being more particularly described as follows:

BEGINNING at a 1/2 inch pipe, tagged L.S. 1225, found at the Northeastern corner of the lands of J. Jackson Graham, et ux, described in Volume 1828, Page 718, of Official Records of Santa Cruz County; thence along the Eastern production of the Northeastern boundary of said lands South 65° 51' 30" East 438.00 feet to a 1/2 inch pipe; thence South 24° 50' West 49.00 feet to a 1/2 inch pipe set on the western sideline of a mobile home park described as Parcel 4 in the Deed to Spring Lakes Park, a partnership, recorded in Volume 2235, Page 403, Official Records of Santa Cruz County; thence along said boundary on a curve to the left in a Southwestern direction from a tangent bearing South 87° 55' West, with a radius of 570 feet, through a central angle of 15° 33', an arc distance of 134.80 feet to a 1/2 inch pipe set at a point of tangency; thence South 74° 22' West 162.65 feet to a 1/2 inch pipe set at a point of curve; thence along a curve to the left, with a radius of 470 feet, through a central angle of 42° 10' an arc distance of 345.90 feet to a 1/2 inch pipe set at a point of tangency; thence South 32° 12' West 352.31 feet to a 1/2 inch pipe set on the southern boundary of the said lands of Bill Graham, et ux; thence along said boundary North 31° 57' West 139.88 feet to a 1/2 inch pipe tagged L.S. 1225 found at the Westernmost corner of said lands; thence North 33° 38' 40" East 803.25 feet to the point of beginning.

PARCEL THREE:

Situate in the Southeast 1/4 of projected Section 24, T. 10 S., R. 2 W., M.D.B. and M., in the San Augustine Rancho, Santa Cruz County, California, and being a part of the lands of Bill Graham and Shirley Graham, his wife, as described in Volume 621, Page 159, Official Records of Santa Cruz County, and in Volume 1629, Page 565, Official Records of Santa Cruz County, and being more particularly described as follows:

EXHIBIT "A"

BEGINNING at a 1/2 inch pipe set on the Eastern boundary of said lands from which the Northwestern corner of the lands of Donald M. Hall and Helen G. Hall, his wife, described in Volume 1669, Page 177, Official Records of Santa Cruz County, bears South 33° 25' 30" West 54.37 feet distant; thence along said eastern boundary North 33° 25' 30" East 215.95 feet to the centerline of the P. G. & E. Easement described in Volume 999, Page 426, Official Records of Santa Cruz County, said centerline bears North 61° 54' West; thence continue North 33° 25' 30" East 215.95 feet, a total of 431.90 feet to a 1/2 inch pipe; thence leave said eastern boundary North 61° 54' West 208.50 feet to a 1/2 inch pipe from which a 1/2 inch pipe set on the Eastern boundary of the county road known as Lockewood Lane bears North 61° 54' West 126.95 feet distance; thence along a line parallel to and 125.00 feet distant from said Eastern boundary of Lockewood Lane South 18° 02' West 178.44 feet to a 1/2 inch pipe; thence South 6° 15' 50" West 61.29 feet to a 1/2 inch pipe; thence South 18° 02' West 200.63 feet to a 1/2 inch pipe from which a 1/2 inch pipe set on the Eastern boundary of said Lockewood Lane bears North 61° 54' West 126.95 feet distant; thence South 61° 54' East 79.61 feet to the point of beginning.

PARCEL FOUR:

Situate in the Southeast 1/4 of projected Section 24, T. 10 S., R. 2 W., M.D.B. and M., in the San Augustine Rancho, Santa Cruz County, California, and being a part of Parcel One of the lands of J. Jackson Graham and Lola A. Graham, his wife, described in Volume 1828, Page 718, Official Records of Santa Cruz County, and being more particularly described as follows:

BEGINNING at a 1/2 inch pipe found at the Southeastern corner of said Parcel One, being also the Southwestern corner of the lands of Walter B. Sims, et ux, described in Volume 1941, Page 154, Official Records of Santa Cruz County; thence along the Northwestern boundary of said lands North 47° 05' East 392.23 feet to a 1/2 inch pipe found at the Northwestern corner thereof; thence leaving said lands of Sims along the boundary of said Parcel One, North 31° 54' West 271.30 feet; thence North 33° 50' East 803.25 feet; thence North 65° 51' West 511.87 feet to a 1/2 inch pipe from which a 1/2 inch pipe tagged L.S. 1225 found at the Northwestern corner of said Parcel One bears North 65° 10' West 25.30 feet distant; thence along a line 25.00 feet distant from and parallel to, the Northwestern boundary of said Parcel One South 33° 25' 30" West 193.83 feet to a 1/2 inch pipe; thence North 61° 54' West 25.12 feet to a station on the Northwestern boundary of said Parcel One; thence along said boundary South 33° 25' 30" West 486.27 feet to the Northwestern corner of the lands of Donald M. Hall, et ux, recorded in Volume 1669, Page 177, Official Records of Santa Cruz County, thence along the northern boundary of said lands South 65° 13' 10" East 270.10 feet; thence along the eastern boundary of said lands South 24° 38' 10" West 287.83 feet to a 1/2 inch pipe tagged R. E. 11423; thence South 25° 10' 50" East 54.85 feet to a station on the southwestern boundary of a 25 foot wide right of way from which a 1/2 inch pipe tagged R. E. 11423 bears South 25° 11' East 2.14 feet distant; thence leave said lands of Hall, along said southwestern boundary South 47° 20' East 92.23 feet to a 1/2 inch pipe; thence South 37° 52' West 245.65 feet to a 1/2 inch pipe set on the southern boundary of the aforementioned Parcel One; thence along said boundary South 56° 16' East 253.13 feet to the point of beginning.

TOGETHER WITH a 25 foot wide right of way leading from the Northwestern boundary of the herein described parcel to the county raod known as Lockewood Lane, the centerline of which is more particularly described as follows:

BEGINNING at a station on the northwestern boundary of the herein described parcel from which the northwestern corner of the lands of Donald M. Hall, et ux, bears South 33° 25' 30" West 41.82 feet distant; thence North 61° 54' West 203.17 feet to the eastern boundary of Lockewood Lane County Road, as shown on the Record of Survey Map filed in Volume 40 at Page 74, of Maps, in the Office of the Santa Cruz County Recorder.

PARCEL FIVE:

Situate in the Southeast 1/4 of projected Section 24, T. 10 S., R. 2 W., M.D.B. and M., in the San Augustine Rancho, Santa Cruz County, California, and being a part of the lands of Donald M. Hall and Helen G. Hall, his wife, described in Volume 1669, Page 177, of Santa Cruz County Official Records, and being more particularly described as follows:

BEGINNING at a 1 inch untagged pipe standing at the Westernmost corner of said lands; thence along the Western boundary of said lands North 33° 25' 30" East 212.72 feet to the Northwestern corner thereof; thence along the Northern boundary of said lands South 65° 32' East 270.10 feet; thence South 24° 20' West 287.83 feet to a 1/2 inch pipe tagged R. E. 11423; thence South 25° 29' East 54.85 feet to the southwestern sideline of a 25 foot wide right of way from which a 1/2 inch pipe tagged R. E. 11423 bears South 25° 29' East 2.14 feet distant; thence along said sideline and the western production thereof North 47° 20' West 362.98 feet to the point of beginning.

SUBJECT to a 25 foot wide right of way, the Western and Southern boundary of which are described as follows:

BEGINNING at a point from which the Northwestern corner of said lands of Hall bears North 65° 32' West 25.61 feet distant; thence along said Western sideline South 18° 03' 20" West 239.73 feet to a point on the Southwestern boundary of said lands of Hall from which the westernmost corner of said lands bears North 47° 20' West 90.00 feet distant; thence along said boundary South 47° 20' East 272.98 feet.

"SUBJECT, HOWEVER, to those covenants and conditions agreed to by grantors BILL GRAHAM and SHIRLEY GRAHAM, his wife, and Grantee, to be placed on record concurrently with this grant, limiting the rights of grantee, his heirs, successors, assigns, executors and administrators, to construct, build, erect, or cause to be constructed, built or erected, any structures or buildings upon that portion of those above-described lands subject to this grant, the limitations if which are described as follows:

(1) that portion of the above-described lands situate adjacent to the lands of Bill Graham and Shirley Graham described in part of Book 1122, at page 299, Official Records, Santa Cruz County Recorder, and more specifically consisting of a zone 300 feet in depth running southerly from that portion of the northeasterly boundary line of the lands of Grantee as they adjoin a portion of the lands of Bill Graham and Shirley Graham, more particularly described as that line starting at a point 198.47 feet westerly from a one-half inch pipe, tagged "LS1225", found at the north-eastern corner of the lands of John Jackson Graham, et ux, described in Volume 1828, page 718, Santa Cruz County Official Records; bearing North 65° 51'; thence proceeding from said point North 65° 51' 30" Easterly 198.47 ft. to said one-half inch pipe, tagged "LS 1225", thence along the eastern production of the northeastern boundary of said lands 65° 51' 30" East 438 feet to a half-inch pipe;

(2) that portion of the above-described lands situate adjacent to the lands of Bill Graham and Shirley Graham described in part in Book 621, page 159, and in Book 1529, page 565, Official Records, Santa Cruz County Recorder, and more specifically consisting of a zone 300 feet in depth running easterly from the westernmost extension of the lands of Grantee, consisting of that 1.418-acre parcel made a part of this conveyance and more particularly described as that North-South boundary line which forms the westerly boundary of said 1.418-acre parcel.

(3) These restrictions shall apply only so long as the lands of Grantee as described in said deed remain a golf course, defined for these purposes as total fairway yardage in excess of 1200 yards. In the event total fairway yardage should be reduced below 1200 total yards, these restrictions shall, in said event, no longer apply and shall no longer be valid or enforceable."

"FURTHER, SUBJECT, HOWEVER, to those covenants and conditions entered into between grantors BILL GRAHAM and SHIRLEY GRAHAM, his wife, and grantee, evidenced by separate agreement placed of record concurrently with the recordation of this grant, reserving to grantors BILL GRAHAM and SHIRLEY GRAHAM, his wife, their heirs, successors and assigns, the use of freeflowing waters in channels and ponds fed by springs from properties not subject of these grants, but traversing portions of Parcels 5, 4, and 3 as hereinabove described in this grant, and leading onto the lands of BILL GRAHAM and SHIRLEY GRAHAM, his wife, described in Volume 621 of Official Records at page 159, Santa Cruz County Recorder. Grantors BILL GRAHAM and SHIRLEY GRAHAM reserve an exclusive right to withdraw water for irrigation purposes to serve that property described in Volume 621 of Official Records, page 159, Santa Cruz County Recorder, and do thereby restrict the right of grantee to divert or obstruct said waters except as may be thereafter agreed upon in writing between said grantors, their heirs and assigns. These restrictions and conditions shall apply only to those water channels and ponds which flow into and empty into those lands retained by grantors and hereinabove described by reference.

PARCEL SIX:

BEING a part of the lands conveyed to Joseph Eberhardt, et ux, by Deed recorded April 18, 1939 in Volume 369, Page 149, Official Records of Santa Cruz County, more particularly described as follows:

BEGINNING on the center line of the road known as Lockwood Lane at the most Northern corner of that parcel of land conveyed to Klara Laquay by Deed recorded August 22, 1960 in Volume 1338, Page 19, Official Records of Santa Cruz County; thence from said point of beginning South 56° 04' East along the Northeasterly line of said lands of Laquay 790.0 feet, a little more or less, to the most Eastern corner thereof; thence leaving said corner North 33° 56' East 175.0 feet, a little more or less, to the Northeasterly line of said lands of Eberhardt; thence North 56° 12' West along said line 760.0 feet, a little more or less, to an angle; thence North 18° 25' East 338.57 feet to the most Southerly corner of that parcel of land conveyed to Raymond V. Liebenberg, et ux, by Deed recorded November 21, 1960 in Volume 1356 of Official Records of Santa Cruz County, at page 245; thence North 72° 00' West along the Southerly line of said last named lands 184.19 feet to a point on the center line of said Lockwood Lane; thence Southerly along the center line of said land, 545.0 feet, a little more or less, ot the point of beginning.

EXCEPTING therefrom so much of the herein described land as was conveyed to County of Santa Cruz by deed recorded August 9, 1962 in Volume 1488, Page 32, Official Records of Santa Cruz County.

PARCEL SEVEN:

BEING a portion of Parcel 3 of the lands conveyed to Joseph Eberhardt, et ux, by Trustee's Deed recorded in Volume 1747, Page 35, Official Records of Santa Cruz County, more particularly described as follows:

BEGINNING at the most Westerly corner of said Parcel 3; thence from said point of beginning along the Northwesterly and Northeasterly boundaries of said Parcel 3 North 33° 57' East 400 feet to the most Northerly corner thereof and South 56° 10' East 86 feet, more or less, to the most Northerly corner of the lands conveyed to Jun Lee, by Deed recorded in Volume 1906, Page 368, Official Records of Santa Cruz County; thence along the Northwesterly boundary of said lands of Lee South 33° 57' West 400 feet, more or less, to a point on the Southerwesterly boundary of said Parcel 3 of the lands conveyed to Eberhardt; thence leaving said lands of Lee along the Southwesterly boundary of said Parcel 3 North 56° 03' West 86 feet, more or less, to the point of beginning.

**VALLEY GARDENS GOLF COURSE**
263 MOUNT HERMON ROAD
SCOTTS VALLEY, CA 95066

**Inquiry Number: 06469411.5SR**
MAY 7, 2021

# EDR Environmental Lien and AUL Search

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

**Thank you for your business.**
Please contact EDR at 1-800-352-0050
with any questions or comments.

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# EDR Environmental Lien and AUL Search

## TARGET PROPERTY INFORMATION

### ADDRESS

VALLEY GARDENS GOLF COURSE
263 MOUNT HERMON ROAD
SCOTTS VALLEY, CA 95066

### RESEARCH SOURCE

Source 1: SANTA CRUZ COUNTY RECORDER'S OFFICE

Source 2: CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

### PROPERTY INFORMATION

**Deed 1**

| | |
|---|---|
| Type of Deed: | GRANT DEED |
| Title is vested in: | VALLEY GARDENS GOLF COURSE |
| Title received from: | STEVE BARATH |
| Date Executed: | 05/13/1983 |
| Date Recorded: | 05/20/1983 |
| Book: | 3572 |
| Page: | 341 |
| Volume: | NA |
| Instrument#: | NA |
| Docket: | NA |
| Land Record Comments: | NA |
| Miscellaneous Comments: | NA |

**Legal Description:** COMMONLY KNOWN AS 263 MOUNT HERMON RD IN SCOTTS VALLEY

**Current Owner:** VALLEY GARDENS GOLF COURSE

**Property Identifiers:** 021-231-04-000

**Comments:** NA

# EDR Environmental Lien and AUL Search

**ENVIRONMENTAL LIEN**

Environmental Lien: Found ☐ Not Found ☒

Comments: NONE IDENTIFIED.

**OTHER ACTIVITY AND USE LIMITATIONS (AULS)**

Other AUL's: Found ☐ Not Found ☒

Comments: NONE IDENTIFIED.

# EDR Environmental Lien and AUL Search

**MISCELLANEOUS**

Comments: NONE IDENTIFIED.

EDR Environmental Lien and AUL Search

**DEED EXHIBIT**

Order No.
Escrow No.
Loan No.

BOOK 3572 PAGE 341

22425

RECORDED AT THE REQUEST OF
Thomas Black
MAY 20 1983
12-46 pm
RICHARD W. BEDAL, Recorder
SANTA CRUZ COUNTY, Official Records

| RE | MI | SM | OP |
|---|---|---|---|
| 8 | 1 | 10 | |

WHEN RECORDED MAIL TO:

THOMAS A. BLACK, ESQ.
340 Soquel Avenue
Santa Cruz, CA 95062

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO:

DOCUMENTARY TRANSFER TAX $ NONE
..... Computed on the consideration or value of property conveyed; OR
..... Computed on the consideration or value less liens or encumbrances remaining at time of sale.

Signature of Declarant or Agent determining tax – Firm Name

# GRANT DEED

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, STEVE BARATH

hereby GRANT(S) to VALLEY GARDENS GOLF COURSE, a corporation

the real property in the City of Scotts Valley
County of Santa Cruz , State of California, described as

SEE EXHIBIT "A" ATTACHED HERETO AND INCORPORATED HEREIN BY REFERENCE.

APN: 21-011 part of 6
21-011 part of 7
21-011 part of 10
21-011 part of 12
21-011-1
21-031-9

Dated May 13, 1983

Steve Barath
STEVE BARATH

STATE OF CALIFORNIA }
COUNTY OF Santa Cruz } ss.

On May 13, 1983
before me, the undersigned, a Notary Public in and for said State, personally appeared STEVE BARATH

known to me to be the person – whose name is subscribed to the within instrument and acknowledged that he executed the same.

WITNESS my hand and official seal.

Signature Janet I. Jennings

OFFICIAL SEAL
JANET I. JENNINGS
NOTARY PUBLIC – CALIFORNIA
COUNTY OF SANTA CLARA
Comm. Exp. March 26, 1985

(This area for official notarial seal)

1002 (10/69)

MAIL TAX STATEMENTS AS DIRECTED ABOVE

PARCEL ONE:

Situate in the Southeast 1/4 of projected Section 24, T. 10 S., R. 2 W., M.D.B.&M., in the San Augustine Rancho, Santa Cruz County, California, and being part of the lands of Bill Graham, et ux, described in Volume 1122, page 299, Official Records of Santa Cruz County, and being more particularly described as follows:

BEGINNING at a 1/2 inch pipe set on the Northeastern boundary of the lands of J. Jackson Graham, et ux, described in Volume 1828, page 718, Official Records of Santa Cruz County, from which a 1/2 inch pipe found tagged L.S. 1225 at the Northwestern corner of said lands bears North 65° 51' 30" West 25.30 feet distant; thence from said point of beginning North 33° 25' 30" East 243.32 feet to a 1/2 inch pipe set on the Southern sideline of the county road known as the Mount Hermon Road; thence along said sideline on a curve to the left, from a tangent bearing South 70° 38' East, with a radius of 540 feet, through a central angle of 14° 45' 40", an arc distance of 132.78 feet to the end of said curve as shown on the Record of Survey Map of said road filed in Volume 32 of Maps, page 62 in the Office of the Santa Cruz County Recorder, being sheet 2 of 4 sheets; thence continue along said sideline as shown South 86° 48' 40" East 49.00 feet; thence leave said sideline South 33° 26' West 185.00 feet to a 1/2 inch pipe; thence South 56° 34' East 144.00 feet to a 1/2 inch pipe, thence South 33° 26' West 80.21 feet to a 1/2 inch pipe set on the aforementioned Northeastern boundary of said lands of J. Jackson Graham, et ux,; thence along said boundary North 65° 51' 30" West 313.40 feet to the point of beginning.

PARCEL TWO:

Situate in the Southeast 1/4 of projected Section 24, T. 10 S., R. 2 W., M.D.B. and M., in the San Augustine Rancho, Santa Cruz County, California, and being a part of the lands of Bill Graham, et ux, described in Volume 1122, Page 299, of Santa Cruz County Official Records, and being more particularly described as follows:

BEGINNING at a 1/2 inch pipe, tagged L.S. 1225, found at the Northeastern corner of the lands of J. Jackson Graham, et ux, described in Volume 1828, Page 718, of Official Records of Santa Cruz County; thence along the Eastern production of the Northeastern boundary of said lands South 65° 51' 30" East 438.00 feet to a 1/2 inch pipe; thence South 24° 50' West 49.00 feet to a 1/2 inch pipe set on the western sideline of a mobile home park described as Parcel 4 in the Deed to Spring Lakes Park, a partnership, recorded in Volume 2235, Page 403, Official Records of Santa Cruz County; thence along said boundary on a curve to the left in a Southwestern direction from a tangent bearing South 87° 55' West, with a radius of 570 feet, through a central angle of 15° 33', an arc distance of 134.80 feet to a 1/2 inch pipe set at a point of tangency; thence South 74° 22' West 162.65 feet to a 1/2 inch pipe set at a point of curve; thence along a curve to the left, with a radius of 470 feet, through a central angle of 42° 10' an arc distance of 345.90 feet to a 1/2 inch pipe set at a point of tangency; thence South 32° 12' West 352.31 feet to a 1/2 inch pipe set on the southern boundary of the said lands of Bill Graham, et ux; thence along said boundary North 31° 57' West 139.88 feet to a 1/2 inch pipe tagged L.S. 1225 found at the Westernmost corner of said lands; thence North 33° 38' 40" East 803.25 feet to the point of beginning.

PARCEL THREE:

Situate in the Southeast 1/4 of projected Section 24, T. 10 S., R. 2 W., M.D.B. and M., in the San Augustine Rancho, Santa Cruz County, California, and being a part of the lands of Bill Graham and Shirley Graham, his wife, as described in Volume 621, Page 159, Official Records of Santa Cruz County, and in Volume 1629, Page 565, Official Records of Santa Cruz County, and being more particularly described as follows:

EXHIBIT "A"

BEGINNING at a 1/2 inch pipe set on the Eastern boundary of said lands from which the Northwestern corner of the lands of Donald M. Hall and Helen G. Hall, his wife, described in Volume 1669, Page 177, Official Records of Santa Cruz County, bears South 33° 25' 30" West 54.37 feet distant; thence along said eastern boundary North 33° 25' 30" East 215.95 feet to the centerline of the P. G. & E. Easement described in Volume 999, Page 426, Official Records of Santa Cruz County, said centerline bears North 61° 54' West; thence continue North 33° 25' 30" East 215.95 feet, a total of 431.90 feet to a 1/2 inch pipe; thence leave said eastern boundary North 61° 54' West 208.50 feet to a 1/2 inch pipe from which a 1/2 inch pipe set on the Eastern boundary of the county road known as Lockewood Lane bears North 61° 54' West 126.95 feet distance; thence along a line parallel to and 125.00 feet distant from said Eastern boundary of Lockewood Lane South 18° 02' West 178.44 feet to a 1/2 inch pipe; thence South 6° 15' 50" West 61.29 feet to a 1/2 inch pipe; thence South 18° 02' West 200.63 feet to a 1/2 inch pipe from which a 1/2 inch pipe set on the Eastern boundary of said Lockewood Lane bears North 61° 54' West 126.95 feet distant; thence South 61° 54' East 79.61 feet to the point of beginning.

PARCEL FOUR:

Situate in the Southeast 1/4 of projected Section 24, T. 10 S., R. 2 W., M.D.B. and M., in the San Augustine Rancho, Santa Cruz County, California, and being a part of Parcel One of the lands of J. Jackson Graham and Lola A. Graham, his wife, described in Volume 1828, Page 718, Official Records of Santa Cruz County, and being more particularly described as follows:

BEGINNING at a 1/2 inch pipe found at the Southeastern corner of said Parcel One, being also the Southwestern corner of the lands of Walter B. Sims, et ux, described in Volume 1941, Page 154, Official Records of Santa Cruz County; thence along the Northwestern boundary of said lands North 47° 05' East 392.23 feet to a 1/2 inch pipe found at the Northwestern corner thereof; thence leaving said lands of Sims along the boundary of said Parcel One, North 31° 54' West 271.30 feet; thence North 33° 50' East 803.25 feet; thence North 65° 51' West 511.87 feet to a 1/2 inch pipe from which a 1/2 inch pipe tagged L.S. 1225 found at the Northwestern corner of said Parcel One bears North 65° 10' West 25.30 feet distant; thence along a line 25.00 feet distant from and parallel to, the Northwestern boundary of said Parcel One South 33° 25' 30" West 193.83 feet to a 1/2 inch pipe; thence North 61° 54' West 25.12 feet to a station on the Northwestern boundary of said Parcel One; thence along said boundary South 33° 25' 30" West 486.27 feet to the Northwestern corner of the lands of Donald M. Hall, et ux, recorded in Volume 1669, Page 177, Official Records of Santa Cruz County, thence along the northern boundary of said lands South 65° 13' 10" East 270.10 feet; thence along the eastern boundary of said lands South 24° 38' 10" West 287.83 feet to a 1/2 inch pipe tagged R. E. 11423; thence South 25° 10' 50" East 54.85 feet to a station on the southwestern boundary of a 25 foot wide right of way from which a 1/2 inch pipe tagged R. E. 11423 bears South 25° 11' East 2.14 feet distant; thence leave said lands of Hall, along said southwestern boundary South 47° 20' East 92.23 feet to a 1/2 inch pipe; thence South 37° 52' West 245.65 feet to a 1/2 inch pipe set on the southern boundary of the aforementioned Parcel One; thence along said boundary South 56° 16' East 253.13 feet to the point of beginning.

TOGETHER WITH a 25 foot wide right of way leading from the Northwestern boundary of the herein described parcel to the county raod known as Lockewood Lane, the centerline of which is more particularly described as follows:

BEGINNING at a station on the northwestern boundary of the herein described parcel from which the northwestern corner of the lands of Donald M. Hall, et ux, bears South 33° 25' 30" West 41.82 feet distant; thence North 61° 54' West 203.17 feet to the eastern boundary of Lockewood Lane County Road, as shown on the Record of Survey Map filed in Volume 40 at Page 74, of Maps, in the Office of the Santa Cruz County Recorder.

PARCEL FIVE:

Situate in the Southeast 1/4 of projected Section 24, T. 10 S., R. 2 W., M.D.B. and M., in the San Augustine Rancho, Santa Cruz County, California, and being a part of the lands of Donald M. Hall and Helen G. Hall, his wife, described in Volume 1669, Page 177, of Santa Cruz County Official Records, and being more particularly described as follows:

BEGINNING at a 1 inch untagged pipe standing at the Westernmost corner of said lands; thence along the Western boundary of said lands North 33° 25' 30" East 212.72 feet to the Northwestern corner thereof; thence along the Northern boundary of said lands South 65° 32' East 270.10 feet; thence South 24° 20' West 287.83 feet to a 1/2 inch pipe tagged R. E. 11423; thence South 25° 29' East 54.85 feet to the southwestern sideline of a 25 foot wide right of way from which a 1/2 inch pipe tagged R. E. 11423 bears South 25° 29' East 2.14 feet distant; thence along said sideline and the western production thereof North 47° 20' West 362.98 feet to the point of beginning.

SUBJECT to a 25 foot wide right of way, the Western and Southern boundary of which are described as follows:

BEGINNING at a point from which the Northwestern corner of said lands of Hall bears North 65° 32' West 25.61 feet distant; thence along said Western sideline South 18° 03' 20" West 239.73 feet to a point on the Southwestern boundary of said lands of Hall from which the westernmost corner of said lands bears North 47° 20' West 90.00 feet distant; thence along said boundary South 47° 20' East 272.98 feet.

"SUBJECT, HOWEVER, to those covenants and conditions agreed to by grantors BILL GRAHAM and SHIRLEY GRAHAM, his wife, and Grantee, to be placed on record concurrently with this grant, limiting the rights of grantee, his heirs, successors, assigns, executors and administrators, to construct, build, erect, or cause to be constructed, built or erected, any structures or buildings upon that portion of those above-described lands subject to this grant, the limitations if which are described as follows:

(1) that portion of the above-described lands situate adjacent to the lands of Bill Graham and Shirley Graham described in part of Book 1122, at page 299, Official Records, Santa Cruz County Recorder, and more specifically consisting of a zone 300 feet in depth running southerly from that portion of the northeasterly boundary line of the lands of Grantee as they adjoin a portion of the lands of Bill Graham and Shirley Graham, more particularly described as that line starting at a point 198.47 feet westerly from a one-half inch pipe, tagged "LS1225", found at the north-eastern corner of the lands of John Jackson Graham, et ux, described in Volume 1828, page 718, Santa Cruz County Official Records; bearing North 65° 51'; thence proceeding from said point North 65° 51' 30" Easterly 198.47 ft. to said one-half inch pipe, tagged "LS 1225", thence along the eastern production of the northeastern boundary of said lands 65° 51' 30" East 438 feet to a half-inch pipe;

(2) that portion of the above-described lands situate adjacent to the lands of Bill Graham and Shirley Graham described in part in Book 621, page 159, and in Book 1529, page 565, Official Records, Santa Cruz County Recorder, and more specifically consisting of a zone 300 feet in depth running easterly from the westernmost extension of the lands of Grantee, consisting of that 1.418-acre parcel made a part of this conveyance and more particularly described as that North-South boundary line which forms the westerly boundary of said 1.418-acre parcel.

(3) These restrictions shall apply only so long as the lands of Grantee as described in said deed remain a golf course, defined for these purposes as total fairway yardage in excess of 1200 yards. In the event total fairway yardage should be reduced below 1200 total yards, these restrictions shall, in said event, no longer apply and shall no longer be valid or enforceable."

"FURTHER, SUBJECT, HOWEVER, to those covenants and conditions entered into between grantors BILL GRAHAM and SHIRLEY GRAHAM, his wife, and grantee, evidenced by separate agreement placed of record concurrently with the recordation of this grant, reserving to grantors BILL GRAHAM and SHIRLEY GRAHAM, his wife, their heirs, successors and assigns, the use of freeflowing waters in channels and ponds fed by springs from properties not subject of these grants, but traversing portions of Parcels 5, 4, and 3 as hereinabove described in this grant, and leading onto the lands of BILL GRAHAM and SHIRLEY GRAHAM, his wife, described in Volume 621 of Official Records at page 159, Santa Cruz County Recorder. Grantors BILL GRAHAM and SHIRLEY GRAHAM reserve an exclusive right to withdraw water for irrigation purposes to serve that property described in Volume 621 of Official Records, page 159, Santa Cruz County Recorder, and do thereby restrict the right of grantee to divert or obstruct said waters except as may be thereafter agreed upon in writing between said grantors, their heirs and assigns. These restrictions and conditions shall apply only to those water channels and ponds which flow into and empty into those lands retained by grantors and hereinabove described by reference.

PARCEL SIX:

BEING a part of the lands conveyed to Joseph Eberhardt, et ux, by Deed recorded April 18, 1939 in Volume 369, Page 149, Official Records of Santa Cruz County, more particularly described as follows:

BEGINNING on the center line of the road known as Lockwood Lane at the most Northern corner of that parcel of land conveyed to Klara Laquay by Deed recorded August 22, 1960 in Volume 1338, Page 19, Official Records of Santa Cruz County; thence from said point of beginning South 56° 04' East along the Northeasterly line of said lands of Laquay 790.0 feet, a little more or less, to the most Eastern corner thereof; thence leaving said corner North 33° 56' East 175.0 feet, a little more or less, to the Northeasterly line of said lands of Eberhardt; thence North 56° 12' West along said line 760.0 feet, a little more or less, to an angle; thence North 18° 25' East 338.57 feet to the most Southerly corner of that parcel of land conveyed to Raymond V. Liebenberg, et ux, by Deed recorded November 21, 1960 in Volume 1356 of Official Records of Santa Cruz County, at page 245; thence North 72° 00' West along the Southerly line of said last named lands 184.19 feet to a point on the center line of said Lockwood Lane; thence Southerly along the center line of said land, 545.0 feet, a little more or less, ot the point of beginning.

EXCEPTING therefrom so much of the herein described land as was conveyed to County of Santa Cruz by deed recorded August 9, 1962 in Volume 1488, Page 32, Official Records of Santa Cruz County.

PARCEL SEVEN:

BEING a portion of Parcel 3 of the lands conveyed to Joseph Eberhardt, et ux, by Trustee's Deed recorded in Volume 1747, Page 35, Official Records of Santa Cruz County, more particularly described as follows:

BEGINNING at the most Westerly corner of said Parcel 3; thence from said point of beginning along the Northwesterly and Northeasterly boundaries of said Parcel 3 North 33° 57' East 400 feet to the most Northerly corner thereof and South 56° 10' East 86 feet, more or less, to the most Northerly corner of the lands conveyed to Jun Lee, by Deed recorded in Volume 1906, Page 368, Official Records of Santa Cruz County; thence along the Northwesterly boundary of said lands of Lee South 33° 57' West 400 feet, more or less, to a point on the Southerwesterly boundary of said Parcel 3 of the lands conveyed to Eberhardt; thence leaving said lands of Lee along the Southwesterly boundary of said Parcel 3 North 56° 03' West 86 feet, more or less, to the point of beginning.

**VALLEY GARDENS GOLF COURSE**
263 MOUNT HERMON ROAD
SCOTTS VALLEY, CA 95066

**Inquiry Number: 06469411.5SR**
MAY 7, 2021

# EDR Environmental Lien and AUL Search

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

**Thank you for your business.**
Please contact EDR at 1-800-352-0050
with any questions or comments.

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# EDR Environmental Lien and AUL Search

## TARGET PROPERTY INFORMATION

### ADDRESS

VALLEY GARDENS GOLF COURSE
263 MOUNT HERMON ROAD
SCOTTS VALLEY, CA 95066

### RESEARCH SOURCE

Source 1: SANTA CRUZ COUNTY RECORDER'S OFFICE

Source 2: CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

### PROPERTY INFORMATION

**Deed 1**

| | |
|---|---|
| Type of Deed: | GRANT DEED |
| Title is vested in: | VALLEY GARDENS GOLF COURSE |
| Title received from: | STEVE BARATH |
| Date Executed: | 05/13/1983 |
| Date Recorded: | 05/20/1983 |
| Book: | 3572 |
| Page: | 341 |
| Volume: | NA |
| Instrument#: | NA |
| Docket: | NA |
| Land Record Comments: | NA |
| Miscellaneous Comments: | NA |

**Legal Description:** COMMONLY KNOWN AS 263 MOUNT HERMON RD IN SCOTTS VALLEY

**Current Owner:** VALLEY GARDENS GOLF COURSE

**Property Identifiers:** 021-231-07-000

**Comments:** NA

# EDR Environmental Lien and AUL Search

**ENVIRONMENTAL LIEN**

Environmental Lien: Found ☐ Not Found ☒

Comments: NONE IDENTIFIED.

**OTHER ACTIVITY AND USE LIMITATIONS (AULS)**

Other AUL's: Found ☐ Not Found ☒

Comments: NONE IDENTIFIED.

# EDR Environmental Lien and AUL Search

**MISCELLANEOUS**

Comments: NONE IDENTIFIED.

EDR Environmental Lien and AUL Search

**DEED EXHIBIT**

Order No.
Escrow No.
Loan No.

BOOK 3572 PAGE 341

22425

RECORDED AT THE REQUEST OF
Thomas Black
MAY 20 1983
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SANTA CRUZ COUNTY, Official Records

| RE | MI | SM | OP |
|---|---|---|---|
| 8 | 1 | 10 | |

WHEN RECORDED MAIL TO:

THOMAS A. BLACK, ESQ.
340 Soquel Avenue
Santa Cruz, CA 95062

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO:

DOCUMENTARY TRANSFER TAX $ NONE
..... Computed on the consideration or value of property conveyed; OR
..... Computed on the consideration or value less liens or encumbrances remaining at time of sale.

Signature of Declarant or Agent determining tax – Firm Name

# GRANT DEED

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, STEVE BARATH

hereby GRANT(S) to VALLEY GARDENS GOLF COURSE, a corporation

the real property in the City of Scotts Valley
County of Santa Cruz , State of California, described as

SEE EXHIBIT "A" ATTACHED HERETO AND INCORPORATED HEREIN BY REFERENCE.

APN: 21-011 part of 6
21-011 part of 7
21-011 part of 10
21-011 part of 12
21-011-1
21-031-9

Dated May 13, 1983

Steve Barath
STEVE BARATH

STATE OF CALIFORNIA }
COUNTY OF Santa Cruz } ss.

On May 13, 1983
before me, the undersigned, a Notary Public in and for said State, personally appeared STEVE BARATH

known to me to be the person – whose name is subscribed to the within instrument and acknowledged that he executed the same.

WITNESS my hand and official seal.

Signature Janet I. Jennings

OFFICIAL SEAL
JANET I. JENNINGS
NOTARY PUBLIC – CALIFORNIA
COUNTY OF SANTA CLARA
Comm. Exp. March 26, 1985

(This area for official notarial seal)

1002 (10/69)

MAIL TAX STATEMENTS AS DIRECTED ABOVE

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BEGINNING at a 1/2 inch pipe set on the Northeastern boundary of the lands of J. Jackson Graham, et ux, described in Volume 1828, page 718, Official Records of Santa Cruz County, from which a 1/2 inch pipe found tagged L.S. 1225 at the Northwestern corner of said lands bears North 65° 51' 30" West 25.30 feet distant; thence from said point of beginning North 33° 25' 30" East 243.32 feet to a 1/2 inch pipe set on the Southern sideline of the county road known as the Mount Hermon Road; thence along said sideline on a curve to the left, from a tangent bearing South 70° 38' East, with a radius of 540 feet, through a central angle of 14° 45' 40", an arc distance of 132.78 feet to the end of said curve as shown on the Record of Survey Map of said road filed in Volume 32 of Maps, page 62 in the Office of the Santa Cruz County Recorder, being sheet 2 of 4 sheets; thence continue along said sideline as shown South 86° 48' 40" East 49.00 feet; thence leave said sideline South 33° 26' West 185.00 feet to a 1/2 inch pipe; thence South 56° 34' East 144.00 feet to a 1/2 inch pipe, thence South 33° 26' West 80.21 feet to a 1/2 inch pipe set on the aforementioned Northeastern boundary of said lands of J. Jackson Graham, et ux,; thence along said boundary North 65° 51' 30" West 313.40 feet to the point of beginning.

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PARCEL FOUR:

Situate in the Southeast 1/4 of projected Section 24, T. 10 S., R. 2 W., M.D.B. and M., in the San Augustine Rancho, Santa Cruz County, California, and being a part of Parcel One of the lands of J. Jackson Graham and Lola A. Graham, his wife, described in Volume 1828, Page 718, Official Records of Santa Cruz County, and being more particularly described as follows:

BEGINNING at a 1/2 inch pipe found at the Southeastern corner of said Parcel One, being also the Southwestern corner of the lands of Walter B. Sims, et ux, described in Volume 1941, Page 154, Official Records of Santa Cruz County; thence along the Northwestern boundary of said lands North 47° 05' East 392.23 feet to a 1/2 inch pipe found at the Northwestern corner thereof; thence leaving said lands of Sims along the boundary of said Parcel One, North 31° 54' West 271.30 feet; thence North 33° 50' East 803.25 feet; thence North 65° 51' West 511.87 feet to a 1/2 inch pipe from which a 1/2 inch pipe tagged L.S. 1225 found at the Northwestern corner of said Parcel One bears North 65° 10' West 25.30 feet distant; thence along a line 25.00 feet distant from and parallel to, the Northwestern boundary of said Parcel One South 33° 25' 30" West 193.83 feet to a 1/2 inch pipe; thence North 61° 54' West 25.12 feet to a station on the Northwestern boundary of said Parcel One; thence along said boundary South 33° 25' 30" West 486.27 feet to the Northwestern corner of the lands of Donald M. Hall, et ux, recorded in Volume 1669, Page 177, Official Records of Santa Cruz County, thence along the northern boundary of said lands South 65° 13' 10" East 270.10 feet; thence along the eastern boundary of said lands South 24° 38' 10" West 287.83 feet to a 1/2 inch pipe tagged R. E. 11423; thence South 25° 10' 50" East 54.85 feet to a station on the southwestern boundary of a 25 foot wide right of way from which a 1/2 inch pipe tagged R. E. 11423 bears South 25° 11' East 2.14 feet distant; thence leave said lands of Hall, along said southwestern boundary South 47° 20' East 92.23 feet to a 1/2 inch pipe; thence South 37° 52' West 245.65 feet to a 1/2 inch pipe set on the southern boundary of the aforementioned Parcel One; thence along said boundary South 56° 16' East 253.13 feet to the point of beginning.

TOGETHER WITH a 25 foot wide right of way leading from the Northwestern boundary of the herein described parcel to the county raod known as Lockewood Lane, the centerline of which is more particularly described as follows:

BEGINNING at a station on the northwestern boundary of the herein described parcel from which the northwestern corner of the lands of Donald M. Hall, et ux, bears South 33° 25' 30" West 41.82 feet distant; thence North 61° 54' West 203.17 feet to the eastern boundary of Lockewood Lane County Road, as shown on the Record of Survey Map filed in Volume 40 at Page 74, of Maps, in the Office of the Santa Cruz County Recorder.

PARCEL FIVE:

Situate in the Southeast 1/4 of projected Section 24, T. 10 S., R. 2 W., M.D.B. and M., in the San Augustine Rancho, Santa Cruz County, California, and being a part of the lands of Donald M. Hall and Helen G. Hall, his wife, described in Volume 1669, Page 177, of Santa Cruz County Official Records, and being more particularly described as follows:

BEGINNING at a 1 inch untagged pipe standing at the Westernmost corner of said lands; thence along the Western boundary of said lands North 33° 25' 30" East 212.72 feet to the Northwestern corner thereof; thence along the Northern boundary of said lands South 65° 32' East 270.10 feet; thence South 24° 20' West 287.83 feet to a 1/2 inch pipe tagged R. E. 11423; thence South 25° 29' East 54.85 feet to the southwestern sideline of a 25 foot wide right of way from which a 1/2 inch pipe tagged R. E. 11423 bears South 25° 29' East 2.14 feet distant; thence along said sideline and the western production thereof North 47° 20' West 362.98 feet to the point of beginning.

SUBJECT to a 25 foot wide right of way, the Western and Southern boundary of which are described as follows:

BEGINNING at a point from which the Northwestern corner of said lands of Hall bears North 65° 32' West 25.61 feet distant; thence along said Western sideline South 18° 03' 20" West 239.73 feet to a point on the Southwestern boundary of said lands of Hall from which the westernmost corner of said lands bears North 47° 20' West 90.00 feet distant; thence along said boundary South 47° 20' East 272.98 feet.

"SUBJECT, HOWEVER, to those covenants and conditions agreed to by grantors BILL GRAHAM and SHIRLEY GRAHAM, his wife, and Grantee, to be placed on record concurrently with this grant, limiting the rights of grantee, his heirs, successors, assigns, executors and administrators, to construct, build, erect, or cause to be constructed, built or erected, any structures or buildings upon that portion of those above-described lands subject to this grant, the limitations if which are described as follows:

(1) that portion of the above-described lands situate adjacent to the lands of Bill Graham and Shirley Graham described in part of Book 1122, at page 299, Official Records, Santa Cruz County Recorder, and more specifically consisting of a zone 300 feet in depth running southerly from that portion of the northeasterly boundary line of the lands of Grantee as they adjoin a portion of the lands of Bill Graham and Shirley Graham, more particularly described as that line starting at a point 198.47 feet westerly from a one-half inch pipe, tagged "LS1225", found at the north-eastern corner of the lands of John Jackson Graham, et ux, described in Volume 1828, page 718, Santa Cruz County Official Records; bearing North 65° 51'; thence proceeding from said point North 65° 51' 30" Easterly 198.47 ft. to said one-half inch pipe, tagged "LS 1225", thence along the eastern production of the northeastern boundary of said lands 65° 51' 30" East 438 feet to a half-inch pipe;

(2) that portion of the above-described lands situate adjacent to the lands of Bill Graham and Shirley Graham described in part in Book 621, page 159, and in Book 1529, page 565, Official Records, Santa Cruz County Recorder, and more specifically consisting of a zone 300 feet in depth running easterly from the westernmost extension of the lands of Grantee, consisting of that 1.418-acre parcel made a part of this conveyance and more particularly described as that North-South boundary line which forms the westerly boundary of said 1.418-acre parcel.

(3) These restrictions shall apply only so long as the lands of Grantee as described in said deed remain a golf course, defined for these purposes as total fairway yardage in excess of 1200 yards. In the event total fairway yardage should be reduced below 1200 total yards, these restrictions shall, in said event, no longer apply and shall no longer be valid or enforceable."

"FURTHER, SUBJECT, HOWEVER, to those covenants and conditions entered into between grantors BILL GRAHAM and SHIRLEY GRAHAM, his wife, and grantee, evidenced by separate agreement placed of record concurrently with the recordation of this grant, reserving to grantors BILL GRAHAM and SHIRLEY GRAHAM, his wife, their heirs, successors and assigns, the use of freeflowing waters in channels and ponds fed by springs from properties not subject of these grants, but traversing portions of Parcels 5, 4, and 3 as hereinabove described in this grant, and leading onto the lands of BILL GRAHAM and SHIRLEY GRAHAM, his wife, described in Volume 621 of Official Records at page 159, Santa Cruz County Recorder. Grantors BILL GRAHAM and SHIRLEY GRAHAM reserve an exclusive right to withdraw water for irrigation purposes to serve that property described in Volume 621 of Official Records, page 159, Santa Cruz County Recorder, and do thereby restrict the right of grantee to divert or obstruct said waters except as may be thereafter agreed upon in writing between said grantors, their heirs and assigns. These restrictions and conditions shall apply only to those water channels and ponds which flow into and empty into those lands retained by grantors and hereinabove described by reference.

PARCEL SIX:

BEING a part of the lands conveyed to Joseph Eberhardt, et ux, by Deed recorded April 18, 1939 in Volume 369, Page 149, Official Records of Santa Cruz County, more particularly described as follows:

BEGINNING on the center line of the road known as Lockwood Lane at the most Northern corner of that parcel of land conveyed to Klara Laquay by Deed recorded August 22, 1960 in Volume 1338, Page 19, Official Records of Santa Cruz County; thence from said point of beginning South 56° 04' East along the Northeasterly line of said lands of Laquay 790.0 feet, a little more or less, to the most Eastern corner thereof; thence leaving said corner North 33° 56' East 175.0 feet, a little more or less, to the Northeasterly line of said lands of Eberhardt; thence North 56° 12' West along said line 760.0 feet, a little more or less, to an angle; thence North 18° 25' East 338.57 feet to the most Southerly corner of that parcel of land conveyed to Raymond V. Liebenberg, et ux, by Deed recorded November 21, 1960 in Volume 1356 of Official Records of Santa Cruz County, at page 245; thence North 72° 00' West along the Southerly line of said last named lands 184.19 feet to a point on the center line of said Lockwood Lane; thence Southerly along the center line of said land, 545.0 feet, a little more or less, ot the point of beginning.

EXCEPTING therefrom so much of the herein described land as was conveyed to County of Santa Cruz by deed recorded August 9, 1962 in Volume 1488, Page 32, Official Records of Santa Cruz County.

PARCEL SEVEN:

BEING a portion of Parcel 3 of the lands conveyed to Joseph Eberhardt, et ux, by Trustee's Deed recorded in Volume 1747, Page 35, Official Records of Santa Cruz County, more particularly described as follows:

BEGINNING at the most Westerly corner of said Parcel 3; thence from said point of beginning along the Northwesterly and Northeasterly boundaries of said Parcel 3 North 33° 57' East 400 feet to the most Northerly corner thereof and South 56° 10' East 86 feet, more or less, to the most Northerly corner of the lands conveyed to Jun Lee, by Deed recorded in Volume 1906, Page 368, Official Records of Santa Cruz County; thence along the Northwesterly boundary of said lands of Lee South 33° 57' West 400 feet, more or less, to a point on the Southerwesterly boundary of said Parcel 3 of the lands conveyed to Eberhardt; thence leaving said lands of Lee along the Southwesterly boundary of said Parcel 3 North 56° 03' West 86 feet, more or less, to the point of beginning.

**VALLEY GARDENS GOLF COURSE**
263 MOUNT HERMON ROAD
SCOTTS VALLEY, CA 95066

**Inquiry Number: 06469411.5SR**
MAY 7, 2021

# EDR Environmental Lien and AUL Search

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

**Thank you for your business.**
Please contact EDR at 1-800-352-0050
with any questions or comments.

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# EDR Environmental Lien and AUL Search

## TARGET PROPERTY INFORMATION

### ADDRESS

VALLEY GARDENS GOLF COURSE
263 MOUNT HERMON ROAD
SCOTTS VALLEY, CA 95066

### RESEARCH SOURCE

Source 1: SANTA CRUZ COUNTY RECORDER'S OFFICE

Source 2: CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

### PROPERTY INFORMATION

**Deed 1**

| | |
|---|---|
| Type of Deed: | GRANT DEED |
| Title is vested in: | VALLEY GARDENS GOLF COURSE |
| Title received from: | STEVE BARATH |
| Date Executed: | 05/13/1983 |
| Date Recorded: | 05/20/1983 |
| Book: | 3572 |
| Page: | 341 |
| Volume: | NA |
| Instrument#: | NA |
| Docket: | NA |
| Land Record Comments: | NA |
| Miscellaneous Comments: | NA |

**Legal Description:** COMMONLY KNOWN AS 263 MOUNT HERMON RD IN SCOTTS VALLEY

**Current Owner:** VALLEY GARDENS GOLF COURSE

**Property Identifiers:** 021-231-08-000

**Comments:** NA

# EDR Environmental Lien and AUL Search

**ENVIRONMENTAL LIEN**

Environmental Lien: Found ☐ Not Found ☒

Comments: NONE IDENTIFIED.

**OTHER ACTIVITY AND USE LIMITATIONS (AULS)**

Other AUL's: Found ☐ Not Found ☒

Comments: NONE IDENTIFIED.

# EDR Environmental Lien and AUL Search

**MISCELLANEOUS**

Comments: NONE IDENTIFIED.

EDR Environmental Lien and AUL Search

**DEED EXHIBIT**

Order No.
Escrow No.
Loan No.

BOOK 3572 PAGE 341

22425

RECORDED AT THE REQUEST OF
Thomas Black
MAY 20 1983
12-46 pm
RICHARD W. BEDAL, Recorder
SANTA CRUZ COUNTY, Official Records

| RE | MI | SM | OP |
|---|---|---|---|
| 8 | 1 | 10 | |

WHEN RECORDED MAIL TO:

THOMAS A. BLACK, ESQ.
340 Soquel Avenue
Santa Cruz, CA 95062

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO:

DOCUMENTARY TRANSFER TAX $ NONE
..... Computed on the consideration or value of property conveyed; OR
..... Computed on the consideration or value less liens or encumbrances remaining at time of sale.

Signature of Declarant or Agent determining tax – Firm Name

# GRANT DEED

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, STEVE BARATH

hereby GRANT(S) to VALLEY GARDENS GOLF COURSE, a corporation

the real property in the City of Scotts Valley
County of Santa Cruz , State of California, described as

SEE EXHIBIT "A" ATTACHED HERETO AND INCORPORATED HEREIN BY REFERENCE.

APN: 21-011 part of 6
21-011 part of 7
21-011 part of 10
21-011 part of 12
21-011-1
21-031-9

Dated May 13, 1983

Steve Barath
STEVE BARATH

STATE OF CALIFORNIA }
COUNTY OF Santa Cruz } ss.

On May 13, 1983
before me, the undersigned, a Notary Public in and for said State, personally appeared STEVE BARATH

known to me to be the person – whose name is subscribed to the within instrument and acknowledged that he executed the same.

WITNESS my hand and official seal.

Signature Janet I. Jennings

OFFICIAL SEAL
JANET I. JENNINGS
NOTARY PUBLIC – CALIFORNIA
COUNTY OF SANTA CLARA
Comm. Exp. March 26, 1985

(This area for official notarial seal)

1002 (10/69)

MAIL TAX STATEMENTS AS DIRECTED ABOVE

PARCEL ONE:

Situate in the Southeast 1/4 of projected Section 24, T. 10 S., R. 2 W., M.D.B.&M., in the San Augustine Rancho, Santa Cruz County, California, and being part of the lands of Bill Graham, et ux, described in Volume 1122, page 299, Official Records of Santa Cruz County, and being more particularly described as follows:

BEGINNING at a 1/2 inch pipe set on the Northeastern boundary of the lands of J. Jackson Graham, et ux, described in Volume 1828, page 718, Official Records of Santa Cruz County, from which a 1/2 inch pipe found tagged L.S. 1225 at the Northwestern corner of said lands bears North 65° 51' 30" West 25.30 feet distant; thence from said point of beginning North 33° 25' 30" East 243.32 feet to a 1/2 inch pipe set on the Southern sideline of the county road known as the Mount Hermon Road; thence along said sideline on a curve to the left, from a tangent bearing South 70° 38' East, with a radius of 540 feet, through a central angle of 14° 45' 40", an arc distance of 132.78 feet to the end of said curve as shown on the Record of Survey Map of said road filed in Volume 32 of Maps, page 62 in the Office of the Santa Cruz County Recorder, being sheet 2 of 4 sheets; thence continue along said sideline as shown South 86° 48' 40" East 49.00 feet; thence leave said sideline South 33° 26' West 185.00 feet to a 1/2 inch pipe; thence South 56° 34' East 144.00 feet to a 1/2 inch pipe, thence South 33° 26' West 80.21 feet to a 1/2 inch pipe set on the aforementioned Northeastern boundary of said lands of J. Jackson Graham, et ux,; thence along said boundary North 65° 51' 30" West 313.40 feet to the point of beginning.

PARCEL TWO:

Situate in the Southeast 1/4 of projected Section 24, T. 10 S., R. 2 W., M.D.B. and M., in the San Augustine Rancho, Santa Cruz County, California, and being a part of the lands of Bill Graham, et ux, described in Volume 1122, Page 299, of Santa Cruz County Official Records, and being more particularly described as follows:

BEGINNING at a 1/2 inch pipe, tagged L.S. 1225, found at the Northeastern corner of the lands of J. Jackson Graham, et ux, described in Volume 1828, Page 718, of Official Records of Santa Cruz County; thence along the Eastern production of the Northeastern boundary of said lands South 65° 51' 30" East 438.00 feet to a 1/2 inch pipe; thence South 24° 50' West 49.00 feet to a 1/2 inch pipe set on the western sideline of a mobile home park described as Parcel 4 in the Deed to Spring Lakes Park, a partnership, recorded in Volume 2235, Page 403, Official Records of Santa Cruz County; thence along said boundary on a curve to the left in a Southwestern direction from a tangent bearing South 87° 55' West, with a radius of 570 feet, through a central angle of 15° 33', an arc distance of 134.80 feet to a 1/2 inch pipe set at a point of tangency; thence South 74° 22' West 162.65 feet to a 1/2 inch pipe set at a point of curve; thence along a curve to the left, with a radius of 470 feet, through a central angle of 42° 10' an arc distance of 345.90 feet to a 1/2 inch pipe set at a point of tangency; thence South 32° 12' West 352.31 feet to a 1/2 inch pipe set on the southern boundary of the said lands of Bill Graham, et ux; thence along said boundary North 31° 57' West 139.88 feet to a 1/2 inch pipe tagged L.S. 1225 found at the Westernmost corner of said lands; thence North 33° 38' 40" East 803.25 feet to the point of beginning.

PARCEL THREE:

Situate in the Southeast 1/4 of projected Section 24, T. 10 S., R. 2 W., M.D.B. and M., in the San Augustine Rancho, Santa Cruz County, California, and being a part of the lands of Bill Graham and Shirley Graham, his wife, as described in Volume 621, Page 159, Official Records of Santa Cruz County, and in Volume 1629, Page 565, Official Records of Santa Cruz County, and being more particularly described as follows:

EXHIBIT "A"

BEGINNING at a 1/2 inch pipe set on the Eastern boundary of said lands from which the Northwestern corner of the lands of Donald M. Hall and Helen G. Hall, his wife, described in Volume 1669, Page 177, Official Records of Santa Cruz County, bears South 33° 25' 30" West 54.37 feet distant; thence along said eastern boundary North 33° 25' 30" East 215.95 feet to the centerline of the P. G. & E. Easement described in Volume 999, Page 426, Official Records of Santa Cruz County, said centerline bears North 61° 54' West; thence continue North 33° 25' 30" East 215.95 feet, a total of 431.90 feet to a 1/2 inch pipe; thence leave said eastern boundary North 61° 54' West 208.50 feet to a 1/2 inch pipe from which a 1/2 inch pipe set on the Eastern boundary of the county road known as Lockewood Lane bears North 61° 54' West 126.95 feet distance; thence along a line parallel to and 125.00 feet distant from said Eastern boundary of Lockewood Lane South 18° 02' West 178.44 feet to a 1/2 inch pipe; thence South 6° 15' 50" West 61.29 feet to a 1/2 inch pipe; thence South 18° 02' West 200.63 feet to a 1/2 inch pipe from which a 1/2 inch pipe set on the Eastern boundary of said Lockewood Lane bears North 61° 54' West 126.95 feet distant; thence South 61° 54' East 79.61 feet to the point of beginning.

PARCEL FOUR:

Situate in the Southeast 1/4 of projected Section 24, T. 10 S., R. 2 W., M.D.B. and M., in the San Augustine Rancho, Santa Cruz County, California, and being a part of Parcel One of the lands of J. Jackson Graham and Lola A. Graham, his wife, described in Volume 1828, Page 718, Official Records of Santa Cruz County, and being more particularly described as follows:

BEGINNING at a 1/2 inch pipe found at the Southeastern corner of said Parcel One, being also the Southwestern corner of the lands of Walter B. Sims, et ux, described in Volume 1941, Page 154, Official Records of Santa Cruz County; thence along the Northwestern boundary of said lands North 47° 05' East 392.23 feet to a 1/2 inch pipe found at the Northwestern corner thereof; thence leaving said lands of Sims along the boundary of said Parcel One, North 31° 54' West 271.30 feet; thence North 33° 50' East 803.25 feet; thence North 65° 51' West 511.87 feet to a 1/2 inch pipe from which a 1/2 inch pipe tagged L.S. 1225 found at the Northwestern corner of said Parcel One bears North 65° 10' West 25.30 feet distant; thence along a line 25.00 feet distant from and parallel to, the Northwestern boundary of said Parcel One South 33° 25' 30" West 193.83 feet to a 1/2 inch pipe; thence North 61° 54' West 25.12 feet to a station on the Northwestern boundary of said Parcel One; thence along said boundary South 33° 25' 30" West 486.27 feet to the Northwestern corner of the lands of Donald M. Hall, et ux, recorded in Volume 1669, Page 177, Official Records of Santa Cruz County, thence along the northern boundary of said lands South 65° 13' 10" East 270.10 feet; thence along the eastern boundary of said lands South 24° 38' 10" West 287.83 feet to a 1/2 inch pipe tagged R. E. 11423; thence South 25° 10' 50" East 54.85 feet to a station on the southwestern boundary of a 25 foot wide right of way from which a 1/2 inch pipe tagged R. E. 11423 bears South 25° 11' East 2.14 feet distant; thence leave said lands of Hall, along said southwestern boundary South 47° 20' East 92.23 feet to a 1/2 inch pipe; thence South 37° 52' West 245.65 feet to a 1/2 inch pipe set on the southern boundary of the aforementioned Parcel One; thence along said boundary South 56° 16' East 253.13 feet to the point of beginning.

TOGETHER WITH a 25 foot wide right of way leading from the Northwestern boundary of the herein described parcel to the county raod known as Lockewood Lane, the centerline of which is more particularly described as follows:

BEGINNING at a station on the northwestern boundary of the herein described parcel from which the northwestern corner of the lands of Donald M. Hall, et ux, bears South 33° 25' 30" West 41.82 feet distant; thence North 61° 54' West 203.17 feet to the eastern boundary of Lockewood Lane County Road, as shown on the Record of Survey Map filed in Volume 40 at Page 74, of Maps, in the Office of the Santa Cruz County Recorder.

PARCEL FIVE:

Situate in the Southeast 1/4 of projected Section 24, T. 10 S., R. 2 W., M.D.B. and M., in the San Augustine Rancho, Santa Cruz County, California, and being a part of the lands of Donald M. Hall and Helen G. Hall, his wife, described in Volume 1669, Page 177, of Santa Cruz County Official Records, and being more particularly described as follows:

BEGINNING at a 1 inch untagged pipe standing at the Westernmost corner of said lands; thence along the Western boundary of said lands North 33° 25' 30" East 212.72 feet to the Northwestern corner thereof; thence along the Northern boundary of said lands South 65° 32' East 270.10 feet; thence South 24° 20' West 287.83 feet to a 1/2 inch pipe tagged R. E. 11423; thence South 25° 29' East 54.85 feet to the southwestern sideline of a 25 foot wide right of way from which a 1/2 inch pipe tagged R. E. 11423 bears South 25° 29' East 2.14 feet distant; thence along said sideline and the western production thereof North 47° 20' West 362.98 feet to the point of beginning.

SUBJECT to a 25 foot wide right of way, the Western and Southern boundary of which are described as follows:

BEGINNING at a point from which the Northwestern corner of said lands of Hall bears North 65° 32' West 25.61 feet distant; thence along said Western sideline South 18° 03' 20" West 239.73 feet to a point on the Southwestern boundary of said lands of Hall from which the westernmost corner of said lands bears North 47° 20' West 90.00 feet distant; thence along said boundary South 47° 20' East 272.98 feet.

"SUBJECT, HOWEVER, to those covenants and conditions agreed to by grantors BILL GRAHAM and SHIRLEY GRAHAM, his wife, and Grantee, to be placed on record concurrently with this grant, limiting the rights of grantee, his heirs, successors, assigns, executors and administrators, to construct, build, erect, or cause to be constructed, built or erected, any structures or buildings upon that portion of those above-described lands subject to this grant, the limitations if which are described as follows:

(1) that portion of the above-described lands situate adjacent to the lands of Bill Graham and Shirley Graham described in part of Book 1122, at page 299, Official Records, Santa Cruz County Recorder, and more specifically consisting of a zone 300 feet in depth running southerly from that portion of the northeasterly boundary line of the lands of Grantee as they adjoin a portion of the lands of Bill Graham and Shirley Graham, more particularly described as that line starting at a point 198.47 feet westerly from a one-half inch pipe, tagged "LS1225", found at the north-eastern corner of the lands of John Jackson Graham, et ux, described in Volume 1828, page 718, Santa Cruz County Official Records; bearing North 65° 51'; thence proceeding from said point North 65° 51' 30" Easterly 198.47 ft. to said one-half inch pipe, tagged "LS 1225", thence along the eastern production of the northeastern boundary of said lands 65° 51' 30" East 438 feet to a half-inch pipe;

(2) that portion of the above-described lands situate adjacent to the lands of Bill Graham and Shirley Graham described in part in Book 621, page 159, and in Book 1529, page 565, Official Records, Santa Cruz County Recorder, and more specifically consisting of a zone 300 feet in depth running easterly from the westernmost extension of the lands of Grantee, consisting of that 1.418-acre parcel made a part of this conveyance and more particularly described as that North-South boundary line which forms the westerly boundary of said 1.418-acre parcel.

(3) These restrictions shall apply only so long as the lands of Grantee as described in said deed remain a golf course, defined for these purposes as total fairway yardage in excess of 1200 yards. In the event total fairway yardage should be reduced below 1200 total yards, these restrictions shall, in said event, no longer apply and shall no longer be valid or enforceable."

"FURTHER, SUBJECT, HOWEVER, to those covenants and conditions entered into between grantors BILL GRAHAM and SHIRLEY GRAHAM, his wife, and grantee, evidenced by separate agreement placed of record concurrently with the recordation of this grant, reserving to grantors BILL GRAHAM and SHIRLEY GRAHAM, his wife, their heirs, successors and assigns, the use of freeflowing waters in channels and ponds fed by springs from properties not subject of these grants, but traversing portions of Parcels 5, 4, and 3 as hereinabove described in this grant, and leading onto the lands of BILL GRAHAM and SHIRLEY GRAHAM, his wife, described in Volume 621 of Official Records at page 159, Santa Cruz County Recorder. Grantors BILL GRAHAM and SHIRLEY GRAHAM reserve an exclusive right to withdraw water for irrigation purposes to serve that property described in Volume 621 of Official Records, page 159, Santa Cruz County Recorder, and do thereby restrict the right of grantee to divert or obstruct said waters except as may be thereafter agreed upon in writing between said grantors, their heirs and assigns. These restrictions and conditions shall apply only to those water channels and ponds which flow into and empty into those lands retained by grantors and hereinabove described by reference.

PARCEL SIX:

BEING a part of the lands conveyed to Joseph Eberhardt, et ux, by Deed recorded April 18, 1939 in Volume 369, Page 149, Official Records of Santa Cruz County, more particularly described as follows:

BEGINNING on the center line of the road known as Lockwood Lane at the most Northern corner of that parcel of land conveyed to Klara Laquay by Deed recorded August 22, 1960 in Volume 1338, Page 19, Official Records of Santa Cruz County; thence from said point of beginning South 56° 04' East along the Northeasterly line of said lands of Laquay 790.0 feet, a little more or less, to the most Eastern corner thereof; thence leaving said corner North 33° 56' East 175.0 feet, a little more or less, to the Northeasterly line of said lands of Eberhardt; thence North 56° 12' West along said line 760.0 feet, a little more or less, to an angle; thence North 18° 25' East 338.57 feet to the most Southerly corner of that parcel of land conveyed to Raymond V. Liebenberg, et ux, by Deed recorded November 21, 1960 in Volume 1356 of Official Records of Santa Cruz County, at page 245; thence North 72° 00' West along the Southerly line of said last named lands 184.19 feet to a point on the center line of said Lockwood Lane; thence Southerly along the center line of said land, 545.0 feet, a little more or less, ot the point of beginning.

EXCEPTING therefrom so much of the herein described land as was conveyed to County of Santa Cruz by deed recorded August 9, 1962 in Volume 1488, Page 32, Official Records of Santa Cruz County.

PARCEL SEVEN:

BEING a portion of Parcel 3 of the lands conveyed to Joseph Eberhardt, et ux, by Trustee's Deed recorded in Volume 1747, Page 35, Official Records of Santa Cruz County, more particularly described as follows:

BEGINNING at the most Westerly corner of said Parcel 3; thence from said point of beginning along the Northwesterly and Northeasterly boundaries of said Parcel 3 North 33° 57' East 400 feet to the most Northerly corner thereof and South 56° 10' East 86 feet, more or less, to the most Northerly corner of the lands conveyed to Jun Lee, by Deed recorded in Volume 1906, Page 368, Official Records of Santa Cruz County; thence along the Northwesterly boundary of said lands of Lee South 33° 57' West 400 feet, more or less, to a point on the Southerwesterly boundary of said Parcel 3 of the lands conveyed to Eberhardt; thence leaving said lands of Lee along the Southwesterly boundary of said Parcel 3 North 56° 03' West 86 feet, more or less, to the point of beginning.

# APPENDIX F
# LABORATORY ANALYTICAL REPORTS

McCampbell Analytical, Inc.
*"When Quality Counts"*

# Analytical Report

**WorkOrder:** 1611874

**Report Created for:** Environ

2200 Powell Street, 7th Floor
Emeryville, CA 94608

**Project Contact:** Anne Gates
**Project P.O.:**
**Project Name:** 03-21676JJ; Valley Gardens

**Project Received:** 11/17/2016

Analytical Report reviewed & approved for release on 11/29/2016 by:

Angela Rydelius,
Laboratory Manager

***The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.***

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com
CA ELAP 1644 ♦ NELAP 4033ORELAP

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# Glossary of Terms & Qualifier Definitions

**Client:** Environ
**Project:** 03-21676JJ; Valley Gardens
**WorkOrder:** 1611874

## Glossary Abbreviation

| | |
|---|---|
| %D | Serial Dilution Percent Difference |
| 95% Interval | 95% Confident Interval |
| DF | Dilution Factor |
| DI WET | (DISTLC) Waste Extraction Test using DI water |
| DISS | Dissolved (direct analysis of 0.45 µm filtered and acidified water sample) |
| DLT | Dilution Test (Serial Dilution) |
| DUP | Duplicate |
| EDL | Estimated Detection Limit |
| ITEF | International Toxicity Equivalence Factor |
| LCS | Laboratory Control Sample |
| MB | Method Blank |
| MB % Rec | % Recovery of Surrogate in Method Blank, if applicable |
| MDL | Method Detection Limit |
| ML | Minimum Level of Quantitation |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| N/A | Not Applicable |
| ND | Not detected at or above the indicated MDL or RL |
| NR | Data Not Reported due to matrix interference or insufficient sample amount. |
| PDS | Post Digestion Spike |
| PDSD | Post Digestion Spike Duplicate |
| PF | Prep Factor |
| RD | Relative Difference |
| RL | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.) |
| RPD | Relative Percent Deviation |
| RRT | Relative Retention Time |
| SPK Val | Spike Value |
| SPKRef Val | Spike Reference Value |
| SPLP | Synthetic Precipitation Leachate Procedure |
| ST | Sorbent Tube |
| TCLP | Toxicity Characteristic Leachate Procedure |
| TEQ | Toxicity Equivalents |
| WET (STLC) | Waste Extraction Test (Soluble Threshold Limit Concentration) |

## Analytical Qualifiers

| | |
|---|---|
| J | result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value. |
| a3 | sample diluted due to high organic content. |

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Environ | **WorkOrder:** | 1611874 |
| **Date Received:** | 11/17/16 15:20 | **Extraction Method:** | SW3550B/3620B |
| **Date Prepared:** | 11/17/16 | **Analytical Method:** | SW8081A/8082 |
| **Project:** | 03-21676JJ; Valley Gardens | **Unit:** | mg/kg |

## Organochlorine Pesticides + PCBs w/ Florisil Clean-up

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| PS-03 | 1611874-001A | Soil | 11/16/2016 10:07 | GC40 | 130003 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Aldrin | ND | 0.010 | 10 | 11/24/2016 02:03 |
| a-BHC | ND | 0.010 | 10 | 11/24/2016 02:03 |
| b-BHC | ND | 0.010 | 10 | 11/24/2016 02:03 |
| d-BHC | ND | 0.010 | 10 | 11/24/2016 02:03 |
| g-BHC | ND | 0.010 | 10 | 11/24/2016 02:03 |
| Chlordane (Technical) | ND | 0.25 | 10 | 11/24/2016 02:03 |
| a-Chlordane | ND | 0.010 | 10 | 11/24/2016 02:03 |
| g-Chlordane | ND | 0.010 | 10 | 11/24/2016 02:03 |
| p,p-DDD | ND | 0.010 | 10 | 11/24/2016 02:03 |
| p,p-DDE | ND | 0.010 | 10 | 11/24/2016 02:03 |
| p,p-DDT | ND | 0.010 | 10 | 11/24/2016 02:03 |
| Dieldrin | ND | 0.010 | 10 | 11/24/2016 02:03 |
| Endosulfan I | ND | 0.010 | 10 | 11/24/2016 02:03 |
| Endosulfan II | ND | 0.010 | 10 | 11/24/2016 02:03 |
| Endosulfan sulfate | ND | 0.010 | 10 | 11/24/2016 02:03 |
| Endrin | ND | 0.010 | 10 | 11/24/2016 02:03 |
| Endrin aldehyde | ND | 0.010 | 10 | 11/24/2016 02:03 |
| Endrin ketone | ND | 0.010 | 10 | 11/24/2016 02:03 |
| Heptachlor | ND | 0.010 | 10 | 11/24/2016 02:03 |
| Heptachlor epoxide | ND | 0.010 | 10 | 11/24/2016 02:03 |
| Hexachlorobenzene | ND | 0.10 | 10 | 11/24/2016 02:03 |
| Hexachlorocyclopentadiene | ND | 0.20 | 10 | 11/24/2016 02:03 |
| Methoxychlor | ND | 0.010 | 10 | 11/24/2016 02:03 |
| Toxaphene | ND | 0.50 | 10 | 11/24/2016 02:03 |
| Aroclor1016 | ND | 0.50 | 10 | 11/24/2016 02:03 |
| Aroclor1221 | ND | 0.50 | 10 | 11/24/2016 02:03 |
| Aroclor1232 | ND | 0.50 | 10 | 11/24/2016 02:03 |
| Aroclor1242 | ND | 0.50 | 10 | 11/24/2016 02:03 |
| Aroclor1248 | ND | 0.50 | 10 | 11/24/2016 02:03 |
| Aroclor1254 | ND | 0.50 | 10 | 11/24/2016 02:03 |
| Aroclor1260 | ND | 0.50 | 10 | 11/24/2016 02:03 |
| PCBs, total | ND | 0.50 | 10 | 11/24/2016 02:03 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 79 | 70-130 | 11/24/2016 02:03 |

Analyst(s): SS  Analytical Comments: a3

*(Cont.)*

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Environ | **WorkOrder:** | 1611874 |
| **Date Received:** | 11/17/16 15:20 | **Extraction Method:** | SW3550B/3620B |
| **Date Prepared:** | 11/17/16 | **Analytical Method:** | SW8081A/8082 |
| **Project:** | 03-21676JJ; Valley Gardens | **Unit:** | mg/kg |

## Organochlorine Pesticides + PCBs w/ Florisil Clean-up

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| PS-04 | 1611874-002A | Soil | 11/16/2016 10:45 | GC40 | 130003 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Aldrin | ND | 0.0050 | 5 | 11/24/2016 02:15 |
| a-BHC | ND | 0.0050 | 5 | 11/24/2016 02:15 |
| b-BHC | ND | 0.0050 | 5 | 11/24/2016 02:15 |
| d-BHC | ND | 0.0050 | 5 | 11/24/2016 02:15 |
| g-BHC | ND | 0.0050 | 5 | 11/24/2016 02:15 |
| Chlordane (Technical) | ND | 0.12 | 5 | 11/24/2016 02:15 |
| a-Chlordane | ND | 0.0050 | 5 | 11/24/2016 02:15 |
| g-Chlordane | ND | 0.0050 | 5 | 11/24/2016 02:15 |
| p,p-DDD | ND | 0.0050 | 5 | 11/24/2016 02:15 |
| p,p-DDE | ND | 0.0050 | 5 | 11/24/2016 02:15 |
| p,p-DDT | ND | 0.0050 | 5 | 11/24/2016 02:15 |
| Dieldrin | ND | 0.0050 | 5 | 11/24/2016 02:15 |
| Endosulfan I | ND | 0.0050 | 5 | 11/24/2016 02:15 |
| Endosulfan II | ND | 0.0050 | 5 | 11/24/2016 02:15 |
| Endosulfan sulfate | ND | 0.0050 | 5 | 11/24/2016 02:15 |
| Endrin | ND | 0.0050 | 5 | 11/24/2016 02:15 |
| Endrin aldehyde | ND | 0.0050 | 5 | 11/24/2016 02:15 |
| Endrin ketone | ND | 0.0050 | 5 | 11/24/2016 02:15 |
| Heptachlor | ND | 0.0050 | 5 | 11/24/2016 02:15 |
| Heptachlor epoxide | ND | 0.0050 | 5 | 11/24/2016 02:15 |
| Hexachlorobenzene | ND | 0.050 | 5 | 11/24/2016 02:15 |
| Hexachlorocyclopentadiene | ND | 0.10 | 5 | 11/24/2016 02:15 |
| Methoxychlor | ND | 0.0050 | 5 | 11/24/2016 02:15 |
| Toxaphene | ND | 0.25 | 5 | 11/24/2016 02:15 |
| Aroclor1016 | ND | 0.25 | 5 | 11/24/2016 02:15 |
| Aroclor1221 | ND | 0.25 | 5 | 11/24/2016 02:15 |
| Aroclor1232 | ND | 0.25 | 5 | 11/24/2016 02:15 |
| Aroclor1242 | ND | 0.25 | 5 | 11/24/2016 02:15 |
| Aroclor1248 | ND | 0.25 | 5 | 11/24/2016 02:15 |
| Aroclor1254 | ND | 0.25 | 5 | 11/24/2016 02:15 |
| Aroclor1260 | ND | 0.25 | 5 | 11/24/2016 02:15 |
| PCBs, total | ND | 0.25 | 5 | 11/24/2016 02:15 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 80 | 70-130 | 11/24/2016 02:15 |

Analyst(s): SS  Analytical Comments: a3

*(Cont.)*

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Environ | **WorkOrder:** | 1611874 |
| **Date Received:** | 11/17/16 15:20 | **Extraction Method:** | SW3550B/3620B |
| **Date Prepared:** | 11/17/16 | **Analytical Method:** | SW8081A/8082 |
| **Project:** | 03-21676JJ; Valley Gardens | **Unit:** | mg/kg |

## Organochlorine Pesticides + PCBs w/ Florisil Clean-up

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| PS-05 | 1611874-003A | Soil | 11/16/2016 11:20 | GC40 | 130003 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Aldrin | ND | 0.0020 | 2 | 11/24/2016 02:28 |
| a-BHC | ND | 0.0020 | 2 | 11/24/2016 02:28 |
| b-BHC | ND | 0.0020 | 2 | 11/24/2016 02:28 |
| d-BHC | ND | 0.0020 | 2 | 11/24/2016 02:28 |
| g-BHC | ND | 0.0020 | 2 | 11/24/2016 02:28 |
| Chlordane (Technical) | ND | 0.050 | 2 | 11/24/2016 02:28 |
| a-Chlordane | ND | 0.0030 | 2 | 11/24/2016 02:28 |
| g-Chlordane | ND | 0.0030 | 2 | 11/24/2016 02:28 |
| p,p-DDD | ND | 0.0020 | 2 | 11/24/2016 02:28 |
| p,p-DDE | ND | 0.0020 | 2 | 11/24/2016 02:28 |
| p,p-DDT | ND | 0.0020 | 2 | 11/24/2016 02:28 |
| Dieldrin | ND | 0.0020 | 2 | 11/24/2016 02:28 |
| Endosulfan I | ND | 0.0020 | 2 | 11/24/2016 02:28 |
| Endosulfan II | ND | 0.0020 | 2 | 11/24/2016 02:28 |
| Endosulfan sulfate | ND | 0.0020 | 2 | 11/24/2016 02:28 |
| Endrin | ND | 0.0020 | 2 | 11/24/2016 02:28 |
| Endrin aldehyde | ND | 0.0020 | 2 | 11/24/2016 02:28 |
| Endrin ketone | ND | 0.0020 | 2 | 11/24/2016 02:28 |
| Heptachlor | ND | 0.0020 | 2 | 11/24/2016 02:28 |
| Heptachlor epoxide | ND | 0.0020 | 2 | 11/24/2016 02:28 |
| Hexachlorobenzene | ND | 0.020 | 2 | 11/24/2016 02:28 |
| Hexachlorocyclopentadiene | ND | 0.040 | 2 | 11/24/2016 02:28 |
| Methoxychlor | ND | 0.0020 | 2 | 11/24/2016 02:28 |
| Toxaphene | ND | 0.10 | 2 | 11/24/2016 02:28 |
| Aroclor1016 | ND | 0.10 | 2 | 11/24/2016 02:28 |
| Aroclor1221 | ND | 0.10 | 2 | 11/24/2016 02:28 |
| Aroclor1232 | ND | 0.10 | 2 | 11/24/2016 02:28 |
| Aroclor1242 | ND | 0.10 | 2 | 11/24/2016 02:28 |
| Aroclor1248 | ND | 0.10 | 2 | 11/24/2016 02:28 |
| Aroclor1254 | ND | 0.10 | 2 | 11/24/2016 02:28 |
| Aroclor1260 | ND | 0.10 | 2 | 11/24/2016 02:28 |
| PCBs, total | ND | 0.10 | 2 | 11/24/2016 02:28 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 78 | 70-130 | 11/24/2016 02:28 |

Analyst(s): SS  Analytical Comments: a3

*(Cont.)*

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Environ | **WorkOrder:** | 1611874 |
| **Date Received:** | 11/17/16 15:20 | **Extraction Method:** | SW3550B/3620B |
| **Date Prepared:** | 11/17/16 | **Analytical Method:** | SW8081A/8082 |
| **Project:** | 03-21676JJ; Valley Gardens | **Unit:** | mg/kg |

## Organochlorine Pesticides + PCBs w/ Florisil Clean-up

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| PS-02 | 1611874-004A | Soil | 11/16/2016 11:50 | GC40 | 130003 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Aldrin | ND | 0.0050 | 5 | 11/24/2016 02:41 |
| a-BHC | ND | 0.0050 | 5 | 11/24/2016 02:41 |
| b-BHC | ND | 0.0050 | 5 | 11/24/2016 02:41 |
| d-BHC | ND | 0.0050 | 5 | 11/24/2016 02:41 |
| g-BHC | ND | 0.0050 | 5 | 11/24/2016 02:41 |
| Chlordane (Technical) | ND | 0.12 | 5 | 11/24/2016 02:41 |
| a-Chlordane | ND | 0.0050 | 5 | 11/24/2016 02:41 |
| g-Chlordane | ND | 0.0050 | 5 | 11/24/2016 02:41 |
| p,p-DDD | ND | 0.0050 | 5 | 11/24/2016 02:41 |
| p,p-DDE | ND | 0.0050 | 5 | 11/24/2016 02:41 |
| p,p-DDT | ND | 0.0050 | 5 | 11/24/2016 02:41 |
| Dieldrin | ND | 0.0050 | 5 | 11/24/2016 02:41 |
| Endosulfan I | ND | 0.0050 | 5 | 11/24/2016 02:41 |
| Endosulfan II | ND | 0.0050 | 5 | 11/24/2016 02:41 |
| Endosulfan sulfate | ND | 0.0050 | 5 | 11/24/2016 02:41 |
| Endrin | ND | 0.0050 | 5 | 11/24/2016 02:41 |
| Endrin aldehyde | ND | 0.0050 | 5 | 11/24/2016 02:41 |
| Endrin ketone | ND | 0.0050 | 5 | 11/24/2016 02:41 |
| Heptachlor | ND | 0.0050 | 5 | 11/24/2016 02:41 |
| Heptachlor epoxide | ND | 0.0050 | 5 | 11/24/2016 02:41 |
| Hexachlorobenzene | ND | 0.050 | 5 | 11/24/2016 02:41 |
| Hexachlorocyclopentadiene | ND | 0.10 | 5 | 11/24/2016 02:41 |
| Methoxychlor | ND | 0.0050 | 5 | 11/24/2016 02:41 |
| Toxaphene | ND | 0.25 | 5 | 11/24/2016 02:41 |
| Aroclor1016 | ND | 0.25 | 5 | 11/24/2016 02:41 |
| Aroclor1221 | ND | 0.25 | 5 | 11/24/2016 02:41 |
| Aroclor1232 | ND | 0.25 | 5 | 11/24/2016 02:41 |
| Aroclor1242 | ND | 0.25 | 5 | 11/24/2016 02:41 |
| Aroclor1248 | ND | 0.25 | 5 | 11/24/2016 02:41 |
| Aroclor1254 | ND | 0.25 | 5 | 11/24/2016 02:41 |
| Aroclor1260 | ND | 0.25 | 5 | 11/24/2016 02:41 |
| PCBs, total | ND | 0.25 | 5 | 11/24/2016 02:41 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 87 | 70-130 | 11/24/2016 02:41 |

Analyst(s): SS  Analytical Comments: a3

*(Cont.)*

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http://www.mccampbell.com / E-mail: main@mccampbell.com

# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Environ | **WorkOrder:** | 1611874 |
| **Date Received:** | 11/17/16 15:20 | **Extraction Method:** | SW3550B/3620B |
| **Date Prepared:** | 11/17/16 | **Analytical Method:** | SW8081A/8082 |
| **Project:** | 03-21676JJ; Valley Gardens | **Unit:** | mg/kg |

## Organochlorine Pesticides + PCBs w/ Florisil Clean-up

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| PS-01 | 1611874-005A | Soil | 11/16/2016 12:10 | GC40 | 130003 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Aldrin | ND | 0.020 | 20 | 11/24/2016 02:53 |
| a-BHC | ND | 0.020 | 20 | 11/24/2016 02:53 |
| b-BHC | ND | 0.020 | 20 | 11/24/2016 02:53 |
| d-BHC | ND | 0.020 | 20 | 11/24/2016 02:53 |
| g-BHC | ND | 0.020 | 20 | 11/24/2016 02:53 |
| Chlordane (Technical) | ND | 0.50 | 20 | 11/24/2016 02:53 |
| a-Chlordane | ND | 0.020 | 20 | 11/24/2016 02:53 |
| g-Chlordane | ND | 0.020 | 20 | 11/24/2016 02:53 |
| p,p-DDD | ND | 0.020 | 20 | 11/24/2016 02:53 |
| p,p-DDE | ND | 0.020 | 20 | 11/24/2016 02:53 |
| p,p-DDT | ND | 0.020 | 20 | 11/24/2016 02:53 |
| Dieldrin | ND | 0.020 | 20 | 11/24/2016 02:53 |
| Endosulfan I | ND | 0.020 | 20 | 11/24/2016 02:53 |
| Endosulfan II | ND | 0.020 | 20 | 11/24/2016 02:53 |
| Endosulfan sulfate | ND | 0.020 | 20 | 11/24/2016 02:53 |
| Endrin | ND | 0.020 | 20 | 11/24/2016 02:53 |
| Endrin aldehyde | ND | 0.020 | 20 | 11/24/2016 02:53 |
| Endrin ketone | ND | 0.020 | 20 | 11/24/2016 02:53 |
| Heptachlor | ND | 0.020 | 20 | 11/24/2016 02:53 |
| Heptachlor epoxide | ND | 0.020 | 20 | 11/24/2016 02:53 |
| Hexachlorobenzene | ND | 0.20 | 20 | 11/24/2016 02:53 |
| Hexachlorocyclopentadiene | ND | 0.40 | 20 | 11/24/2016 02:53 |
| Methoxychlor | ND | 0.020 | 20 | 11/24/2016 02:53 |
| Toxaphene | ND | 1.0 | 20 | 11/24/2016 02:53 |
| Aroclor1016 | ND | 1.0 | 20 | 11/24/2016 02:53 |
| Aroclor1221 | ND | 1.0 | 20 | 11/24/2016 02:53 |
| Aroclor1232 | ND | 1.0 | 20 | 11/24/2016 02:53 |
| Aroclor1242 | ND | 1.0 | 20 | 11/24/2016 02:53 |
| Aroclor1248 | ND | 1.0 | 20 | 11/24/2016 02:53 |
| Aroclor1254 | ND | 1.0 | 20 | 11/24/2016 02:53 |
| Aroclor1260 | ND | 1.0 | 20 | 11/24/2016 02:53 |
| PCBs, total | ND | 1.0 | 20 | 11/24/2016 02:53 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 85 | 70-130 | 11/24/2016 02:53 |

Analyst(s): SS

Analytical Comments: a3

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Environ | **WorkOrder:** | 1611874 |
| **Date Received:** | 11/17/16 15:20 | **Extraction Method:** | SW3050B |
| **Date Prepared:** | 11/17/16 | **Analytical Method:** | SW6020 |
| **Project:** | 03-21676JJ; Valley Gardens | **Unit:** | mg/Kg |

## CAM / CCR 17 Metals

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| PS-03 | 1611874-001A | Soil | 11/16/2016 10:07 | ICP-MS3 | 129985 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Antimony | ND | 0.50 | 1 | 11/19/2016 04:47 |
| Arsenic | **0.50** | 0.50 | 1 | 11/19/2016 04:47 |
| Barium | **12** | 5.0 | 1 | 11/19/2016 04:47 |
| Beryllium | ND | 0.50 | 1 | 11/19/2016 04:47 |
| Cadmium | ND | 0.25 | 1 | 11/19/2016 04:47 |
| Chromium | **2.7** | 0.50 | 1 | 11/19/2016 04:47 |
| Cobalt | ND | 0.50 | 1 | 11/19/2016 04:47 |
| Copper | **21** | 0.50 | 1 | 11/19/2016 04:47 |
| Lead | **2.0** | 0.50 | 1 | 11/19/2016 04:47 |
| Mercury | ND | 0.050 | 1 | 11/19/2016 04:47 |
| Molybdenum | **0.95** | 0.50 | 1 | 11/19/2016 04:47 |
| Nickel | **1.5** | 0.50 | 1 | 11/19/2016 04:47 |
| Selenium | ND | 0.50 | 1 | 11/19/2016 04:47 |
| Silver | ND | 0.50 | 1 | 11/19/2016 04:47 |
| Thallium | ND | 0.50 | 1 | 11/19/2016 04:47 |
| Vanadium | **1.8** | 0.50 | 1 | 11/19/2016 04:47 |
| Zinc | **19** | 5.0 | 1 | 11/19/2016 04:47 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Terbium | 106 | 70-130 | 11/19/2016 04:47 |

Analyst(s): DB

*(Cont.)*

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http://www.mccampbell.com / E-mail: main@mccampbell.com

# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Environ | **WorkOrder:** | 1611874 |
| **Date Received:** | 11/17/16 15:20 | **Extraction Method:** | SW3050B |
| **Date Prepared:** | 11/17/16 | **Analytical Method:** | SW6020 |
| **Project:** | 03-21676JJ; Valley Gardens | **Unit:** | mg/Kg |

## CAM / CCR 17 Metals

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| PS-04 | 1611874-002A | Soil | 11/16/2016 10:45 | ICP-MS3 | 129999 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Antimony | ND | 0.50 | 1 | 11/21/2016 22:34 |
| Arsenic | ND | 0.50 | 1 | 11/21/2016 22:34 |
| Barium | **8.7** | 5.0 | 1 | 11/21/2016 22:34 |
| Beryllium | ND | 0.50 | 1 | 11/21/2016 22:34 |
| Cadmium | ND | 0.25 | 1 | 11/21/2016 22:34 |
| Chromium | **1.4** | 0.50 | 1 | 11/21/2016 22:34 |
| Cobalt | ND | 0.50 | 1 | 11/21/2016 22:34 |
| Copper | **12** | 0.50 | 1 | 11/21/2016 22:34 |
| Lead | **1.0** | 0.50 | 1 | 11/21/2016 22:34 |
| Mercury | ND | 0.050 | 1 | 11/21/2016 22:34 |
| Molybdenum | **0.61** | 0.50 | 1 | 11/21/2016 22:34 |
| Nickel | **0.79** | 0.50 | 1 | 11/21/2016 22:34 |
| Selenium | ND | 0.50 | 1 | 11/21/2016 22:34 |
| Silver | ND | 0.50 | 1 | 11/21/2016 22:34 |
| Thallium | ND | 0.50 | 1 | 11/21/2016 22:34 |
| Vanadium | **1.0** | 0.50 | 1 | 11/21/2016 22:34 |
| Zinc | **6.2** | 5.0 | 1 | 11/21/2016 22:34 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Terbium | 99 | 70-130 | 11/21/2016 22:34 |

Analyst(s): DB

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Environ | **WorkOrder:** | 1611874 |
| **Date Received:** | 11/17/16 15:20 | **Extraction Method:** | SW3050B |
| **Date Prepared:** | 11/17/16 | **Analytical Method:** | SW6020 |
| **Project:** | 03-21676JJ; Valley Gardens | **Unit:** | mg/Kg |

## CAM / CCR 17 Metals

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| PS-05 | 1611874-003A | Soil | 11/16/2016 11:20 | ICP-MS3 | 129999 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Antimony | ND | 0.50 | 1 | 11/19/2016 04:53 |
| Arsenic | **0.78** | 0.50 | 1 | 11/19/2016 04:53 |
| Barium | **18** | 5.0 | 1 | 11/19/2016 04:53 |
| Beryllium | ND | 0.50 | 1 | 11/19/2016 04:53 |
| Cadmium | ND | 0.25 | 1 | 11/19/2016 04:53 |
| Chromium | **3.2** | 0.50 | 1 | 11/19/2016 04:53 |
| Cobalt | ND | 0.50 | 1 | 11/19/2016 04:53 |
| Copper | **13** | 0.50 | 1 | 11/19/2016 04:53 |
| Lead | **2.2** | 0.50 | 1 | 11/19/2016 04:53 |
| Mercury | ND | 0.050 | 1 | 11/19/2016 04:53 |
| Molybdenum | **1.0** | 0.50 | 1 | 11/19/2016 04:53 |
| Nickel | **1.9** | 0.50 | 1 | 11/19/2016 04:53 |
| Selenium | ND | 0.50 | 1 | 11/19/2016 04:53 |
| Silver | ND | 0.50 | 1 | 11/19/2016 04:53 |
| Thallium | ND | 0.50 | 1 | 11/19/2016 04:53 |
| Vanadium | **2.2** | 0.50 | 1 | 11/19/2016 04:53 |
| Zinc | **11** | 5.0 | 1 | 11/19/2016 04:53 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Terbium | 112 | 70-130 | 11/19/2016 04:53 |

Analyst(s): DB

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Environ | **WorkOrder:** | 1611874 |
| **Date Received:** | 11/17/16 15:20 | **Extraction Method:** | SW3050B |
| **Date Prepared:** | 11/17/16 | **Analytical Method:** | SW6020 |
| **Project:** | 03-21676JJ; Valley Gardens | **Unit:** | mg/Kg |

## CAM / CCR 17 Metals

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| **PS-02** | **1611874-004A** | **Soil** | **11/16/2016 11:50** | **ICP-MS3** | **129999** |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Antimony | ND | 0.50 | 1 | 11/19/2016 04:59 |
| Arsenic | **1.9** | 0.50 | 1 | 11/19/2016 04:59 |
| Barium | **15** | 5.0 | 1 | 11/19/2016 04:59 |
| Beryllium | ND | 0.50 | 1 | 11/19/2016 04:59 |
| Cadmium | ND | 0.25 | 1 | 11/19/2016 04:59 |
| Chromium | **7.2** | 0.50 | 1 | 11/19/2016 04:59 |
| Cobalt | ND | 0.50 | 1 | 11/19/2016 04:59 |
| Copper | **13** | 0.50 | 1 | 11/19/2016 04:59 |
| Lead | **1.8** | 0.50 | 1 | 11/19/2016 04:59 |
| Mercury | ND | 0.050 | 1 | 11/19/2016 04:59 |
| Molybdenum | **0.62** | 0.50 | 1 | 11/19/2016 04:59 |
| Nickel | **1.2** | 0.50 | 1 | 11/19/2016 04:59 |
| Selenium | ND | 0.50 | 1 | 11/19/2016 04:59 |
| Silver | ND | 0.50 | 1 | 11/19/2016 04:59 |
| Thallium | ND | 0.50 | 1 | 11/19/2016 04:59 |
| Vanadium | **1.9** | 0.50 | 1 | 11/19/2016 04:59 |
| Zinc | **9.5** | 5.0 | 1 | 11/19/2016 04:59 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Terbium | 104 | 70-130 | 11/19/2016 04:59 |

Analyst(s): DB

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Environ | **WorkOrder:** | 1611874 |
| **Date Received:** | 11/17/16 15:20 | **Extraction Method:** | SW3050B |
| **Date Prepared:** | 11/17/16 | **Analytical Method:** | SW6020 |
| **Project:** | 03-21676JJ; Valley Gardens | **Unit:** | mg/Kg |

## CAM / CCR 17 Metals

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| PS-01 | 1611874-005A | Soil | 11/16/2016 12:10 | ICP-MS3 | 129999 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Antimony | ND | 0.50 | 1 | 11/19/2016 02:30 |
| Arsenic | ND | 0.50 | 1 | 11/19/2016 02:30 |
| Barium | **11** | 5.0 | 1 | 11/19/2016 02:30 |
| Beryllium | ND | 0.50 | 1 | 11/19/2016 02:30 |
| Cadmium | ND | 0.25 | 1 | 11/19/2016 02:30 |
| Chromium | **2.1** | 0.50 | 1 | 11/19/2016 02:30 |
| Cobalt | ND | 0.50 | 1 | 11/19/2016 02:30 |
| Copper | **4.1** | 0.50 | 1 | 11/19/2016 02:30 |
| Lead | **1.4** | 0.50 | 1 | 11/19/2016 02:30 |
| Mercury | ND | 0.050 | 1 | 11/19/2016 02:30 |
| Molybdenum | ND | 0.50 | 1 | 11/19/2016 02:30 |
| Nickel | **0.69** | 0.50 | 1 | 11/19/2016 02:30 |
| Selenium | ND | 0.50 | 1 | 11/19/2016 02:30 |
| Silver | ND | 0.50 | 1 | 11/19/2016 02:30 |
| Thallium | ND | 0.50 | 1 | 11/19/2016 02:30 |
| Vanadium | **1.3** | 0.50 | 1 | 11/19/2016 02:30 |
| Zinc | **5.0** | 5.0 | 1 | 11/19/2016 02:30 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Terbium | 112 | 70-130 | 11/19/2016 02:30 |

Analyst(s): DB

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Environ | **WorkOrder:** | 1611874 |
| **Date Prepared:** | 11/17/16 | **BatchID:** | 130003 |
| **Date Analyzed:** | 11/21/16 | **Extraction Method:** | SW3550B/3620B |
| **Instrument:** | GC23 | **Analytical Method:** | SW8081A/8082 |
| **Matrix:** | Soil | **Unit:** | mg/kg |
| **Project:** | 03-21676JJ; Valley Gardens | **Sample ID:** | MB/LCS-130003 |

## QC Summary Report SW8081A/8082

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|---|---|---|---|---|---|---|---|
| Aldrin | ND | 0.0412 | 0.0010 | 0.050 | - | 82 | 70-130 |
| a-BHC | ND | - | 0.0010 | - | - | - | - |
| b-BHC | ND | - | 0.0010 | - | - | - | - |
| d-BHC | ND | - | 0.0010 | - | - | - | - |
| g-BHC | ND | 0.0525 | 0.0010 | 0.050 | - | 105 | 70-130 |
| Chlordane (Technical) | ND | - | 0.025 | - | - | - | - |
| a-Chlordane | ND | - | 0.0010 | - | - | - | - |
| g-Chlordane | ND | - | 0.0010 | - | - | - | - |
| p,p-DDD | ND | - | 0.0010 | - | - | - | - |
| p,p-DDE | ND | - | 0.0010 | - | - | - | - |
| p,p-DDT | ND | 0.0412 | 0.0010 | 0.050 | - | 82 | 70-130 |
| Dieldrin | ND | 0.0614 | 0.0010 | 0.050 | - | 123 | 70-130 |
| Endosulfan I | ND | - | 0.0010 | - | - | - | - |
| Endosulfan II | ND | - | 0.0010 | - | - | - | - |
| Endosulfan sulfate | ND | - | 0.0010 | - | - | - | - |
| Endrin | ND | 0.0523 | 0.0010 | 0.050 | - | 105 | 70-130 |
| Endrin aldehyde | ND | - | 0.0010 | - | - | - | - |
| Endrin ketone | ND | - | 0.0010 | - | - | - | - |
| Heptachlor | ND | 0.0501 | 0.0010 | 0.050 | - | 100 | 70-130 |
| Heptachlor epoxide | ND | - | 0.0010 | - | - | - | - |
| Hexachlorobenzene | ND | - | 0.010 | - | - | - | - |
| Hexachlorocyclopentadiene | ND | - | 0.020 | - | - | - | - |
| Methoxychlor | ND | - | 0.0010 | - | - | - | - |
| Toxaphene | ND | - | 0.050 | - | - | - | - |
| Aroclor1016 | ND | - | 0.050 | - | - | - | - |
| Aroclor1221 | ND | - | 0.050 | - | - | - | - |
| Aroclor1232 | ND | - | 0.050 | - | - | - | - |
| Aroclor1242 | ND | - | 0.050 | - | - | - | - |
| Aroclor1248 | ND | - | 0.050 | - | - | - | - |
| Aroclor1254 | ND | - | 0.050 | - | - | - | - |
| Aroclor1260 | ND | - | 0.050 | - | - | - | - |
| PCBs, total | ND | - | 0.050 | - | - | - | - |
| **Surrogate Recovery** | | | | | | | |
| Decachlorobiphenyl | 0.0491 | 0.0464 | | 0.050 | 98 | 93 | 70-130 |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Environ | **WorkOrder:** | 1611874 |
| **Date Prepared:** | 11/17/16 | **BatchID:** | 130003 |
| **Date Analyzed:** | 11/19/16 | **Extraction Method:** | SW3550B/3620B |
| **Instrument:** | GC22 | **Analytical Method:** | SW8081A/8082 |
| **Matrix:** | Soil | **Unit:** | mg/kg |
| **Project:** | 03-21676JJ; Valley Gardens | **Sample ID:** | LCS/LCSD-130003 |

## QC Summary Report SW8081A/8082

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Aroclor1016 | 0.148 | 0.144 | 0.15 | 99 | 96 | 70-130 | 2.70 | 20 |
| Aroclor1260 | 0.145 | 0.141 | 0.15 | 97 | 94 | 70-130 | 3.06 | 20 |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Environ | **WorkOrder:** | 1611874 |
| **Date Prepared:** | 11/17/16 | **BatchID:** | 129985 |
| **Date Analyzed:** | 11/18/16 | **Extraction Method:** | SW3050B |
| **Instrument:** | ICP-MS2 | **Analytical Method:** | SW6020 |
| **Matrix:** | Soil | **Unit:** | mg/Kg |
| **Project:** | 03-21676JJ; Valley Gardens | **Sample ID:** | MB/LCS-129985<br>1611854-010AMS/MSD |

## QC Summary Report for Metals

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|---|---|---|---|---|---|---|---|
| Antimony | ND | 52.2 | 0.50 | 50 | - | 104 | 75-125 |
| Arsenic | ND | 54.7 | 0.50 | 50 | - | 109 | 75-125 |
| Barium | ND | 534 | 5.0 | 500 | - | 107 | 75-125 |
| Beryllium | ND | 56.9 | 0.50 | 50 | - | 114 | 75-125 |
| Cadmium | ND | 53.0 | 0.25 | 50 | - | 106 | 75-125 |
| Chromium | ND | 54.2 | 0.50 | 50 | - | 108 | 75-125 |
| Cobalt | ND | 55.5 | 0.50 | 50 | - | 111 | 75-125 |
| Copper | ND | 53.4 | 0.50 | 50 | - | 107 | 75-125 |
| Lead | ND | 52.5 | 0.50 | 50 | - | 105 | 75-125 |
| Mercury | ND | 1.36 | 0.050 | 1.25 | - | 109 | 75-125 |
| Molybdenum | ND | 48.4 | 0.50 | 50 | - | 97 | 75-125 |
| Nickel | ND | 53.1 | 0.50 | 50 | - | 106 | 75-125 |
| Selenium | ND | 52.7 | 0.50 | 50 | - | 105 | 75-125 |
| Silver | ND | 51.4 | 0.50 | 50 | - | 103 | 75-125 |
| Thallium | ND | 54.0 | 0.50 | 50 | - | 108 | 75-125 |
| Vanadium | ND | 54.6 | 0.50 | 50 | - | 109 | 75-125 |
| Zinc | ND | 542 | 5.0 | 500 | - | 108 | 75-125 |
| **Surrogate Recovery** | | | | | | | |
| Terbium | 556 | 550 | | 500 | 111 | 110 | 70-130 |

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CDPH ELAP 1644 • NELAP 4033ORELAP

QA/QC Officer

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Environ | **WorkOrder:** | 1611874 |
| **Date Prepared:** | 11/17/16 | **BatchID:** | 129985 |
| **Date Analyzed:** | 11/18/16 | **Extraction Method:** | SW3050B |
| **Instrument:** | ICP-MS2 | **Analytical Method:** | SW6020 |
| **Matrix:** | Soil | **Unit:** | mg/Kg |
| **Project:** | 03-21676JJ; Valley Gardens | **Sample ID:** | MB/LCS-129985<br>1611854-010AMS/MSD |

## QC Summary Report for Metals

| Analyte | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 49.6 | 50.2 | 50 | ND | 99 | 100 | 75-125 | 1.20 | 20 |
| Arsenic | 53.5 | 52.4 | 50 | 1.679 | 104 | 102 | 75-125 | 2.02 | 20 |
| Barium | 865 | 784 | 500 | 289.5 | 115 | 99 | 75-125 | 9.74 | 20 |
| Beryllium | 52.9 | 53.5 | 50 | ND | 105 | 106 | 75-125 | 1.22 | 20 |
| Cadmium | 51.0 | 49.5 | 50 | ND | 102 | 99 | 75-125 | 2.99 | 20 |
| Chromium | 94.1 | 90.7 | 50 | 40.63 | 107 | 100 | 75-125 | 3.72 | 20 |
| Cobalt | 57.2 | 57.5 | 50 | 7.626 | 99 | 100 | 75-125 | 0.453 | 20 |
| Copper | 66.8 | 66.9 | 50 | 16.88 | 100 | 100 | 75-125 | 0 | 20 |
| Lead | 56.4 | 54.4 | 50 | 4.765 | 103 | 99 | 75-125 | 3.72 | 20 |
| Mercury | 1.48 | 1.50 | 1.25 | 0.3610 | 89 | 91 | 75-125 | 1.48 | 20 |
| Molybdenum | 48.1 | 47.1 | 50 | ND | 96 | 94 | 75-125 | 2.08 | 20 |
| Nickel | 92.4 | 89.4 | 50 | 40.37 | 104 | 98 | 75-125 | 3.35 | 20 |
| Selenium | 50.8 | 49.3 | 50 | ND | 101 | 98 | 75-125 | 3.06 | 20 |
| Silver | 49.3 | 47.6 | 50 | ND | 98 | 95 | 75-125 | 3.53 | 20 |
| Thallium | 50.9 | 50.4 | 50 | ND | 102 | 101 | 75-125 | 0.987 | 20 |
| Vanadium | 92.1 | 85.4 | 50 | 34.98 | 114 | 101 | 75-125 | 7.50 | 20 |
| Zinc | 547 | 534 | 500 | 37.82 | 102 | 99 | 75-125 | 2.41 | 20 |
| **Surrogate Recovery** | | | | | | | | | |
| Terbium | 543 | 548 | 500 | | 109 | 110 | 70-130 | 0.935 | 20 |

| Analyte | DLT Result | DLTRef Val | %D | %D Limit |
|---|---|---|---|---|
| Antimony | ND<2.5 | ND | - | - |
| Arsenic | ND<2.5 | 1.679 | - | - |
| Barium | 267 | 289.5 | 7.77 | 20 |
| Beryllium | ND<2.5 | ND | - | - |
| Cadmium | ND<1.2 | ND | - | - |
| Chromium | 40.5 | 40.63 | 0.320 | 20 |
| Cobalt | 8.02 | 7.626 | 5.17 | - |
| Copper | 16.1 | 16.88 | 4.62 | 20 |
| Lead | 4.67 | 4.765 | 1.99 | - |
| Mercury | 0.385 | 0.3610 | 6.65 | - |
| Molybdenum | ND<2.5 | ND | - | - |
| Nickel | 39.9 | 40.37 | 1.16 | 20 |
| Selenium | ND<2.5 | ND | - | - |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Environ | **WorkOrder:** | 1611874 |
| **Date Prepared:** | 11/17/16 | **BatchID:** | 129985 |
| **Date Analyzed:** | 11/18/16 | **Extraction Method:** | SW3050B |
| **Instrument:** | ICP-MS2 | **Analytical Method:** | SW6020 |
| **Matrix:** | Soil | **Unit:** | mg/Kg |
| **Project:** | 03-21676JJ; Valley Gardens | **Sample ID:** | MB/LCS-129985<br>1611854-010AMS/MSD |

## QC Summary Report for Metals

| Analyte | DLT Result | DLTRef Val | %D | %D Limit |
|---|---|---|---|---|
| Silver | ND<2.5 | ND | - | - |
| Thallium | ND<2.5 | ND | - | - |
| Vanadium | 35.0 | 34.98 | 0.0572 | 20 |
| Zinc | 39.5 | 37.82 | 4.44 | - |

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Environ | **WorkOrder:** | 1611874 |
| **Date Prepared:** | 11/17/16 | **BatchID:** | 129999 |
| **Date Analyzed:** | 11/19/16 | **Extraction Method:** | SW3050B |
| **Instrument:** | ICP-MS3 | **Analytical Method:** | SW6020 |
| **Matrix:** | Soil | **Unit:** | mg/Kg |
| **Project:** | 03-21676JJ; Valley Gardens | **Sample ID:** | MB/LCS-129999<br>1611874-005AMS/MSD |

## QC Summary Report for Metals

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|---|---|---|---|---|---|---|---|
| Antimony | ND | 51.1 | 0.50 | 50 | - | 102 | 75-125 |
| Arsenic | ND | 51.5 | 0.50 | 50 | - | 103 | 75-125 |
| Barium | ND | 526 | 5.0 | 500 | - | 105 | 75-125 |
| Beryllium | ND | 53.8 | 0.50 | 50 | - | 108 | 75-125 |
| Cadmium | ND | 51.8 | 0.25 | 50 | - | 104 | 75-125 |
| Chromium | ND | 52.0 | 0.50 | 50 | - | 104 | 75-125 |
| Cobalt | ND | 49.4 | 0.50 | 50 | - | 99 | 75-125 |
| Copper | ND | 52.7 | 0.50 | 50 | - | 105 | 75-125 |
| Lead | ND | 51.8 | 0.50 | 50 | - | 104 | 75-125 |
| Mercury | ND | 1.23 | 0.050 | 1.25 | - | 99 | 75-125 |
| Molybdenum | ND | 50.0 | 0.50 | 50 | - | 100 | 75-125 |
| Nickel | ND | 51.9 | 0.50 | 50 | - | 104 | 75-125 |
| Selenium | ND | 50.5 | 0.50 | 50 | - | 101 | 75-125 |
| Silver | ND | 52.4 | 0.50 | 50 | - | 105 | 75-125 |
| Thallium | ND | 48.4 | 0.50 | 50 | - | 97 | 75-125 |
| Vanadium | ND | 52.0 | 0.50 | 50 | - | 104 | 75-125 |
| Zinc | ND | 524 | 5.0 | 500 | - | 105 | 75-125 |
| **Surrogate Recovery** | | | | | | | |
| Terbium | 528 | 546 | | 500 | 106 | 109 | 70-130 |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Environ | **WorkOrder:** | 1611874 |
| **Date Prepared:** | 11/17/16 | **BatchID:** | 129999 |
| **Date Analyzed:** | 11/19/16 | **Extraction Method:** | SW3050B |
| **Instrument:** | ICP-MS3 | **Analytical Method:** | SW6020 |
| **Matrix:** | Soil | **Unit:** | mg/Kg |
| **Project:** | 03-21676JJ; Valley Gardens | **Sample ID:** | MB/LCS-129999<br>1611874-005AMS/MSD |

## QC Summary Report for Metals

| Analyte | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 53.4 | 56.3 | 50 | ND | 107 | 113 | 75-125 | 5.28 | 20 |
| Arsenic | 54.3 | 57.0 | 50 | ND | 108 | 113 | 75-125 | 4.91 | 20 |
| Barium | 570 | 587 | 500 | 10.63 | 112 | 115 | 75-125 | 2.89 | 20 |
| Beryllium | 56.4 | 58.6 | 50 | ND | 113 | 117 | 75-125 | 3.88 | 20 |
| Cadmium | 54.6 | 56.6 | 50 | ND | 109 | 113 | 75-125 | 3.58 | 20 |
| Chromium | 57.7 | 59.3 | 50 | 2.121 | 111 | 114 | 75-125 | 2.73 | 20 |
| Cobalt | 51.4 | 53.1 | 50 | ND | 103 | 106 | 75-125 | 3.31 | 20 |
| Copper | 58.1 | 59.1 | 50 | 4.094 | 108 | 110 | 75-125 | 1.76 | 20 |
| Lead | 56.2 | 57.6 | 50 | 1.353 | 110 | 112 | 75-125 | 2.37 | 20 |
| Mercury | 1.33 | 1.38 | 1.25 | ND | 106 | 110 | 75-125 | 3.76 | 20 |
| Molybdenum | 52.4 | 55.0 | 50 | ND | 104 | 110 | 75-125 | 4.97 | 20 |
| Nickel | 55.6 | 57.1 | 50 | 0.6895 | 110 | 113 | 75-125 | 2.68 | 20 |
| Selenium | 52.9 | 54.5 | 50 | ND | 106 | 109 | 75-125 | 3.00 | 20 |
| Silver | 55.4 | 57.5 | 50 | ND | 111 | 115 | 75-125 | 3.72 | 20 |
| Thallium | 51.5 | 52.8 | 50 | ND | 103 | 106 | 75-125 | 2.61 | 20 |
| Vanadium | 56.7 | 58.3 | 50 | 1.344 | 111 | 114 | 75-125 | 2.80 | 20 |
| Zinc | 551 | 569 | 500 | 5.009 | 109 | 113 | 75-125 | 3.12 | 20 |
| **Surrogate Recovery** | | | | | | | | | |
| Terbium | 570 | 601 | 500 | | 114 | 120 | 70-130 | 5.25 | 20 |

| Analyte | DLT Result | DLTRef Val | %D | %D Limit |
|---|---|---|---|---|
| Antimony | ND<2.5 | ND | - | - |
| Arsenic | ND<2.5 | ND | - | - |
| Barium | ND<25 | 10.63 | - | - |
| Beryllium | ND<2.5 | ND | - | - |
| Cadmium | ND<1.2 | ND | - | - |
| Chromium | ND<2.5 | 2.121 | - | - |
| Cobalt | ND<2.5 | ND | - | - |
| Copper | 3.84 | 4.094 | 6.20 | - |
| Lead | ND<2.5 | 1.353 | - | - |
| Mercury | ND<0.25 | ND | - | - |
| Molybdenum | ND<2.5 | ND | - | - |
| Nickel | ND<2.5 | 0.6895 | - | - |
| Selenium | ND<2.5 | ND | - | - |

*(Cont.)*

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Environ | **WorkOrder:** | 1611874 |
| **Date Prepared:** | 11/17/16 | **BatchID:** | 129999 |
| **Date Analyzed:** | 11/19/16 | **Extraction Method:** | SW3050B |
| **Instrument:** | ICP-MS3 | **Analytical Method:** | SW6020 |
| **Matrix:** | Soil | **Unit:** | mg/Kg |
| **Project:** | 03-21676JJ; Valley Gardens | **Sample ID:** | MB/LCS-129999<br>1611874-005AMS/MSD |

## QC Summary Report for Metals

| Analyte | DLT Result | DLTRef Val | %D | %D Limit |
|---|---|---|---|---|
| Silver | ND<2.5 | ND | - | - |
| Thallium | ND<2.5 | ND | - | - |
| Vanadium | ND<2.5 | 1.344 | - | - |
| Zinc | ND<25 | 5.009 | - | - |

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

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(925) 252-9262

# CHAIN-OF-CUSTODY RECORD



**WorkOrder: 1611874** **ClientCode: ENVE**

☐ WaterTrax ☐ WriteOn ☐ EDF ☑ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

**Report to:**
Anne Gates
Environ
2200 Powell Street, 7th Floor
Emeryville, CA 94608
(510) 655-7400 FAX: 510-655-9517

Email: agates@ramboll.com
cc/3rd Party: twinger@ramboll.com; jpkane@ramboll.co
PO:
ProjectNo: 03-21676JJ; Valley Gardens

**Bill to:**
Glenn Chickering
Environ
2200 Powell Street, Suite. 700
Emeryville, CA 94608
gchickering@environcorp.com

**Requested TAT:** **5 days;**

***Date Received:*** **11/17/2016**
***Date Logged:*** **11/17/2016**

| Lab ID | Client ID | Matrix | Collection Date | Hold | Requested Tests (See legend below) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1611874-001 | PS-03 | Soil | 11/16/2016 10:07 | ☐ | A | A | | | | | | | | | | |
| 1611874-002 | PS-04 | Soil | 11/16/2016 10:45 | ☐ | A | A | | | | | | | | | | |
| 1611874-003 | PS-05 | Soil | 11/16/2016 11:20 | ☐ | A | A | | | | | | | | | | |
| 1611874-004 | PS-02 | Soil | 11/16/2016 11:50 | ☐ | A | A | | | | | | | | | | |
| 1611874-005 | PS-01 | Soil | 11/16/2016 12:10 | ☐ | A | A | | | | | | | | | | |

**Test Legend:**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | 8081PCB_ESL_S (J) | 2 | CAM17MS_TTLC_S | 3 | | 4 | |
| 5 | | 6 | | 7 | | 8 | |
| 9 | | 10 | | 11 | | 12 | |

**Prepared by: Agustina Venegas**

**Comments:** ESLs added 11/18/16

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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# WORK ORDER SUMMARY

**Client Name:** ENVIRON
**Client Contact:** Anne Gates
**Contact's Email:** agates@ramboll.com

**Project:** 03-21676JJ; Valley Gardens
**Comments:** ESLs added 11/18/16

**Work Order:** 1611874
**QC Level:** LEVEL 2
**Date Logged:** 11/17/2016

☐ WaterTrax ☐ WriteOn ☐ EDF ☑ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

| Lab ID | Client ID | Matrix | Test Name | Containers /Composites | Bottle & Preservative | De-chlorinated | Collection Date & Time | TAT | Sediment Content | Hold | SubOut |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1611874-001A | PS-03 | Soil | SW6020 (CAM 17) | 4 / (4:1) | Acetate Liner | ☐ | 11/16/2016 10:07 | 5 days | | ☐ | |
| | | | SW8081A/8082 (OC Pesticides+PCBs) ESLs | | | ☐ | | 5 days | | ☐ | |
| 1611874-002A | PS-04 | Soil | SW6020 (CAM 17) | 4 / (4:1) | Acetate Liner | ☐ | 11/16/2016 10:45 | 5 days | | ☐ | |
| | | | SW8081A/8082 (OC Pesticides+PCBs) ESLs | | | ☐ | | 5 days | | ☐ | |
| 1611874-003A | PS-05 | Soil | SW6020 (CAM 17) | 4 / (4:1) | Acetate Liner | ☐ | 11/16/2016 11:20 | 5 days | | ☐ | |
| | | | SW8081A/8082 (OC Pesticides+PCBs) ESLs | | | ☐ | | 5 days | | ☐ | |
| 1611874-004A | PS-02 | Soil | SW6020 (CAM 17) | 3 / (3:1) | Acetate Liner | ☐ | 11/16/2016 11:50 | 5 days | | ☐ | |
| | | | SW8081A/8082 (OC Pesticides+PCBs) ESLs | | | ☐ | | 5 days | | ☐ | |
| 1611874-005A | PS-01 | Soil | SW6020 (CAM 17) | 3 / (3:1) | Acetate Liner | ☐ | 11/16/2016 12:10 | 5 days | | ☐ | |
| | | | SW8081A/8082 (OC Pesticides+PCBs) ESLs | | | ☐ | | 5 days | | ☐ | |

**NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**

**- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.**

RAMBOLL ENVIRON

2200 Powell Street, Suite 700
Emeryville, California 94608
(510) 655-7400
(510) 655-9517 (fax)

1611874

# CHAIN-of-CUSTODY



PROJECT NAME / FACILITY ID: Valley Gardens
FIELD PERSON: Jason Kane & Tommy Winger
PROJECT NUMBER: 03-21676JJ
DATE: 11/16/2016
PROJECT MANAGER: Anne Gates
PROJECT LOCATION: Scotts Valley, CA
LABORATORY: McCampbell
IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #:
WO#:

SAMPLER: Tom Winger
SIGNATURE:

| SAMPLE I.D. NUMBER | YEAR 2016 SAMPLE DATE | SAMPLE TIME | SAMPLE DEPTH | MATRIX (S) SOIL (G) GAS (W) WATER | NUMBER OF CONTAINERS | FILTERED/UNFILTERED (F/U) | PRESERVATION (SEE KEY) | ANALYSIS REQUIRED: CAM 17 metals (6010B) | PCBs/Pesticides (8081) | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|
| PS-03-D | 11/16 | 0940 | - | S | 1 | U | No | X | X | Report results to: |
| PS-03-C | | 0950 | | | | | | | | Agates@ramboll.com, |
| PS-03-B | | 1000 | | | | | | | | JPKane@ramboll.com, |
| PS-03-A | | 1007 | | | | | | | | Twinger@ramboll.com |
| PS-04-A | | 1020 | | | | | | | | |
| PS-04-D | | 1030 | | | | | | | | 4-point composite ids are: |
| PS-04-C | | 1037 | | | | | | | | PS-03 |
| PS-04-B | | 1045 | | | | | | | | PS-04 |
| PS-05-D | | 1100 | | | | | | | | PS-05 |
| PS-05-C | 11/16 | 1105 | - | S | 1 | U | No | X | X | 3-point composite ids are: |
| TOTAL | X | X | X | | | | | | | PS-01, PS-02 |

H = HCL; N = $HNO_3$; S = $H_2SO_4$; U = UNKNOWN; NO = NONE; O = OTHER

| RELINQUISHED BY: | TIME/DATE: | RECEIVED BY: | TIME/DATE: |
|---|---|---|---|
| | 11/17/16 @ 1053 | (COMPANY): | 11/17/16 1055 |
| RELINQUISHED BY: | TIME/DATE: | RECEIVED BY: | TIME/DATE: |
| | 11/17/16 1520 | (COMPANY): | 11/17/16 1520 |
| RELINQUISHED BY: | TIME/DATE: | RECEIVED BY: | TIME/DATE: |
| | | (COMPANY): | |

TURNAROUND TIME (CIRCLE ONE): SAMEDAY, 24 HOURS, 48 HOURS, 72 HOURS, 5 DAYS, NORMAL

SAMPLE INTEGRITY — INTACT: Y N Temp 5.2

IF SEALED, SEAL INTEGRITY — INTACT: Y N

*TESLs Added 11/18/16

RAMBOLL ENVIRON

2200 Powell Street, Suite 700
Emeryville, California 94608
(510) 655-7400
(510) 655-9517 (fax)

# CHAIN-of-CUSTODY



PROJECT NAME / FACILITY ID: Valley Gardens — FIELD PERSON: Jason Kane & Tommy Winger

PROJECT NUMBER: 03-21676JJ — DATE: 11/16/2016 — PROJECT MANAGER: Anne Gates

PROJECT LOCATION: Scotts Valley, CA — LABORATORY: McCampbell

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #: _____ WO#: _____

SAMPLER: T. Wing

SIGNATURE:

| SAMPLE I.D. NUMBER | YEAR 2016 SAMPLE DATE | SAMPLE TIME | SAMPLE DEPTH | MATRIX (S) SOIL (G) GAS (W) WATER | NUMBER OF CONTAINERS | FILTERED/UNFILTERED (F/U) | PRESERVATION (SEE KEY) | ANALYSIS REQUIRED: CAM 17 metals (6010B) | OCPs/PCBs (8081) | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|
| PS-05-B | 11/16 | 1113 | – | S | 1 | U | No | | | see p. 1 for composite requests |
| PS-05-A | | 1120 | | | | | | | | |
| PS-02-C | | 1140 | | | | | | | | |
| PS-02-B | | 1145 | | | | | | | | |
| PS-02-A | | 1150 | | | | | | | | |
| PS-01-B | | 1200 | | | | | | | | |
| PS-01-A | | 1205 | | | | | | | | |
| PS-01-C | 11/16 | 1210 | – | S | 1 | U | No | | | |
| TOTAL | X | X | X | | 18 | | | | | |

H = HCL; N = $HNO_3$; S = $H_2SO_4$; U = UNKNOWN; NO = NONE; O = OTHER

| RELINQUISHED BY: | TIME/DATE: | RECEIVED BY: | TIME/DATE: |
|---|---|---|---|
| | 11/17/16 @ 1053 | (COMPANY): | 11-17-16 1055 |
| RELINQUISHED BY: | TIME/DATE: | RECEIVED BY: | TIME/DATE: 11/17/16 |
| | 11-17-16 1520 | (COMPANY): Calscience | 1520 |
| RELINQUISHED BY: | TIME/DATE: | RECEIVED BY: | TIME/DATE: |
| | | (COMPANY): | |

TURNAROUND TIME (CIRCLE ONE): SAMEDAY — 24 HOURS — 48 HOURS — 72 HOURS — 5 DAYS — NORMAL

SAMPLE INTEGRITY — INTACT: Y N Temp_____

IF SEALED, SEAL INTEGRITY — INTACT: Y N

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# Sample Receipt Checklist

Client Name: **Environ**
Project Name: **03-21676JJ; Valley Gardens**

WorkOrder №: **1611874** Matrix: Soil
Carrier: David Shaver (MAI Courier)

Date and Time Received: **11/17/2016 15:20**
Date Logged: **11/17/2016**
Received by: Agustina Venegas
Logged by: Agustina Venegas

## Chain of Custody (COC) Information

| | | |
|---|---|---|
| Chain of custody present? | Yes ☑ | No ☐ |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ |
| Sample IDs noted by Client on COC? | Yes ☑ | No ☐ |
| Date and Time of collection noted by Client on COC? | Yes ☑ | No ☐ |
| Sampler's name noted on COC? | Yes ☑ | No ☐ |

## Sample Receipt Information

| | | | |
|---|---|---|---|
| Custody seals intact on shipping container/cooler? | Yes ☐ | No ☐ | NA ☑ |
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | |
| Samples in proper containers/bottles? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |

## Sample Preservation and Hold Time (HT) Information

| | | | |
|---|---|---|---|
| All samples received within holding time? | Yes ☑ | No ☐ | NA ☐ |
| Sample/Temp Blank temperature | Temp: 5.2°C | | NA ☐ |
| Water - VOA vials have zero headspace / no bubbles? | Yes ☐ | No ☐ | NA ☑ |
| Sample labels checked for correct preservation? | Yes ☑ | No ☐ | |
| pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? | Yes ☐ | No ☐ | NA ☑ |
| Samples Received on Ice? | Yes ☑ | No ☐ | |

(Ice Type: WET ICE )

UCMR3 Samples:

| | | | |
|---|---|---|---|
| Total Chlorine tested and acceptable upon receipt for EPA 522? | Yes ☐ | No ☐ | NA ☑ |
| Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539? | Yes ☐ | No ☐ | NA ☑ |

Comments:

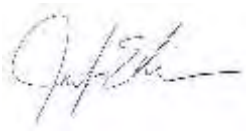
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# Analytical Report

| | | | |
|---|---|---|---|
| **WorkOrder:** | 2108589 | **Amended:** | 08/23/2021 |
| | | **Revision:** | 1 |
| **Report Created for:** | Ramboll | | |
| | 2200 Powell Street, 7th Floor<br>Emeryville, CA 94608 | | |
| **Project Contact:** | Jason Kane | | |
| **Project P.O.:** | | | |
| **Project:** | 1690021780; Valley Gardens | | |
| **Project Received:** | 08/11/2021 | | |

Analytical Report reviewed & approved for release on 08/20/2021 by:



Jennifer Lagerbom

Project Manager

***The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in a case narrative.***



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# Glossary of Terms & Qualifier Definitions

**Client:** Ramboll
**Project:** 1690021780; Valley Gardens
**WorkOrder:** 2108589

## Glossary Abbreviation

| | |
|---|---|
| %D | Serial Dilution Percent Difference |
| 95% Interval | 95% Confident Interval |
| CPT | Consumer Product Testing not NELAP Accredited |
| DF | Dilution Factor |
| DI WET | (DISTLC) Waste Extraction Test using DI water |
| DISS | Dissolved (direct analysis of 0.45 µm filtered and acidified water sample) |
| DLT | Dilution Test (Serial Dilution) |
| DUP | Duplicate |
| EDL | Estimated Detection Limit |
| ERS | External reference sample. Second source calibration verification. |
| ITEF | International Toxicity Equivalence Factor |
| LCS | Laboratory Control Sample |
| LQL | Lowest Quantitation Level |
| MB | Method Blank |
| MB % Rec | % Recovery of Surrogate in Method Blank, if applicable |
| MDL | Method Detection Limit |
| ML | Minimum Level of Quantitation |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| N/A | Not Applicable |
| ND | Not detected at or above the indicated MDL or RL |
| NR | Data Not Reported due to matrix interference or insufficient sample amount. |
| PDS | Post Digestion Spike |
| PDSD | Post Digestion Spike Duplicate |
| PF | Prep Factor |
| RD | Relative Difference |
| RL | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.) |
| RPD | Relative Percent Deviation |
| RRT | Relative Retention Time |
| SPK Val | Spike Value |
| SPKRef Val | Spike Reference Value |
| SPLP | Synthetic Precipitation Leachate Procedure |
| ST | Sorbent Tube |
| TCLP | Toxicity Characteristic Leachate Procedure |
| TEQ | Toxicity Equivalents |
| TZA | TimeZone Net Adjustment for sample collected outside of MAI's UTC. |
| WET (STLC) | Waste Extraction Test (Soluble Threshold Limit Concentration) |

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# Glossary of Terms & Qualifier Definitions

**Client:** Ramboll
**Project:** 1690021780; Valley Gardens
**WorkOrder:** 2108589

## Analytical Qualifiers

| | |
|---|---|
| P | Agreement between quantitative confirmation results exceed method recommended limits |
| a2 | Sample diluted due to cluttered chromatogram. |
| a3 | Sample diluted due to high organic content interfering with quantitative/or qualitative analysis. |
| b1 | Aqueous sample that contains greater than ~1 vol. % sediment |
| e7 | Oil range compounds are detected. |

## Quality Control Qualifiers

| | |
|---|---|
| F2 | LCS/LCSD recovery and/or RPD/RSD is out of acceptance criteria. |
| F10 | MS/MSD outside control limits. Physical or chemical interferences exist due to sample matrix. |

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW3550B |
| **Date Prepared:** | 08/11/2021 | **Analytical Method:** | SW8081A/8082 |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | mg/kg |

## Organochlorine Pesticides + PCBs

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| SB02-0.5 | 2108589-003A | Soil | 08/09/2021 09:40 | GC23 08162120.d | 227419 |

| Analytes | Result | Qualifiers | RL | DF | Date Analyzed |
|---|---|---|---|---|---|
| Aldrin | ND | | 0.0050 | 5 | 08/16/2021 16:27 |
| a-BHC | ND | | 0.0050 | 5 | 08/16/2021 16:27 |
| b-BHC | ND | | 0.0050 | 5 | 08/16/2021 16:27 |
| d-BHC | ND | | 0.0050 | 5 | 08/16/2021 16:27 |
| g-BHC | ND | | 0.0050 | 5 | 08/16/2021 16:27 |
| Chlordane (Technical) | **0.91** | P | 0.12 | 5 | 08/16/2021 16:27 |
| a-Chlordane | **0.12** | | 0.0050 | 5 | 08/16/2021 16:27 |
| g-Chlordane | **0.079** | P | 0.0050 | 5 | 08/16/2021 16:27 |
| p,p-DDD | ND | | 0.0050 | 5 | 08/16/2021 16:27 |
| p,p-DDE | ND | | 0.0050 | 5 | 08/16/2021 16:27 |
| p,p-DDT | ND | | 0.0050 | 5 | 08/16/2021 16:27 |
| Dieldrin | ND | | 0.0050 | 5 | 08/16/2021 16:27 |
| Endosulfan I | **0.032** | P | 0.0050 | 5 | 08/16/2021 16:27 |
| Endosulfan II | ND | | 0.0050 | 5 | 08/16/2021 16:27 |
| Endosulfan sulfate | ND | | 0.0050 | 5 | 08/16/2021 16:27 |
| Endrin | ND | | 0.0050 | 5 | 08/16/2021 16:27 |
| Endrin aldehyde | ND | | 0.0050 | 5 | 08/16/2021 16:27 |
| Endrin ketone | ND | | 0.0050 | 5 | 08/16/2021 16:27 |
| Heptachlor | ND | | 0.0050 | 5 | 08/16/2021 16:27 |
| Heptachlor epoxide | **0.022** | | 0.0050 | 5 | 08/16/2021 16:27 |
| Hexachlorobenzene | ND | | 0.050 | 5 | 08/16/2021 16:27 |
| Hexachlorocyclopentadiene | ND | | 0.10 | 5 | 08/16/2021 16:27 |
| Methoxychlor | ND | | 0.0050 | 5 | 08/16/2021 16:27 |
| Toxaphene | ND | | 0.25 | 5 | 08/16/2021 16:27 |
| Aroclor1016 | ND | | 0.25 | 5 | 08/16/2021 16:27 |
| Aroclor1221 | ND | | 0.25 | 5 | 08/16/2021 16:27 |
| Aroclor1232 | ND | | 0.25 | 5 | 08/16/2021 16:27 |
| Aroclor1242 | ND | | 0.25 | 5 | 08/16/2021 16:27 |
| Aroclor1248 | ND | | 0.25 | 5 | 08/16/2021 16:27 |
| Aroclor1254 | ND | | 0.25 | 5 | 08/16/2021 16:27 |
| Aroclor1260 | ND | | 0.25 | 5 | 08/16/2021 16:27 |
| PCBs, total | ND | | 0.25 | 5 | 08/16/2021 16:27 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 77 | 60-130 | 08/16/2021 16:27 |

Analyst(s): CN

Analytical Comments: a3

*(Cont.)*

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW3550B |
| **Date Prepared:** | 08/11/2021 | **Analytical Method:** | SW8081A/8082 |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | mg/kg |

## Organochlorine Pesticides + PCBs

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| SB03-0.5 | 2108589-005A | Soil | 08/09/2021 09:58 | GC40 08162172.d | 227419 |

| Analytes | Result | Qualifiers | RL | DF | Date Analyzed |
|---|---|---|---|---|---|
| Aldrin | ND | | 0.0050 | 5 | 08/17/2021 04:28 |
| a-BHC | ND | | 0.0050 | 5 | 08/17/2021 04:28 |
| b-BHC | ND | | 0.0050 | 5 | 08/17/2021 04:28 |
| d-BHC | ND | | 0.0050 | 5 | 08/17/2021 04:28 |
| g-BHC | ND | | 0.0050 | 5 | 08/17/2021 04:28 |
| Chlordane (Technical) | **0.74** | | 0.12 | 5 | 08/17/2021 04:28 |
| a-Chlordane | **0.12** | | 0.0050 | 5 | 08/17/2021 04:28 |
| g-Chlordane | **0.083** | P | 0.0050 | 5 | 08/17/2021 04:28 |
| p,p-DDD | ND | | 0.0050 | 5 | 08/17/2021 04:28 |
| p,p-DDE | ND | | 0.0050 | 5 | 08/17/2021 04:28 |
| p,p-DDT | ND | | 0.0050 | 5 | 08/17/2021 04:28 |
| Dieldrin | ND | | 0.0050 | 5 | 08/17/2021 04:28 |
| Endosulfan I | ND | | 0.0050 | 5 | 08/17/2021 04:28 |
| Endosulfan II | ND | | 0.0050 | 5 | 08/17/2021 04:28 |
| Endosulfan sulfate | ND | | 0.0050 | 5 | 08/17/2021 04:28 |
| Endrin | ND | | 0.0050 | 5 | 08/17/2021 04:28 |
| Endrin aldehyde | ND | | 0.0050 | 5 | 08/17/2021 04:28 |
| Endrin ketone | ND | | 0.0050 | 5 | 08/17/2021 04:28 |
| Heptachlor | ND | | 0.0050 | 5 | 08/17/2021 04:28 |
| Heptachlor epoxide | **0.015** | | 0.0050 | 5 | 08/17/2021 04:28 |
| Hexachlorobenzene | ND | | 0.050 | 5 | 08/17/2021 04:28 |
| Hexachlorocyclopentadiene | ND | | 0.10 | 5 | 08/17/2021 04:28 |
| Methoxychlor | ND | | 0.0050 | 5 | 08/17/2021 04:28 |
| Toxaphene | ND | | 0.25 | 5 | 08/17/2021 04:28 |
| Aroclor1016 | ND | | 0.25 | 5 | 08/17/2021 04:28 |
| Aroclor1221 | ND | | 0.25 | 5 | 08/17/2021 04:28 |
| Aroclor1232 | ND | | 0.25 | 5 | 08/17/2021 04:28 |
| Aroclor1242 | ND | | 0.25 | 5 | 08/17/2021 04:28 |
| Aroclor1248 | ND | | 0.25 | 5 | 08/17/2021 04:28 |
| Aroclor1254 | ND | | 0.25 | 5 | 08/17/2021 04:28 |
| Aroclor1260 | ND | | 0.25 | 5 | 08/17/2021 04:28 |
| PCBs, total | ND | | 0.25 | 5 | 08/17/2021 04:28 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 79 | 60-130 | 08/17/2021 04:28 |

Analyst(s): CN

Analytical Comments: a2

*(Cont.)*

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http://www.mccampbell.com / E-mail: main@mccampbell.com

# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW3550B |
| **Date Prepared:** | 08/11/2021 | **Analytical Method:** | SW8081A/8082 |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | mg/kg |

## Organochlorine Pesticides + PCBs

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| SB04-0.5 | 2108589-007A | Soil | 08/09/2021 10:10 | GC40 08162173.d | 227419 |

| Analytes | Result | Qualifiers | RL | DF | Date Analyzed |
|---|---|---|---|---|---|
| Aldrin | ND | | 0.010 | 10 | 08/17/2021 04:42 |
| a-BHC | ND | | 0.010 | 10 | 08/17/2021 04:42 |
| b-BHC | ND | | 0.010 | 10 | 08/17/2021 04:42 |
| d-BHC | ND | | 0.010 | 10 | 08/17/2021 04:42 |
| g-BHC | ND | | 0.010 | 10 | 08/17/2021 04:42 |
| Chlordane (Technical) | **2.2** | P | 0.25 | 10 | 08/17/2021 04:42 |
| a-Chlordane | **0.36** | | 0.010 | 10 | 08/17/2021 04:42 |
| g-Chlordane | **0.25** | P | 0.010 | 10 | 08/17/2021 04:42 |
| p,p-DDD | ND | | 0.010 | 10 | 08/17/2021 04:42 |
| p,p-DDE | ND | | 0.010 | 10 | 08/17/2021 04:42 |
| p,p-DDT | ND | | 0.010 | 10 | 08/17/2021 04:42 |
| Dieldrin | ND | | 0.010 | 10 | 08/17/2021 04:42 |
| Endosulfan I | ND | | 0.010 | 10 | 08/17/2021 04:42 |
| Endosulfan II | ND | | 0.010 | 10 | 08/17/2021 04:42 |
| Endosulfan sulfate | ND | | 0.010 | 10 | 08/17/2021 04:42 |
| Endrin | ND | | 0.010 | 10 | 08/17/2021 04:42 |
| Endrin aldehyde | ND | | 0.010 | 10 | 08/17/2021 04:42 |
| Endrin ketone | ND | | 0.010 | 10 | 08/17/2021 04:42 |
| Heptachlor | ND | | 0.010 | 10 | 08/17/2021 04:42 |
| Heptachlor epoxide | **0.045** | | 0.010 | 10 | 08/17/2021 04:42 |
| Hexachlorobenzene | ND | | 0.10 | 10 | 08/17/2021 04:42 |
| Hexachlorocyclopentadiene | ND | | 0.20 | 10 | 08/17/2021 04:42 |
| Methoxychlor | ND | | 0.010 | 10 | 08/17/2021 04:42 |
| Toxaphene | ND | | 0.50 | 10 | 08/17/2021 04:42 |
| Aroclor1016 | ND | | 0.50 | 10 | 08/17/2021 04:42 |
| Aroclor1221 | ND | | 0.50 | 10 | 08/17/2021 04:42 |
| Aroclor1232 | ND | | 0.50 | 10 | 08/17/2021 04:42 |
| Aroclor1242 | ND | | 0.50 | 10 | 08/17/2021 04:42 |
| Aroclor1248 | ND | | 0.50 | 10 | 08/17/2021 04:42 |
| Aroclor1254 | ND | | 0.50 | 10 | 08/17/2021 04:42 |
| Aroclor1260 | ND | | 0.50 | 10 | 08/17/2021 04:42 |
| PCBs, total | ND | | 0.50 | 10 | 08/17/2021 04:42 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 94 | 60-130 | 08/17/2021 04:42 |

Analyst(s): CN

Analytical Comments: a2

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW3550B |
| **Date Prepared:** | 08/11/2021 | **Analytical Method:** | SW8081A/8082 |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | mg/kg |

## Organochlorine Pesticides + PCBs

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| SB05-0.5 | 2108589-009A | Soil | 08/09/2021 10:30 | GC40 08162174.d | 227419 |

| Analytes | Result | Qualifiers | RL | DF | Date Analyzed |
|---|---|---|---|---|---|
| Aldrin | ND | | 0.0050 | 5 | 08/17/2021 04:56 |
| a-BHC | ND | | 0.0050 | 5 | 08/17/2021 04:56 |
| b-BHC | ND | | 0.0050 | 5 | 08/17/2021 04:56 |
| d-BHC | ND | | 0.0050 | 5 | 08/17/2021 04:56 |
| g-BHC | ND | | 0.0050 | 5 | 08/17/2021 04:56 |
| Chlordane (Technical) | **0.92** | P | 0.12 | 5 | 08/17/2021 04:56 |
| a-Chlordane | **0.13** | | 0.0050 | 5 | 08/17/2021 04:56 |
| g-Chlordane | **0.096** | P | 0.0050 | 5 | 08/17/2021 04:56 |
| p,p-DDD | ND | | 0.0050 | 5 | 08/17/2021 04:56 |
| p,p-DDE | ND | | 0.0050 | 5 | 08/17/2021 04:56 |
| p,p-DDT | ND | | 0.0050 | 5 | 08/17/2021 04:56 |
| Dieldrin | ND | | 0.0050 | 5 | 08/17/2021 04:56 |
| Endosulfan I | ND | | 0.0050 | 5 | 08/17/2021 04:56 |
| Endosulfan II | ND | | 0.0050 | 5 | 08/17/2021 04:56 |
| Endosulfan sulfate | ND | | 0.0050 | 5 | 08/17/2021 04:56 |
| Endrin | ND | | 0.0050 | 5 | 08/17/2021 04:56 |
| Endrin aldehyde | ND | | 0.0050 | 5 | 08/17/2021 04:56 |
| Endrin ketone | ND | | 0.0050 | 5 | 08/17/2021 04:56 |
| Heptachlor | ND | | 0.0050 | 5 | 08/17/2021 04:56 |
| Heptachlor epoxide | **0.0076** | | 0.0050 | 5 | 08/17/2021 04:56 |
| Hexachlorobenzene | ND | | 0.050 | 5 | 08/17/2021 04:56 |
| Hexachlorocyclopentadiene | ND | | 0.10 | 5 | 08/17/2021 04:56 |
| Methoxychlor | ND | | 0.0050 | 5 | 08/17/2021 04:56 |
| Toxaphene | ND | | 0.25 | 5 | 08/17/2021 04:56 |
| Aroclor1016 | ND | | 0.25 | 5 | 08/17/2021 04:56 |
| Aroclor1221 | ND | | 0.25 | 5 | 08/17/2021 04:56 |
| Aroclor1232 | ND | | 0.25 | 5 | 08/17/2021 04:56 |
| Aroclor1242 | ND | | 0.25 | 5 | 08/17/2021 04:56 |
| Aroclor1248 | ND | | 0.25 | 5 | 08/17/2021 04:56 |
| Aroclor1254 | ND | | 0.25 | 5 | 08/17/2021 04:56 |
| Aroclor1260 | ND | | 0.25 | 5 | 08/17/2021 04:56 |
| PCBs, total | ND | | 0.25 | 5 | 08/17/2021 04:56 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 92 | 60-130 | 08/17/2021 04:56 |

Analyst(s): CN

Analytical Comments: a2

*(Cont.)*

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW3550B |
| **Date Prepared:** | 08/11/2021 | **Analytical Method:** | SW8081A/8082 |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | mg/kg |

## Organochlorine Pesticides + PCBs

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| SB06-0.5 | 2108589-011A | Soil | 08/09/2021 11:15 | GC40 08162175.d | 227419 |

| Analytes | Result | Qualifiers | RL | DF | Date Analyzed |
|---|---|---|---|---|---|
| Aldrin | ND | | 0.0050 | 5 | 08/17/2021 05:10 |
| a-BHC | ND | | 0.0050 | 5 | 08/17/2021 05:10 |
| b-BHC | ND | | 0.0050 | 5 | 08/17/2021 05:10 |
| d-BHC | ND | | 0.0050 | 5 | 08/17/2021 05:10 |
| g-BHC | ND | | 0.0050 | 5 | 08/17/2021 05:10 |
| Chlordane (Technical) | **0.85** | | 0.12 | 5 | 08/17/2021 05:10 |
| a-Chlordane | **0.10** | P | 0.0050 | 5 | 08/17/2021 05:10 |
| g-Chlordane | **0.075** | P | 0.0050 | 5 | 08/17/2021 05:10 |
| p,p-DDD | ND | | 0.0050 | 5 | 08/17/2021 05:10 |
| p,p-DDE | ND | | 0.0050 | 5 | 08/17/2021 05:10 |
| p,p-DDT | ND | | 0.0050 | 5 | 08/17/2021 05:10 |
| Dieldrin | ND | | 0.0050 | 5 | 08/17/2021 05:10 |
| Endosulfan I | ND | | 0.0050 | 5 | 08/17/2021 05:10 |
| Endosulfan II | ND | | 0.0050 | 5 | 08/17/2021 05:10 |
| Endosulfan sulfate | ND | | 0.0050 | 5 | 08/17/2021 05:10 |
| Endrin | ND | | 0.0050 | 5 | 08/17/2021 05:10 |
| Endrin aldehyde | ND | | 0.0050 | 5 | 08/17/2021 05:10 |
| Endrin ketone | ND | | 0.0050 | 5 | 08/17/2021 05:10 |
| Heptachlor | ND | | 0.0050 | 5 | 08/17/2021 05:10 |
| Heptachlor epoxide | **0.0091** | | 0.0050 | 5 | 08/17/2021 05:10 |
| Hexachlorobenzene | ND | | 0.050 | 5 | 08/17/2021 05:10 |
| Hexachlorocyclopentadiene | ND | | 0.10 | 5 | 08/17/2021 05:10 |
| Methoxychlor | ND | | 0.0050 | 5 | 08/17/2021 05:10 |
| Toxaphene | ND | | 0.25 | 5 | 08/17/2021 05:10 |
| Aroclor1016 | ND | | 0.25 | 5 | 08/17/2021 05:10 |
| Aroclor1221 | ND | | 0.25 | 5 | 08/17/2021 05:10 |
| Aroclor1232 | ND | | 0.25 | 5 | 08/17/2021 05:10 |
| Aroclor1242 | ND | | 0.25 | 5 | 08/17/2021 05:10 |
| Aroclor1248 | ND | | 0.25 | 5 | 08/17/2021 05:10 |
| Aroclor1254 | ND | | 0.25 | 5 | 08/17/2021 05:10 |
| Aroclor1260 | ND | | 0.25 | 5 | 08/17/2021 05:10 |
| PCBs, total | ND | | 0.25 | 5 | 08/17/2021 05:10 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 84 | 60-130 | 08/17/2021 05:10 |

Analyst(s): CN

Analytical Comments: a2

*(Cont.)*

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW3550B |
| **Date Prepared:** | 08/11/2021 | **Analytical Method:** | SW8081A/8082 |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | mg/kg |

## Organochlorine Pesticides + PCBs

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| SB10-0.5 | 2108589-013A | Soil | 08/09/2021 11:45 | GC23 08162119.d | 227419 |

| Analytes | Result | Qualifiers | RL | DF | Date Analyzed |
|---|---|---|---|---|---|
| Aldrin | ND | | 0.010 | 10 | 08/16/2021 16:11 |
| a-BHC | ND | | 0.010 | 10 | 08/16/2021 16:11 |
| b-BHC | ND | | 0.010 | 10 | 08/16/2021 16:11 |
| d-BHC | ND | | 0.010 | 10 | 08/16/2021 16:11 |
| g-BHC | ND | | 0.010 | 10 | 08/16/2021 16:11 |
| Chlordane (Technical) | **0.90** | P | 0.25 | 10 | 08/16/2021 16:11 |
| a-Chlordane | **0.13** | | 0.010 | 10 | 08/16/2021 16:11 |
| g-Chlordane | **0.076** | P | 0.010 | 10 | 08/16/2021 16:11 |
| p,p-DDD | ND | | 0.010 | 10 | 08/16/2021 16:11 |
| p,p-DDE | ND | | 0.010 | 10 | 08/16/2021 16:11 |
| p,p-DDT | ND | | 0.010 | 10 | 08/16/2021 16:11 |
| Dieldrin | ND | | 0.010 | 10 | 08/16/2021 16:11 |
| Endosulfan I | **0.018** | P | 0.010 | 10 | 08/16/2021 16:11 |
| Endosulfan II | ND | | 0.010 | 10 | 08/16/2021 16:11 |
| Endosulfan sulfate | ND | | 0.010 | 10 | 08/16/2021 16:11 |
| Endrin | ND | | 0.010 | 10 | 08/16/2021 16:11 |
| Endrin aldehyde | ND | | 0.010 | 10 | 08/16/2021 16:11 |
| Endrin ketone | ND | | 0.010 | 10 | 08/16/2021 16:11 |
| Heptachlor | ND | | 0.010 | 10 | 08/16/2021 16:11 |
| Heptachlor epoxide | **0.024** | | 0.010 | 10 | 08/16/2021 16:11 |
| Hexachlorobenzene | ND | | 0.10 | 10 | 08/16/2021 16:11 |
| Hexachlorocyclopentadiene | ND | | 0.20 | 10 | 08/16/2021 16:11 |
| Methoxychlor | ND | | 0.010 | 10 | 08/16/2021 16:11 |
| Toxaphene | ND | | 0.50 | 10 | 08/16/2021 16:11 |
| Aroclor1016 | ND | | 0.50 | 10 | 08/16/2021 16:11 |
| Aroclor1221 | ND | | 0.50 | 10 | 08/16/2021 16:11 |
| Aroclor1232 | ND | | 0.50 | 10 | 08/16/2021 16:11 |
| Aroclor1242 | ND | | 0.50 | 10 | 08/16/2021 16:11 |
| Aroclor1248 | ND | | 0.50 | 10 | 08/16/2021 16:11 |
| Aroclor1254 | ND | | 0.50 | 10 | 08/16/2021 16:11 |
| Aroclor1260 | ND | | 0.50 | 10 | 08/16/2021 16:11 |
| PCBs, total | ND | | 0.50 | 10 | 08/16/2021 16:11 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 87 | 60-130 | 08/16/2021 16:11 |

Analyst(s): CN

Analytical Comments: a3

*(Cont.)*

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW3550B |
| **Date Prepared:** | 08/11/2021 | **Analytical Method:** | SW8081A/8082 |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | mg/kg |

## Organochlorine Pesticides + PCBs

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| SB08-0.5 | 2108589-015A | Soil | 08/09/2021 12:15 | GC40 08162176.d | 227419 |

| Analytes | Result | Qualifiers | RL | DF | Date Analyzed |
|---|---|---|---|---|---|
| Aldrin | ND | | 0.0050 | 5 | 08/17/2021 05:24 |
| a-BHC | ND | | 0.0050 | 5 | 08/17/2021 05:24 |
| b-BHC | ND | | 0.0050 | 5 | 08/17/2021 05:24 |
| d-BHC | ND | | 0.0050 | 5 | 08/17/2021 05:24 |
| g-BHC | ND | | 0.0050 | 5 | 08/17/2021 05:24 |
| Chlordane (Technical) | **0.34** | | 0.12 | 5 | 08/17/2021 05:24 |
| a-Chlordane | **0.042** | | 0.0050 | 5 | 08/17/2021 05:24 |
| g-Chlordane | **0.030** | P | 0.0050 | 5 | 08/17/2021 05:24 |
| p,p-DDD | ND | | 0.0050 | 5 | 08/17/2021 05:24 |
| p,p-DDE | ND | | 0.0050 | 5 | 08/17/2021 05:24 |
| p,p-DDT | **0.0051** | | 0.0050 | 5 | 08/17/2021 05:24 |
| Dieldrin | ND | | 0.0050 | 5 | 08/17/2021 05:24 |
| Endosulfan I | ND | | 0.0050 | 5 | 08/17/2021 05:24 |
| Endosulfan II | ND | | 0.0050 | 5 | 08/17/2021 05:24 |
| Endosulfan sulfate | ND | | 0.0050 | 5 | 08/17/2021 05:24 |
| Endrin | ND | | 0.0050 | 5 | 08/17/2021 05:24 |
| Endrin aldehyde | ND | | 0.0050 | 5 | 08/17/2021 05:24 |
| Endrin ketone | ND | | 0.0050 | 5 | 08/17/2021 05:24 |
| Heptachlor | ND | | 0.0050 | 5 | 08/17/2021 05:24 |
| Heptachlor epoxide | **0.0055** | | 0.0050 | 5 | 08/17/2021 05:24 |
| Hexachlorobenzene | ND | | 0.050 | 5 | 08/17/2021 05:24 |
| Hexachlorocyclopentadiene | ND | | 0.10 | 5 | 08/17/2021 05:24 |
| Methoxychlor | ND | | 0.0050 | 5 | 08/17/2021 05:24 |
| Toxaphene | ND | | 0.25 | 5 | 08/17/2021 05:24 |
| Aroclor1016 | ND | | 0.25 | 5 | 08/17/2021 05:24 |
| Aroclor1221 | ND | | 0.25 | 5 | 08/17/2021 05:24 |
| Aroclor1232 | ND | | 0.25 | 5 | 08/17/2021 05:24 |
| Aroclor1242 | ND | | 0.25 | 5 | 08/17/2021 05:24 |
| Aroclor1248 | ND | | 0.25 | 5 | 08/17/2021 05:24 |
| Aroclor1254 | ND | | 0.25 | 5 | 08/17/2021 05:24 |
| Aroclor1260 | ND | | 0.25 | 5 | 08/17/2021 05:24 |
| PCBs, total | ND | | 0.25 | 5 | 08/17/2021 05:24 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 83 | 60-130 | 08/17/2021 05:24 |

Analyst(s): CN

Analytical Comments: a2

*(Cont.)*

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW3550B |
| **Date Prepared:** | 08/11/2021 | **Analytical Method:** | SW8081A/8082 |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | mg/kg |

## Organochlorine Pesticides + PCBs

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| SB07-0.5 | 2108589-017A | Soil | 08/09/2021 12:20 | GC40 08202127.d | 227419 |

| Analytes | Result | Qualifiers | RL | DF | Date Analyzed |
|---|---|---|---|---|---|
| Aldrin | ND | | 0.010 | 10 | 08/20/2021 16:50 |
| a-BHC | ND | | 0.010 | 10 | 08/20/2021 16:50 |
| b-BHC | ND | | 0.010 | 10 | 08/20/2021 16:50 |
| d-BHC | ND | | 0.010 | 10 | 08/20/2021 16:50 |
| g-BHC | ND | | 0.010 | 10 | 08/20/2021 16:50 |
| Chlordane (Technical) | **1.2** | P | 0.25 | 10 | 08/20/2021 16:50 |
| a-Chlordane | **0.18** | | 0.010 | 10 | 08/20/2021 16:50 |
| g-Chlordane | **0.15** | | 0.010 | 10 | 08/20/2021 16:50 |
| p,p-DDD | ND | | 0.010 | 10 | 08/20/2021 16:50 |
| p,p-DDE | ND | | 0.010 | 10 | 08/20/2021 16:50 |
| p,p-DDT | ND | | 0.010 | 10 | 08/20/2021 16:50 |
| Dieldrin | ND | | 0.010 | 10 | 08/20/2021 16:50 |
| Endosulfan I | ND | | 0.010 | 10 | 08/20/2021 16:50 |
| Endosulfan II | ND | | 0.010 | 10 | 08/20/2021 16:50 |
| Endosulfan sulfate | ND | | 0.010 | 10 | 08/20/2021 16:50 |
| Endrin | ND | | 0.010 | 10 | 08/20/2021 16:50 |
| Endrin aldehyde | ND | | 0.010 | 10 | 08/20/2021 16:50 |
| Endrin ketone | ND | | 0.010 | 10 | 08/20/2021 16:50 |
| Heptachlor | ND | | 0.010 | 10 | 08/20/2021 16:50 |
| Heptachlor epoxide | **0.011** | | 0.010 | 10 | 08/20/2021 16:50 |
| Hexachlorobenzene | ND | | 0.10 | 10 | 08/20/2021 16:50 |
| Hexachlorocyclopentadiene | ND | | 0.20 | 10 | 08/20/2021 16:50 |
| Methoxychlor | ND | | 0.010 | 10 | 08/20/2021 16:50 |
| Toxaphene | ND | | 0.50 | 10 | 08/20/2021 16:50 |
| Aroclor1016 | ND | | 0.50 | 10 | 08/20/2021 16:50 |
| Aroclor1221 | ND | | 0.50 | 10 | 08/20/2021 16:50 |
| Aroclor1232 | ND | | 0.50 | 10 | 08/20/2021 16:50 |
| Aroclor1242 | ND | | 0.50 | 10 | 08/20/2021 16:50 |
| Aroclor1248 | ND | | 0.50 | 10 | 08/20/2021 16:50 |
| Aroclor1254 | ND | | 0.50 | 10 | 08/20/2021 16:50 |
| Aroclor1260 | ND | | 0.50 | 10 | 08/20/2021 16:50 |
| PCBs, total | ND | | 0.50 | 10 | 08/20/2021 16:50 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 92 | 60-130 | 08/20/2021 16:50 |

Analyst(s): BRV

Analytical Comments: a2

*(Cont.)*

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW3550B |
| **Date Prepared:** | 08/11/2021 | **Analytical Method:** | SW8081A/8082 |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | mg/kg |

## Organochlorine Pesticides + PCBs

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| SB11-0.5 | 2108589-019A | Soil | 08/09/2021 16:30 | GC40 08162177.d | 227419 |

| Analytes | Result | Qualifiers | RL | DF | Date Analyzed |
|---|---|---|---|---|---|
| Aldrin | ND | | 0.0050 | 5 | 08/17/2021 05:38 |
| a-BHC | ND | | 0.0050 | 5 | 08/17/2021 05:38 |
| b-BHC | ND | | 0.0050 | 5 | 08/17/2021 05:38 |
| d-BHC | ND | | 0.0050 | 5 | 08/17/2021 05:38 |
| g-BHC | ND | | 0.0050 | 5 | 08/17/2021 05:38 |
| Chlordane (Technical) | **0.28** | P | 0.12 | 5 | 08/17/2021 05:38 |
| a-Chlordane | **0.036** | | 0.0050 | 5 | 08/17/2021 05:38 |
| g-Chlordane | **0.018** | P | 0.0050 | 5 | 08/17/2021 05:38 |
| p,p-DDD | ND | | 0.0050 | 5 | 08/17/2021 05:38 |
| p,p-DDE | ND | | 0.0050 | 5 | 08/17/2021 05:38 |
| p,p-DDT | **0.0059** | P | 0.0050 | 5 | 08/17/2021 05:38 |
| Dieldrin | ND | | 0.0050 | 5 | 08/17/2021 05:38 |
| Endosulfan I | ND | | 0.0050 | 5 | 08/17/2021 05:38 |
| Endosulfan II | ND | | 0.0050 | 5 | 08/17/2021 05:38 |
| Endosulfan sulfate | ND | | 0.0050 | 5 | 08/17/2021 05:38 |
| Endrin | ND | | 0.0050 | 5 | 08/17/2021 05:38 |
| Endrin aldehyde | ND | | 0.0050 | 5 | 08/17/2021 05:38 |
| Endrin ketone | ND | | 0.0050 | 5 | 08/17/2021 05:38 |
| Heptachlor | ND | | 0.0050 | 5 | 08/17/2021 05:38 |
| Heptachlor epoxide | **0.012** | | 0.0050 | 5 | 08/17/2021 05:38 |
| Hexachlorobenzene | ND | | 0.050 | 5 | 08/17/2021 05:38 |
| Hexachlorocyclopentadiene | ND | | 0.10 | 5 | 08/17/2021 05:38 |
| Methoxychlor | ND | | 0.0050 | 5 | 08/17/2021 05:38 |
| Toxaphene | ND | | 0.25 | 5 | 08/17/2021 05:38 |
| Aroclor1016 | ND | | 0.25 | 5 | 08/17/2021 05:38 |
| Aroclor1221 | ND | | 0.25 | 5 | 08/17/2021 05:38 |
| Aroclor1232 | ND | | 0.25 | 5 | 08/17/2021 05:38 |
| Aroclor1242 | ND | | 0.25 | 5 | 08/17/2021 05:38 |
| Aroclor1248 | ND | | 0.25 | 5 | 08/17/2021 05:38 |
| Aroclor1254 | ND | | 0.25 | 5 | 08/17/2021 05:38 |
| Aroclor1260 | ND | | 0.25 | 5 | 08/17/2021 05:38 |
| PCBs, total | ND | | 0.25 | 5 | 08/17/2021 05:38 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 85 | 60-130 | 08/17/2021 05:38 |

Analyst(s): CN

Analytical Comments: a2

*(Cont.)*

CA ELAP 1644 • NELAP 4033ORELAP

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW3550B |
| **Date Prepared:** | 08/11/2021 | **Analytical Method:** | SW8081A/8082 |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | mg/kg |

## Organochlorine Pesticides + PCBs

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| SB09-0.5 | 2108589-021A | Soil | 08/09/2021 16:40 | GC40 08162178.d | 227419 |

| Analytes | Result | Qualifiers | RL | DF | Date Analyzed |
|---|---|---|---|---|---|
| Aldrin | ND | | 0.0050 | 5 | 08/17/2021 05:52 |
| a-BHC | ND | | 0.0050 | 5 | 08/17/2021 05:52 |
| b-BHC | ND | | 0.0050 | 5 | 08/17/2021 05:52 |
| d-BHC | ND | | 0.0050 | 5 | 08/17/2021 05:52 |
| g-BHC | ND | | 0.0050 | 5 | 08/17/2021 05:52 |
| Chlordane (Technical) | ND | | 0.12 | 5 | 08/17/2021 05:52 |
| a-Chlordane | **0.019** | | 0.0050 | 5 | 08/17/2021 05:52 |
| g-Chlordane | **0.014** | P | 0.0050 | 5 | 08/17/2021 05:52 |
| p,p-DDD | ND | | 0.0050 | 5 | 08/17/2021 05:52 |
| p,p-DDE | ND | | 0.0050 | 5 | 08/17/2021 05:52 |
| p,p-DDT | ND | | 0.0050 | 5 | 08/17/2021 05:52 |
| Dieldrin | ND | | 0.0050 | 5 | 08/17/2021 05:52 |
| Endosulfan I | ND | | 0.0050 | 5 | 08/17/2021 05:52 |
| Endosulfan II | ND | | 0.0050 | 5 | 08/17/2021 05:52 |
| Endosulfan sulfate | ND | | 0.0050 | 5 | 08/17/2021 05:52 |
| Endrin | ND | | 0.0050 | 5 | 08/17/2021 05:52 |
| Endrin aldehyde | ND | | 0.0050 | 5 | 08/17/2021 05:52 |
| Endrin ketone | ND | | 0.0050 | 5 | 08/17/2021 05:52 |
| Heptachlor | ND | | 0.0050 | 5 | 08/17/2021 05:52 |
| Heptachlor epoxide | ND | | 0.0050 | 5 | 08/17/2021 05:52 |
| Hexachlorobenzene | ND | | 0.050 | 5 | 08/17/2021 05:52 |
| Hexachlorocyclopentadiene | ND | | 0.10 | 5 | 08/17/2021 05:52 |
| Methoxychlor | ND | | 0.0050 | 5 | 08/17/2021 05:52 |
| Toxaphene | ND | | 0.25 | 5 | 08/17/2021 05:52 |
| Aroclor1016 | ND | | 0.25 | 5 | 08/17/2021 05:52 |
| Aroclor1221 | ND | | 0.25 | 5 | 08/17/2021 05:52 |
| Aroclor1232 | ND | | 0.25 | 5 | 08/17/2021 05:52 |
| Aroclor1242 | ND | | 0.25 | 5 | 08/17/2021 05:52 |
| Aroclor1248 | ND | | 0.25 | 5 | 08/17/2021 05:52 |
| Aroclor1254 | ND | | 0.25 | 5 | 08/17/2021 05:52 |
| Aroclor1260 | ND | | 0.25 | 5 | 08/17/2021 05:52 |
| PCBs, total | ND | | 0.25 | 5 | 08/17/2021 05:52 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 71 | 60-130 | 08/17/2021 05:52 |

Analyst(s): CN

Analytical Comments: a2

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW5030B |
| **Date Prepared:** | 08/11/2021 | **Analytical Method:** | SW8260B |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | mg/kg |

## Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| SB01-1.0 | 2108589-001A | Soil | 08/09/2021 09:25 | GC18 08132114.D | 227403 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Acetone | ND | 0.20 | 1 | 08/13/2021 16:05 |
| tert-Amyl methyl ether (TAME) | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Benzene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Bromobenzene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Bromochloromethane | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Bromodichloromethane | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Bromoform | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Bromomethane | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| 2-Butanone (MEK) | ND | 0.050 | 1 | 08/13/2021 16:05 |
| t-Butyl alcohol (TBA) | ND | 0.050 | 1 | 08/13/2021 16:05 |
| n-Butyl benzene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| sec-Butyl benzene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| tert-Butyl benzene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Carbon Disulfide | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Carbon Tetrachloride | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Chlorobenzene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Chloroethane | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Chloroform | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Chloromethane | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| 2-Chlorotoluene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| 4-Chlorotoluene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Dibromochloromethane | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| 1,2-Dibromo-3-chloropropane | ND | 0.00050 | 1 | 08/13/2021 16:05 |
| 1,2-Dibromoethane (EDB) | ND | 0.00025 | 1 | 08/13/2021 16:05 |
| Dibromomethane | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| 1,2-Dichlorobenzene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| 1,3-Dichlorobenzene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| 1,4-Dichlorobenzene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Dichlorodifluoromethane | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| 1,1-Dichloroethane | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.00010 | 1 | 08/13/2021 16:05 |
| 1,1-Dichloroethene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| cis-1,2-Dichloroethene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| trans-1,2-Dichloroethene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| 1,2-Dichloropropane | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| 1,3-Dichloropropane | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| 2,2-Dichloropropane | ND | 0.0050 | 1 | 08/13/2021 16:05 |

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW5030B |
| **Date Prepared:** | 08/11/2021 | **Analytical Method:** | SW8260B |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | mg/kg |

## Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| SB01-1.0 | 2108589-001A | Soil | 08/09/2021 09:25 | GC18 08132114.D | 227403 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| 1,1-Dichloropropene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| cis-1,3-Dichloropropene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| trans-1,3-Dichloropropene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Diisopropyl ether (DIPE) | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Ethylbenzene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Freon 113 | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Hexachlorobutadiene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Hexachloroethane | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| 2-Hexanone | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Isopropylbenzene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| 4-Isopropyl toluene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Methyl-t-butyl ether (MTBE) | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Methylene chloride | ND | 0.020 | 1 | 08/13/2021 16:05 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Naphthalene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| n-Propyl benzene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Styrene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Tetrachloroethene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Toluene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| 1,2,3-Trichlorobenzene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| 1,2,4-Trichlorobenzene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| 1,1,1-Trichloroethane | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| 1,1,2-Trichloroethane | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Trichloroethene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Trichlorofluoromethane | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| 1,2,3-Trichloropropane | ND | 0.00025 | 1 | 08/13/2021 16:05 |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Vinyl Chloride | ND | 0.00025 | 1 | 08/13/2021 16:05 |
| m,p-Xylene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| o-Xylene | ND | 0.0050 | 1 | 08/13/2021 16:05 |
| Xylenes, Total | ND | 0.0050 | 1 | 08/13/2021 16:05 |

*(Cont.)*

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW5030B |
| **Date Prepared:** | 08/11/2021 | **Analytical Method:** | SW8260B |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | mg/kg |

## Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| SB01-1.0 | 2108589-001A | Soil | 08/09/2021 09:25 | GC18 08132114.D | 227403 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| **Surrogates** | **REC (%)** | **Limits** | | |
| Dibromofluoromethane | 88 | 70-140 | | 08/13/2021 16:05 |
| Toluene-d8 | 100 | 70-140 | | 08/13/2021 16:05 |
| 4-BFB | 89 | 70-140 | | 08/13/2021 16:05 |
| Benzene-d6 | 87 | 50-140 | | 08/13/2021 16:05 |
| Ethylbenzene-d10 | 94 | 50-140 | | 08/13/2021 16:05 |
| 1,2-DCB-d4 | 73 | 40-140 | | 08/13/2021 16:05 |

Analyst(s): LT

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW5030B |
| **Date Prepared:** | 08/18/2021 | **Analytical Method:** | SW8260B |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | µg/L |

## Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| IW-01-20210810 | 2108589-023B | Water | 08/10/2021 12:25 | GC38 08182111.D | 227837 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Acetone | **450** | 80 | 2 | 08/18/2021 15:39 |
| tert-Amyl methyl ether (TAME) | ND | 1.0 | 2 | 08/18/2021 15:39 |
| Benzene | ND | 0.40 | 2 | 08/18/2021 15:39 |
| Bromobenzene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| Bromochloromethane | ND | 1.0 | 2 | 08/18/2021 15:39 |
| Bromodichloromethane | ND | 0.10 | 2 | 08/18/2021 15:39 |
| Bromoform | ND | 1.0 | 2 | 08/18/2021 15:39 |
| Bromomethane | ND | 1.0 | 2 | 08/18/2021 15:39 |
| 2-Butanone (MEK) | ND | 10 | 2 | 08/18/2021 15:39 |
| t-Butyl alcohol (TBA) | ND | 10 | 2 | 08/18/2021 15:39 |
| n-Butyl benzene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| sec-Butyl benzene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| tert-Butyl benzene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| Carbon Disulfide | ND | 1.0 | 2 | 08/18/2021 15:39 |
| Carbon Tetrachloride | ND | 0.10 | 2 | 08/18/2021 15:39 |
| Chlorobenzene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| Chloroethane | ND | 1.0 | 2 | 08/18/2021 15:39 |
| Chloroform | ND | 0.20 | 2 | 08/18/2021 15:39 |
| Chloromethane | ND | 1.0 | 2 | 08/18/2021 15:39 |
| 2-Chlorotoluene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| 4-Chlorotoluene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| Dibromochloromethane | ND | 0.30 | 2 | 08/18/2021 15:39 |
| 1,2-Dibromo-3-chloropropane | ND | 0.040 | 2 | 08/18/2021 15:39 |
| 1,2-Dibromoethane (EDB) | ND | 0.080 | 2 | 08/18/2021 15:39 |
| Dibromomethane | ND | 1.0 | 2 | 08/18/2021 15:39 |
| 1,2-Dichlorobenzene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| 1,3-Dichlorobenzene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| 1,4-Dichlorobenzene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| Dichlorodifluoromethane | ND | 1.0 | 2 | 08/18/2021 15:39 |
| 1,1-Dichloroethane | ND | 1.0 | 2 | 08/18/2021 15:39 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.040 | 2 | 08/18/2021 15:39 |
| 1,1-Dichloroethene | ND | 0.020 | 2 | 08/18/2021 15:39 |
| cis-1,2-Dichloroethene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| trans-1,2-Dichloroethene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| 1,2-Dichloropropane | ND | 0.40 | 2 | 08/18/2021 15:39 |
| 1,3-Dichloropropane | ND | 1.0 | 2 | 08/18/2021 15:39 |
| 2,2-Dichloropropane | ND | 1.0 | 2 | 08/18/2021 15:39 |

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW5030B |
| **Date Prepared:** | 08/18/2021 | **Analytical Method:** | SW8260B |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | µg/L |

## Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| IW-01-20210810 | 2108589-023B | Water | 08/10/2021 12:25 | GC38 08182111.D | 227837 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| 1,1-Dichloropropene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| cis-1,3-Dichloropropene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| trans-1,3-Dichloropropene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| Diisopropyl ether (DIPE) | ND | 1.0 | 2 | 08/18/2021 15:39 |
| Ethylbenzene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| Ethyl tert-butyl ether (ETBE) | ND | 1.0 | 2 | 08/18/2021 15:39 |
| Freon 113 | ND | 1.0 | 2 | 08/18/2021 15:39 |
| Hexachlorobutadiene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| Hexachloroethane | ND | 0.40 | 2 | 08/18/2021 15:39 |
| 2-Hexanone | ND | 1.0 | 2 | 08/18/2021 15:39 |
| Isopropylbenzene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| 4-Isopropyl toluene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| Methyl-t-butyl ether (MTBE) | ND | 1.0 | 2 | 08/18/2021 15:39 |
| Methylene chloride | ND | 4.0 | 2 | 08/18/2021 15:39 |
| 4-Methyl-2-pentanone (MIBK) | ND | 1.0 | 2 | 08/18/2021 15:39 |
| Naphthalene | ND | 0.60 | 2 | 08/18/2021 15:39 |
| n-Propyl benzene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| Styrene | ND | 4.0 | 2 | 08/18/2021 15:39 |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | 2 | 08/18/2021 15:39 |
| 1,1,2,2-Tetrachloroethane | ND | 0.040 | 2 | 08/18/2021 15:39 |
| Tetrachloroethene | ND | 0.40 | 2 | 08/18/2021 15:39 |
| Toluene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| 1,1,1-Trichloroethane | ND | 1.0 | 2 | 08/18/2021 15:39 |
| 1,1,2-Trichloroethane | ND | 0.40 | 2 | 08/18/2021 15:39 |
| Trichloroethene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| Trichlorofluoromethane | ND | 1.0 | 2 | 08/18/2021 15:39 |
| 1,2,3-Trichloropropane | ND | 0.010 | 2 | 08/18/2021 15:39 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| Vinyl Chloride | ND | 0.010 | 2 | 08/18/2021 15:39 |
| m,p-Xylene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| o-Xylene | ND | 1.0 | 2 | 08/18/2021 15:39 |
| Xylenes, Total | ND | 1.0 | 2 | 08/18/2021 15:39 |

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW5030B |
| **Date Prepared:** | 08/18/2021 | **Analytical Method:** | SW8260B |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | µg/L |

## Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| IW-01-20210810 | 2108589-023B | Water | 08/10/2021 12:25 | GC38 08182111.D | 227837 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| **Surrogates** | **REC (%)** | **Limits** | | |
| Dibromofluoromethane | 112 | 70-130 | | 08/18/2021 15:39 |
| Toluene-d8 | 101 | 70-130 | | 08/18/2021 15:39 |
| 4-BFB | 103 | 70-130 | | 08/18/2021 15:39 |

Analyst(s): TW  Analytical Comments: b1

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW3050B |
| **Date Prepared:** | 08/12/2021 | **Analytical Method:** | SW6020 |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | mg/Kg |

## CAM / CCR 17 Metals

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| SB02-0.5 | 2108589-003A | Soil | 08/09/2021 09:40 | ICP-MS4 137SMPL.d | 227536 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Antimony | ND | 0.50 | 1 | 08/13/2021 12:07 |
| Arsenic | **1.4** | 0.50 | 1 | 08/13/2021 12:07 |
| Barium | **44** | 5.0 | 1 | 08/13/2021 12:07 |
| Beryllium | ND | 0.50 | 1 | 08/13/2021 12:07 |
| Cadmium | ND | 0.50 | 1 | 08/13/2021 12:07 |
| Chromium | **8.4** | 0.50 | 1 | 08/13/2021 12:07 |
| Cobalt | **1.7** | 0.50 | 1 | 08/13/2021 12:07 |
| Copper | **3.9** | 0.50 | 1 | 08/13/2021 12:07 |
| Lead | **3.7** | 0.50 | 1 | 08/13/2021 12:07 |
| Mercury | **0.23** | 0.050 | 1 | 08/13/2021 12:07 |
| Molybdenum | **0.51** | 0.50 | 1 | 08/13/2021 12:07 |
| Nickel | **7.0** | 0.50 | 1 | 08/13/2021 12:07 |
| Selenium | **0.52** | 0.50 | 1 | 08/13/2021 12:07 |
| Silver | ND | 0.50 | 1 | 08/13/2021 12:07 |
| Thallium | ND | 0.50 | 1 | 08/13/2021 12:07 |
| Vanadium | **7.6** | 0.50 | 1 | 08/13/2021 12:07 |
| Zinc | **59** | 5.0 | 1 | 08/13/2021 12:07 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Terbium | 106 | 70-130 | 08/13/2021 12:07 |

Analyst(s): WV

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW3050B |
| **Date Prepared:** | 08/12/2021 | **Analytical Method:** | SW6020 |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | mg/Kg |

## CAM / CCR 17 Metals

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| SB03-0.5 | 2108589-005A | Soil | 08/09/2021 09:58 | ICP-MS4 138SMPL.d | 227536 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Antimony | ND | 0.50 | 1 | 08/13/2021 12:11 |
| Arsenic | **1.3** | 0.50 | 1 | 08/13/2021 12:11 |
| Barium | **22** | 5.0 | 1 | 08/13/2021 12:11 |
| Beryllium | ND | 0.50 | 1 | 08/13/2021 12:11 |
| Cadmium | ND | 0.50 | 1 | 08/13/2021 12:11 |
| Chromium | **8.4** | 0.50 | 1 | 08/13/2021 12:11 |
| Cobalt | **0.77** | 0.50 | 1 | 08/13/2021 12:11 |
| Copper | **3.0** | 0.50 | 1 | 08/13/2021 12:11 |
| Lead | **2.2** | 0.50 | 1 | 08/13/2021 12:11 |
| Mercury | **0.37** | 0.050 | 1 | 08/13/2021 12:11 |
| Molybdenum | ND | 0.50 | 1 | 08/13/2021 12:11 |
| Nickel | **3.9** | 0.50 | 1 | 08/13/2021 12:11 |
| Selenium | **0.52** | 0.50 | 1 | 08/13/2021 12:11 |
| Silver | ND | 0.50 | 1 | 08/13/2021 12:11 |
| Thallium | ND | 0.50 | 1 | 08/13/2021 12:11 |
| Vanadium | **7.4** | 0.50 | 1 | 08/13/2021 12:11 |
| Zinc | **14** | 5.0 | 1 | 08/13/2021 12:11 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Terbium | 106 | 70-130 | 08/13/2021 12:11 |

Analyst(s): WV

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW3050B |
| **Date Prepared:** | 08/12/2021 | **Analytical Method:** | SW6020 |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | mg/Kg |

## CAM / CCR 17 Metals

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| SB04-0.5 | 2108589-007A | Soil | 08/09/2021 10:10 | ICP-MS5 109SMPL.d | 227536 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Antimony | ND | 0.50 | 1 | 08/13/2021 10:14 |
| Arsenic | **1.4** | 0.50 | 1 | 08/13/2021 10:14 |
| Barium | **29** | 5.0 | 1 | 08/13/2021 10:14 |
| Beryllium | ND | 0.50 | 1 | 08/13/2021 10:14 |
| Cadmium | ND | 0.50 | 1 | 08/13/2021 10:14 |
| Chromium | **8.6** | 0.50 | 1 | 08/13/2021 10:14 |
| Cobalt | **0.89** | 0.50 | 1 | 08/13/2021 10:14 |
| Copper | **4.1** | 0.50 | 1 | 08/13/2021 10:14 |
| Lead | **3.1** | 0.50 | 1 | 08/13/2021 10:14 |
| Mercury | **0.95** | 0.050 | 1 | 08/13/2021 10:14 |
| Molybdenum | ND | 0.50 | 1 | 08/13/2021 10:14 |
| Nickel | **4.9** | 0.50 | 1 | 08/13/2021 10:14 |
| Selenium | **0.54** | 0.50 | 1 | 08/13/2021 10:14 |
| Silver | ND | 0.50 | 1 | 08/13/2021 10:14 |
| Thallium | ND | 0.50 | 1 | 08/13/2021 10:14 |
| Vanadium | **7.4** | 0.50 | 1 | 08/13/2021 10:14 |
| Zinc | **18** | 5.0 | 1 | 08/13/2021 10:14 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Terbium | 102 | 70-130 | 08/13/2021 10:14 |

Analyst(s): WV

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW3050B |
| **Date Prepared:** | 08/12/2021 | **Analytical Method:** | SW6020 |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | mg/Kg |

## CAM / CCR 17 Metals

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| SB05-0.5 | 2108589-009A | Soil | 08/09/2021 10:30 | ICP-MS5 104SMPL.d | 227443 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Antimony | ND | 0.50 | 1 | 08/12/2021 09:37 |
| Arsenic | **0.90** | 0.50 | 1 | 08/12/2021 09:37 |
| Barium | **23** | 5.0 | 1 | 08/12/2021 09:37 |
| Beryllium | ND | 0.50 | 1 | 08/12/2021 09:37 |
| Cadmium | ND | 0.50 | 1 | 08/12/2021 09:37 |
| Chromium | **6.0** | 0.50 | 1 | 08/12/2021 09:37 |
| Cobalt | ND | 0.50 | 1 | 08/12/2021 09:37 |
| Copper | **2.8** | 0.50 | 1 | 08/12/2021 09:37 |
| Lead | **2.5** | 0.50 | 1 | 08/12/2021 09:37 |
| Mercury | **0.19** | 0.050 | 1 | 08/12/2021 09:37 |
| Molybdenum | ND | 0.50 | 1 | 08/12/2021 09:37 |
| Nickel | **3.0** | 0.50 | 1 | 08/12/2021 09:37 |
| Selenium | **0.61** | 0.50 | 1 | 08/12/2021 09:37 |
| Silver | ND | 0.50 | 1 | 08/12/2021 09:37 |
| Thallium | ND | 0.50 | 1 | 08/12/2021 09:37 |
| Vanadium | **4.9** | 0.50 | 1 | 08/12/2021 09:37 |
| Zinc | **14** | 5.0 | 1 | 08/12/2021 09:37 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Terbium | 103 | 70-130 | 08/12/2021 09:37 |

Analyst(s): WV

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW3050B |
| **Date Prepared:** | 08/12/2021 | **Analytical Method:** | SW6020 |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | mg/Kg |

## CAM / CCR 17 Metals

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| SB06-0.5 | 2108589-011A | Soil | 08/09/2021 11:15 | ICP-MS5 153SMPL.d | 227443 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Antimony | ND | 0.50 | 1 | 08/13/2021 12:45 |
| Arsenic | **1.4** | 0.50 | 1 | 08/13/2021 12:45 |
| Barium | **19** | 5.0 | 1 | 08/13/2021 12:45 |
| Beryllium | ND | 0.50 | 1 | 08/13/2021 12:45 |
| Cadmium | ND | 0.50 | 1 | 08/13/2021 12:45 |
| Chromium | **7.9** | 0.50 | 1 | 08/13/2021 12:45 |
| Cobalt | **0.65** | 0.50 | 1 | 08/13/2021 12:45 |
| Copper | **3.2** | 0.50 | 1 | 08/13/2021 12:45 |
| Lead | **2.0** | 0.50 | 1 | 08/13/2021 12:45 |
| Mercury | **0.24** | 0.050 | 1 | 08/13/2021 12:45 |
| Molybdenum | ND | 0.50 | 1 | 08/13/2021 12:45 |
| Nickel | **3.8** | 0.50 | 1 | 08/13/2021 12:45 |
| Selenium | **0.56** | 0.50 | 1 | 08/13/2021 12:45 |
| Silver | ND | 0.50 | 1 | 08/13/2021 12:45 |
| Thallium | ND | 0.50 | 1 | 08/13/2021 12:45 |
| Vanadium | **6.9** | 0.50 | 1 | 08/13/2021 12:45 |
| Zinc | **16** | 5.0 | 1 | 08/13/2021 12:45 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Terbium | 109 | 70-130 | 08/13/2021 12:45 |

Analyst(s): AL

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW3050B |
| **Date Prepared:** | 08/12/2021 | **Analytical Method:** | SW6020 |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | mg/Kg |

## CAM / CCR 17 Metals

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| SB10-0.5 | 2108589-013A | Soil | 08/09/2021 11:45 | ICP-MS5 154SMPL.d | 227443 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Antimony | ND | 0.50 | 1 | 08/13/2021 12:48 |
| Arsenic | **0.91** | 0.50 | 1 | 08/13/2021 12:48 |
| Barium | **37** | 5.0 | 1 | 08/13/2021 12:48 |
| Beryllium | ND | 0.50 | 1 | 08/13/2021 12:48 |
| Cadmium | ND | 0.50 | 1 | 08/13/2021 12:48 |
| Chromium | **6.4** | 0.50 | 1 | 08/13/2021 12:48 |
| Cobalt | ND | 0.50 | 1 | 08/13/2021 12:48 |
| Copper | **3.1** | 0.50 | 1 | 08/13/2021 12:48 |
| Lead | **4.4** | 0.50 | 1 | 08/13/2021 12:48 |
| Mercury | **0.30** | 0.050 | 1 | 08/13/2021 12:48 |
| Molybdenum | ND | 0.50 | 1 | 08/13/2021 12:48 |
| Nickel | **3.3** | 0.50 | 1 | 08/13/2021 12:48 |
| Selenium | ND | 0.50 | 1 | 08/13/2021 12:48 |
| Silver | ND | 0.50 | 1 | 08/13/2021 12:48 |
| Thallium | ND | 0.50 | 1 | 08/13/2021 12:48 |
| Vanadium | **4.4** | 0.50 | 1 | 08/13/2021 12:48 |
| Zinc | **20** | 5.0 | 1 | 08/13/2021 12:48 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Terbium | 79 | 70-130 | 08/13/2021 12:48 |

Analyst(s): AL

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW3050B |
| **Date Prepared:** | 08/12/2021 | **Analytical Method:** | SW6020 |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | mg/Kg |

## CAM / CCR 17 Metals

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| SB08-0.5 | 2108589-015A | Soil | 08/09/2021 12:15 | ICP-MS5 157SMPL.d | 227443 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Antimony | ND | 0.50 | 1 | 08/13/2021 12:58 |
| Arsenic | **0.75** | 0.50 | 1 | 08/13/2021 12:58 |
| Barium | **17** | 5.0 | 1 | 08/13/2021 12:58 |
| Beryllium | ND | 0.50 | 1 | 08/13/2021 12:58 |
| Cadmium | ND | 0.50 | 1 | 08/13/2021 12:58 |
| Chromium | **6.8** | 0.50 | 1 | 08/13/2021 12:58 |
| Cobalt | **0.51** | 0.50 | 1 | 08/13/2021 12:58 |
| Copper | **2.9** | 0.50 | 1 | 08/13/2021 12:58 |
| Lead | **2.6** | 0.50 | 1 | 08/13/2021 12:58 |
| Mercury | **0.089** | 0.050 | 1 | 08/13/2021 12:58 |
| Molybdenum | ND | 0.50 | 1 | 08/13/2021 12:58 |
| Nickel | **2.4** | 0.50 | 1 | 08/13/2021 12:58 |
| Selenium | ND | 0.50 | 1 | 08/13/2021 12:58 |
| Silver | ND | 0.50 | 1 | 08/13/2021 12:58 |
| Thallium | ND | 0.50 | 1 | 08/13/2021 12:58 |
| Vanadium | **5.1** | 0.50 | 1 | 08/13/2021 12:58 |
| Zinc | **14** | 5.0 | 1 | 08/13/2021 12:58 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Terbium | 105 | 70-130 | 08/13/2021 12:58 |

Analyst(s): AL

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW3050B |
| **Date Prepared:** | 08/12/2021 | **Analytical Method:** | SW6020 |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | mg/Kg |

## CAM / CCR 17 Metals

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| SB07-0.5 | 2108589-017A | Soil | 08/09/2021 12:20 | ICP-MS5 158SMPL.d | 227443 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Antimony | ND | 0.50 | 1 | 08/13/2021 13:02 |
| Arsenic | **1.1** | 0.50 | 1 | 08/13/2021 13:02 |
| Barium | **20** | 5.0 | 1 | 08/13/2021 13:02 |
| Beryllium | ND | 0.50 | 1 | 08/13/2021 13:02 |
| Cadmium | ND | 0.50 | 1 | 08/13/2021 13:02 |
| Chromium | **8.7** | 0.50 | 1 | 08/13/2021 13:02 |
| Cobalt | **0.52** | 0.50 | 1 | 08/13/2021 13:02 |
| Copper | **4.0** | 0.50 | 1 | 08/13/2021 13:02 |
| Lead | **2.6** | 0.50 | 1 | 08/13/2021 13:02 |
| Mercury | **0.57** | 0.050 | 1 | 08/13/2021 13:02 |
| Molybdenum | **0.54** | 0.50 | 1 | 08/13/2021 13:02 |
| Nickel | **2.8** | 0.50 | 1 | 08/13/2021 13:02 |
| Selenium | ND | 0.50 | 1 | 08/13/2021 13:02 |
| Silver | ND | 0.50 | 1 | 08/13/2021 13:02 |
| Thallium | ND | 0.50 | 1 | 08/13/2021 13:02 |
| Vanadium | **5.3** | 0.50 | 1 | 08/13/2021 13:02 |
| Zinc | **21** | 5.0 | 1 | 08/13/2021 13:02 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Terbium | 113 | 70-130 | 08/13/2021 13:02 |

Analyst(s): AL

*(Cont.)*

CA ELAP 1644 • NELAP 4033ORELAP

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW3050B |
| **Date Prepared:** | 08/12/2021 | **Analytical Method:** | SW6020 |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | mg/Kg |

## CAM / CCR 17 Metals

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| SB11-0.5 | 2108589-019A | Soil | 08/09/2021 16:30 | ICP-MS5 159SMPL.d | 227443 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Antimony | ND | 0.50 | 1 | 08/13/2021 13:05 |
| Arsenic | **1.5** | 0.50 | 1 | 08/13/2021 13:05 |
| Barium | **41** | 5.0 | 1 | 08/13/2021 13:05 |
| Beryllium | ND | 0.50 | 1 | 08/13/2021 13:05 |
| Cadmium | ND | 0.50 | 1 | 08/13/2021 13:05 |
| Chromium | **9.1** | 0.50 | 1 | 08/13/2021 13:05 |
| Cobalt | **0.74** | 0.50 | 1 | 08/13/2021 13:05 |
| Copper | **3.1** | 0.50 | 1 | 08/13/2021 13:05 |
| Lead | **3.9** | 0.50 | 1 | 08/13/2021 13:05 |
| Mercury | **0.068** | 0.050 | 1 | 08/13/2021 13:05 |
| Molybdenum | ND | 0.50 | 1 | 08/13/2021 13:05 |
| Nickel | **3.9** | 0.50 | 1 | 08/13/2021 13:05 |
| Selenium | **0.51** | 0.50 | 1 | 08/13/2021 13:05 |
| Silver | ND | 0.50 | 1 | 08/13/2021 13:05 |
| Thallium | ND | 0.50 | 1 | 08/13/2021 13:05 |
| Vanadium | **7.8** | 0.50 | 1 | 08/13/2021 13:05 |
| Zinc | **14** | 5.0 | 1 | 08/13/2021 13:05 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Terbium | 108 | 70-130 | 08/13/2021 13:05 |

Analyst(s): AL

*(Cont.)*

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW3050B |
| **Date Prepared:** | 08/12/2021 | **Analytical Method:** | SW6020 |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | mg/Kg |

## CAM / CCR 17 Metals

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| SB09-0.5 | 2108589-021A | Soil | 08/09/2021 16:40 | ICP-MS5 160SMPL.d | 227443 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Antimony | ND | 0.50 | 1 | 08/13/2021 13:08 |
| Arsenic | **0.80** | 0.50 | 1 | 08/13/2021 13:08 |
| Barium | **25** | 5.0 | 1 | 08/13/2021 13:08 |
| Beryllium | ND | 0.50 | 1 | 08/13/2021 13:08 |
| Cadmium | ND | 0.50 | 1 | 08/13/2021 13:08 |
| Chromium | **5.3** | 0.50 | 1 | 08/13/2021 13:08 |
| Cobalt | ND | 0.50 | 1 | 08/13/2021 13:08 |
| Copper | **1.2** | 0.50 | 1 | 08/13/2021 13:08 |
| Lead | **2.3** | 0.50 | 1 | 08/13/2021 13:08 |
| Mercury | ND | 0.050 | 1 | 08/13/2021 13:08 |
| Molybdenum | ND | 0.50 | 1 | 08/13/2021 13:08 |
| Nickel | **1.6** | 0.50 | 1 | 08/13/2021 13:08 |
| Selenium | ND | 0.50 | 1 | 08/13/2021 13:08 |
| Silver | ND | 0.50 | 1 | 08/13/2021 13:08 |
| Thallium | ND | 0.50 | 1 | 08/13/2021 13:08 |
| Vanadium | **4.1** | 0.50 | 1 | 08/13/2021 13:08 |
| Zinc | **5.0** | 5.0 | 1 | 08/13/2021 13:08 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Terbium | 110 | 70-130 | 08/13/2021 13:08 |

Analyst(s): AL

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW5035 |
| **Date Prepared:** | 08/11/2021 | **Analytical Method:** | SW8021B/8015Bm |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | mg/Kg |

## Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| **SB01-1.0** | **2108589-001A** | **Soil** | **08/09/2021 09:25** | **GC3 08122140.D** | **227441** |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| TPH(g) (C6-C12) | ND | 1.0 | 1 | 08/13/2021 06:18 |
| MTBE | --- | 0.050 | 1 | 08/13/2021 06:18 |
| Benzene | --- | 0.0050 | 1 | 08/13/2021 06:18 |
| Toluene | --- | 0.0050 | 1 | 08/13/2021 06:18 |
| Ethylbenzene | --- | 0.0050 | 1 | 08/13/2021 06:18 |
| m,p-Xylene | --- | 0.010 | 1 | 08/13/2021 06:18 |
| o-Xylene | --- | 0.0050 | 1 | 08/13/2021 06:18 |
| Xylenes | --- | 0.0050 | 1 | 08/13/2021 06:18 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| 2-Fluorotoluene | 90 | 62-126 | 08/13/2021 06:18 |

Analyst(s): TD

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW5030B |
| **Date Prepared:** | 08/12/2021 | **Analytical Method:** | SW8021B/8015Bm |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | µg/L |

## Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| IW-01-20210810 | 2108589-023A | Water | 08/10/2021 12:25 | GC12 08122110.D | 227596 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| TPH(g) (C6-C12) | ND | 50 | 1 | 08/12/2021 14:28 |
| MTBE | --- | 1.0 | 1 | 08/12/2021 14:28 |
| Benzene | --- | 0.50 | 1 | 08/12/2021 14:28 |
| Toluene | --- | 0.50 | 1 | 08/12/2021 14:28 |
| Ethylbenzene | --- | 0.50 | 1 | 08/12/2021 14:28 |
| m,p-Xylene | --- | 1.0 | 1 | 08/12/2021 14:28 |
| o-Xylene | --- | 0.50 | 1 | 08/12/2021 14:28 |
| Xylenes | --- | 0.50 | 1 | 08/12/2021 14:28 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| aaa-TFT | 92 | 76-115 | 08/12/2021 14:28 |

Analyst(s): TD  Analytical Comments: b1

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW3550B |
| **Date Prepared:** | 08/11/2021 | **Analytical Method:** | SW8015B |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | mg/Kg |

## Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| **SB01-1.0** | **2108589-001A** | **Soil** | **08/09/2021 09:25** | **GC39A 08132134.D** | **227440** |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| TPH-Diesel (C10-C23) | ND | 1.0 | 1 | 08/14/2021 02:46 |
| TPH-Motor Oil (C18-C36) | **14** | 5.0 | 1 | 08/14/2021 02:46 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| C9 | 80 | 70-130 | 08/14/2021 02:46 |

Analyst(s): JIS  Analytical Comments: e7

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW3510C |
| **Date Prepared:** | 08/11/2021 | **Analytical Method:** | SW8015B |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | µg/L |

## Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| IW-01-20210810 | 2108589-023A | Water | 08/10/2021 12:25 | GC9b 08162149.D | 227426 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| TPH-Diesel (C10-C23) | ND | 50 | 1 | 08/17/2021 02:38 |
| TPH-Motor Oil (C18-C36) | ND | 250 | 1 | 08/17/2021 02:38 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| C9 | 83 | 70-130 | 08/17/2021 02:38 |

Analyst(s): JIS  Analytical Comments: b1

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Prepared:** | 08/11/2021 | **BatchID:** | 227419 |
| **Date Analyzed:** | 08/12/2021 | **Extraction Method:** | SW3550B |
| **Instrument:** | GC22, GC23 | **Analytical Method:** | SW8081A/8082 |
| **Matrix:** | Soil | **Unit:** | mg/kg |
| **Project:** | 1690021780; Valley Gardens | **Sample ID:** | MB/LCS/LCSD-227419 |

## QC Summary Report for SW8081A/8082

| Analyte | MB Result | MDL | RL | SPK Val | MB SS %REC | MB SS Limits |
|---|---|---|---|---|---|---|
| Aldrin | ND | 0.000120 | 0.00100 | - | - | - |
| a-BHC | ND | 0.000270 | 0.00100 | - | - | - |
| b-BHC | ND | 0.0000920 | 0.00100 | - | - | - |
| d-BHC | ND | 0.000150 | 0.00100 | - | - | - |
| g-BHC | ND | 0.000140 | 0.00100 | - | - | - |
| Chlordane (Technical) | ND | 0.00250 | 0.0250 | - | - | - |
| a-Chlordane | ND | 0.000120 | 0.00100 | - | - | - |
| g-Chlordane | ND | 0.0000990 | 0.00100 | - | - | - |
| p,p-DDD | ND | 0.000150 | 0.00100 | - | - | - |
| p,p-DDE | ND | 0.000140 | 0.00100 | - | - | - |
| p,p-DDT | ND | 0.000200 | 0.00100 | - | - | - |
| Dieldrin | ND | 0.000120 | 0.00100 | - | - | - |
| Endosulfan I | ND | 0.000130 | 0.00100 | - | - | - |
| Endosulfan II | ND | 0.000130 | 0.00100 | - | - | - |
| Endosulfan sulfate | ND | 0.000130 | 0.00100 | - | - | - |
| Endrin | ND | 0.000100 | 0.00100 | - | - | - |
| Endrin aldehyde | ND | 0.000110 | 0.00100 | - | - | - |
| Endrin ketone | ND | 0.000140 | 0.00100 | - | - | - |
| Heptachlor | ND | 0.000170 | 0.00100 | - | - | - |
| Heptachlor epoxide | ND | 0.000110 | 0.00100 | - | - | - |
| Hexachlorobenzene | ND | 0.000290 | 0.0100 | - | - | - |
| Hexachlorocyclopentadiene | ND | 0.000360 | 0.0200 | - | - | - |
| Methoxychlor | ND | 0.000310 | 0.00100 | - | - | - |
| Toxaphene | ND | 0.0120 | 0.0500 | - | - | - |
| Aroclor1016 | ND | 0.00810 | 0.0500 | - | - | - |
| Aroclor1221 | ND | 0.00810 | 0.0500 | - | - | - |
| Aroclor1232 | ND | 0.00810 | 0.0500 | - | - | - |
| Aroclor1242 | ND | 0.00810 | 0.0500 | - | - | - |
| Aroclor1248 | ND | 0.00810 | 0.0500 | - | - | - |
| Aroclor1254 | ND | 0.00810 | 0.0500 | - | - | - |
| Aroclor1260 | ND | 0.00810 | 0.0500 | - | - | - |
| **Surrogate Recovery** | | | | | | |
| Decachlorobiphenyl | 0.0435 | | | 0.05 | 87 | 70-130 |

*(Cont.)*

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Prepared:** | 08/11/2021 | **BatchID:** | 227419 |
| **Date Analyzed:** | 08/12/2021 | **Extraction Method:** | SW3550B |
| **Instrument:** | GC22, GC23 | **Analytical Method:** | SW8081A/8082 |
| **Matrix:** | Soil | **Unit:** | mg/kg |
| **Project:** | 1690021780; Valley Gardens | **Sample ID:** | MB/LCS/LCSD-227419 |

## QC Summary Report for SW8081A/8082

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.0439 | 0.0430 | 0.050 | 88 | 86 | 70-130 | 2.09 | 20 |
| a-BHC | 0.0441 | 0.0432 | 0.050 | 88 | 86 | 70-130 | 2.12 | 20 |
| b-BHC | 0.0502 | 0.0489 | 0.050 | 100 | 98 | 70-130 | 2.54 | 20 |
| d-BHC | 0.0501 | 0.0487 | 0.050 | 100 | 97 | 70-130 | 2.92 | 20 |
| g-BHC | 0.0453 | 0.0443 | 0.050 | 91 | 89 | 70-130 | 2.23 | 20 |
| a-Chlordane | 0.0472 | 0.0461 | 0.050 | 94 | 92 | 70-130 | 2.48 | 20 |
| g-Chlordane | 0.0501 | 0.0487 | 0.050 | 100 | 97 | 70-130 | 2.85 | 20 |
| p,p-DDD | 0.0585 | 0.0564 | 0.050 | 117 | 113 | 70-130 | 3.65 | 20 |
| p,p-DDE | 0.0511 | 0.0492 | 0.050 | 102 | 98 | 70-130 | 3.71 | 20 |
| p,p-DDT | 0.0535 | 0.0511 | 0.050 | 107 | 102 | 70-130 | 4.69 | 20 |
| Dieldrin | 0.0524 | 0.0507 | 0.050 | 105 | 101 | 70-130 | 3.23 | 20 |
| Endosulfan I | 0.0572 | 0.0554 | 0.050 | 114 | 111 | 70-130 | 3.35 | 20 |
| Endosulfan II | 0.0505 | 0.0487 | 0.050 | 101 | 97 | 70-130 | 3.76 | 20 |
| Endosulfan sulfate | 0.0502 | 0.0483 | 0.050 | 100 | 97 | 70-130 | 3.81 | 20 |
| Endrin | 0.0624 | 0.0602 | 0.050 | 125 | 120 | 70-130 | 3.59 | 20 |
| Endrin aldehyde | 0.0545 | 0.0528 | 0.050 | 109 | 106 | 70-130 | 3.13 | 20 |
| Endrin ketone | 0.0489 | 0.0470 | 0.050 | 98 | 94 | 70-130 | 3.96 | 20 |
| Heptachlor | 0.0496 | 0.0484 | 0.050 | 99 | 97 | 70-130 | 2.33 | 20 |
| Heptachlor epoxide | 0.0478 | 0.0465 | 0.050 | 96 | 93 | 70-130 | 2.74 | 20 |
| Hexachlorobenzene | 0.0468 | 0.0454 | 0.050 | 94 | 91 | 70-130 | 2.94 | 20 |
| Hexachlorocyclopentadiene | 0.0403 | 0.0418 | 0.050 | 81 | 84 | 50-130 | 3.53 | 20 |
| Methoxychlor | 0.0628 | 0.0602 | 0.050 | 126 | 120 | 70-130 | 4.29 | 20 |
| Aroclor1016 | 0.148 | 0.151 | 0.15 | 99 | 100 | 70-130 | 1.78 | 20 |
| Aroclor1260 | 0.145 | 0.155 | 0.15 | 97 | 104 | 70-130 | 6.73 | 20 |
| **Surrogate Recovery** | | | | | | | | |
| Decachlorobiphenyl | 0.0521 | 0.0461 | 0.050 | 104 | 92 | 70-130 | 12.2 | 20 |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Prepared:** | 08/11/2021 | **BatchID:** | 227403 |
| **Date Analyzed:** | 08/11/2021 - 08/14/2021 | **Extraction Method:** | SW5030B |
| **Instrument:** | GC18, GC38 | **Analytical Method:** | SW8260B |
| **Matrix:** | Soil | **Unit:** | mg/kg |
| **Project:** | 1690021780; Valley Gardens | **Sample ID:** | MB/LCS/LCSD-227403 |

## QC Summary Report for SW8260B

| Analyte | MB Result | MDL | RL | SPK Val | MB SS %REC | MB SS Limits |
|---|---|---|---|---|---|---|
| Acetone | ND | 0.120 | 0.200 | - | - | - |
| tert-Amyl methyl ether (TAME) | ND | 0.000740 | 0.00500 | - | - | - |
| Benzene | ND | 0.000870 | 0.00500 | - | - | - |
| Bromobenzene | ND | 0.000910 | 0.00500 | - | - | - |
| Bromochloromethane | ND | 0.000910 | 0.00500 | - | - | - |
| Bromodichloromethane | ND | 0.0000940 | 0.00500 | - | - | - |
| Bromoform | ND | 0.00390 | 0.00500 | - | - | - |
| Bromomethane | ND | 0.00250 | 0.00500 | - | - | - |
| 2-Butanone (MEK) | ND | 0.0230 | 0.0500 | - | - | - |
| t-Butyl alcohol (TBA) | ND | 0.0230 | 0.0500 | - | - | - |
| n-Butyl benzene | ND | 0.00140 | 0.00500 | - | - | - |
| sec-Butyl benzene | ND | 0.00150 | 0.00500 | - | - | - |
| tert-Butyl benzene | ND | 0.00170 | 0.00500 | - | - | - |
| Carbon Disulfide | ND | 0.00150 | 0.00500 | - | - | - |
| Carbon Tetrachloride | ND | 0.000120 | 0.00500 | - | - | - |
| Chlorobenzene | ND | 0.000870 | 0.00500 | - | - | - |
| Chloroethane | ND | 0.00160 | 0.00500 | - | - | - |
| Chloroform | ND | 0.000190 | 0.00500 | - | - | - |
| Chloromethane | ND | 0.00170 | 0.00500 | - | - | - |
| 2-Chlorotoluene | ND | 0.00130 | 0.00500 | - | - | - |
| 4-Chlorotoluene | ND | 0.00100 | 0.00500 | - | - | - |
| Dibromochloromethane | ND | 0.000420 | 0.00500 | - | - | - |
| 1,2-Dibromo-3-chloropropane | ND | 0.000490 | 0.000500 | - | - | - |
| 1,2-Dibromoethane (EDB) | ND | 0.000120 | 0.000250 | - | - | - |
| Dibromomethane | ND | 0.000950 | 0.00500 | - | - | - |
| 1,2-Dichlorobenzene | ND | 0.00230 | 0.00500 | - | - | - |
| 1,3-Dichlorobenzene | ND | 0.00100 | 0.00500 | - | - | - |
| 1,4-Dichlorobenzene | ND | 0.00100 | 0.00500 | - | - | - |
| Dichlorodifluoromethane | ND | 0.00170 | 0.00500 | - | - | - |
| 1,1-Dichloroethane | ND | 0.000810 | 0.00500 | - | - | - |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0000710 | 0.000100 | - | - | - |
| 1,1-Dichloroethene | ND | 0.0000690 | 0.00500 | - | - | - |
| cis-1,2-Dichloroethene | ND | 0.000750 | 0.00500 | - | - | - |
| trans-1,2-Dichloroethene | ND | 0.00120 | 0.00500 | - | - | - |
| 1,2-Dichloropropane | ND | 0.000780 | 0.00500 | - | - | - |
| 1,3-Dichloropropane | ND | 0.00100 | 0.00500 | - | - | - |
| 2,2-Dichloropropane | ND | 0.00120 | 0.00500 | - | - | - |
| 1,1-Dichloropropene | ND | 0.000960 | 0.00500 | - | - | - |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Prepared:** | 08/11/2021 | **BatchID:** | 227403 |
| **Date Analyzed:** | 08/11/2021 - 08/14/2021 | **Extraction Method:** | SW5030B |
| **Instrument:** | GC18, GC38 | **Analytical Method:** | SW8260B |
| **Matrix:** | Soil | **Unit:** | mg/kg |
| **Project:** | 1690021780; Valley Gardens | **Sample ID:** | MB/LCS/LCSD-227403 |

## QC Summary Report for SW8260B

| Analyte | MB Result | MDL | RL | SPK Val | MB SS %REC | MB SS Limits |
|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | 0.000660 | 0.00500 | - | - | - |
| trans-1,3-Dichloropropene | ND | 0.000670 | 0.00500 | - | - | - |
| Diisopropyl ether (DIPE) | ND | 0.000780 | 0.00500 | - | - | - |
| Ethylbenzene | ND | 0.00110 | 0.00500 | - | - | - |
| Ethyl tert-butyl ether (ETBE) | ND | 0.000730 | 0.00500 | - | - | - |
| Freon 113 | ND | 0.00110 | 0.00500 | - | - | - |
| Hexachlorobutadiene | ND | 0.00120 | 0.00500 | - | - | - |
| Hexachloroethane | ND | 0.000670 | 0.00500 | - | - | - |
| 2-Hexanone | ND | 0.00430 | 0.00500 | - | - | - |
| Isopropylbenzene | ND | 0.00140 | 0.00500 | - | - | - |
| 4-Isopropyl toluene | ND | 0.00130 | 0.00500 | - | - | - |
| Methyl-t-butyl ether (MTBE) | ND | 0.00140 | 0.00500 | - | - | - |
| Methylene chloride | ND | 0.00580 | 0.0200 | - | - | - |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.00150 | 0.00500 | - | - | - |
| Naphthalene | ND | 0.00220 | 0.00500 | - | - | - |
| n-Propyl benzene | ND | 0.00160 | 0.00500 | - | - | - |
| Styrene | ND | 0.00120 | 0.00500 | - | - | - |
| 1,1,1,2-Tetrachloroethane | ND | 0.00100 | 0.00500 | - | - | - |
| 1,1,2,2-Tetrachloroethane | ND | 0.000280 | 0.00500 | - | - | - |
| Tetrachloroethene | ND | 0.000310 | 0.00500 | - | - | - |
| Toluene | ND | 0.00120 | 0.00500 | - | - | - |
| 1,2,3-Trichlorobenzene | ND | 0.00170 | 0.00500 | - | - | - |
| 1,2,4-Trichlorobenzene | ND | 0.00120 | 0.00500 | - | - | - |
| 1,1,1-Trichloroethane | ND | 0.000840 | 0.00500 | - | - | - |
| 1,1,2-Trichloroethane | ND | 0.000920 | 0.00500 | - | - | - |
| Trichloroethene | ND | 0.000810 | 0.00500 | - | - | - |
| Trichlorofluoromethane | ND | 0.00130 | 0.00500 | - | - | - |
| 1,2,3-Trichloropropane | ND | 0.000150 | 0.000250 | - | - | - |
| 1,2,4-Trimethylbenzene | ND | 0.00320 | 0.00500 | - | - | - |
| 1,3,5-Trimethylbenzene | ND | 0.00120 | 0.00500 | - | - | - |
| Vinyl Chloride | ND | 0.000130 | 0.000250 | - | - | - |
| m,p-Xylene | ND | 0.00250 | 0.00500 | - | - | - |
| o-Xylene | ND | 0.00120 | 0.00500 | - | - | - |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Prepared:** | 08/11/2021 | **BatchID:** | 227403 |
| **Date Analyzed:** | 08/11/2021 - 08/14/2021 | **Extraction Method:** | SW5030B |
| **Instrument:** | GC18, GC38 | **Analytical Method:** | SW8260B |
| **Matrix:** | Soil | **Unit:** | mg/kg |
| **Project:** | 1690021780; Valley Gardens | **Sample ID:** | MB/LCS/LCSD-227403 |

## QC Summary Report for SW8260B

| Analyte | MB Result | MDL | RL | SPK Val | MB SS %REC | MB SS Limits |
|---|---|---|---|---|---|---|
| **Surrogate Recovery** | | | | | | |
| Dibromofluoromethane | 0.116 | | | 0.125 | 93 | 70-140 |
| Toluene-d8 | 0.120 | | | 0.125 | 96 | 70-140 |
| 4-BFB | 0.0111 | | | 0.0125 | 89 | 70-140 |
| Benzene-d6 | 0.114 | | | 0.1 | 114 | 70-140 |
| Ethylbenzene-d10 | 0.114 | | | 0.1 | 113 | 70-140 |
| 1,2-DCB-d4 | 0.0809 | | | 0.1 | 81 | 70-140 |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Prepared:** | 08/11/2021 | **BatchID:** | 227403 |
| **Date Analyzed:** | 08/11/2021 - 08/14/2021 | **Extraction Method:** | SW5030B |
| **Instrument:** | GC18, GC38 | **Analytical Method:** | SW8260B |
| **Matrix:** | Soil | **Unit:** | mg/kg |
| **Project:** | 1690021780; Valley Gardens | **Sample ID:** | MB/LCS/LCSD-227403 |

## QC Summary Report for SW8260B

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Acetone | 0.253 | 0.258 | 0.20 | 127 | 129 | 60-140 | 2.02 | 20 |
| tert-Amyl methyl ether (TAME) | 0.0168 | 0.0172 | 0.020 | 84 | 86 | 50-140 | 2.29 | 20 |
| Benzene | 0.0179 | 0.0187 | 0.020 | 89 | 94 | 60-140 | 4.44 | 20 |
| Bromobenzene | 0.0165 | 0.0176 | 0.020 | 83 | 88 | 60-140 | 6.56 | 20 |
| Bromochloromethane | 0.0169 | 0.0175 | 0.020 | 84 | 87 | 60-140 | 3.34 | 20 |
| Bromodichloromethane | 0.0178 | 0.0184 | 0.020 | 89 | 92 | 60-140 | 3.75 | 20 |
| Bromoform | 0.0135 | 0.0136 | 0.020 | 68 | 68 | 40-140 | 0.950 | 20 |
| Bromomethane | 0.0270 | 0.0291 | 0.020 | 135 | 146,F2 | 30-140 | 7.45 | 20 |
| 2-Butanone (MEK) | 0.113 | 0.116 | 0.080 | 141,F2 | 145,F2 | 50-140 | 2.91 | 20 |
| t-Butyl alcohol (TBA) | 0.0910 | 0.0928 | 0.080 | 114 | 116 | 50-140 | 1.90 | 20 |
| n-Butyl benzene | 0.0226 | 0.0241 | 0.020 | 113 | 120 | 60-150 | 6.56 | 20 |
| sec-Butyl benzene | 0.0188 | 0.0205 | 0.020 | 94 | 102 | 60-150 | 8.75 | 20 |
| tert-Butyl benzene | 0.0195 | 0.0208 | 0.020 | 97 | 104 | 60-140 | 6.54 | 20 |
| Carbon Disulfide | 0.0170 | 0.0181 | 0.020 | 85 | 91 | 50-140 | 6.02 | 20 |
| Carbon Tetrachloride | 0.0184 | 0.0195 | 0.020 | 92 | 97 | 60-140 | 5.62 | 20 |
| Chlorobenzene | 0.0170 | 0.0174 | 0.020 | 85 | 87 | 60-140 | 2.27 | 20 |
| Chloroethane | 0.0156 | 0.0165 | 0.020 | 78 | 83 | 50-140 | 6.02 | 20 |
| Chloroform | 0.0182 | 0.0191 | 0.020 | 91 | 95 | 60-140 | 4.89 | 20 |
| Chloromethane | 0.0143 | 0.0153 | 0.020 | 71 | 77 | 20-140 | 7.17 | 20 |
| 2-Chlorotoluene | 0.0181 | 0.0196 | 0.020 | 91 | 98 | 60-140 | 7.70 | 20 |
| 4-Chlorotoluene | 0.0186 | 0.0196 | 0.020 | 93 | 98 | 60-140 | 5.67 | 20 |
| Dibromochloromethane | 0.0166 | 0.0171 | 0.020 | 83 | 85 | 50-140 | 2.93 | 20 |
| 1,2-Dibromo-3-chloropropane | 0.00854 | 0.00871 | 0.010 | 85 | 87 | 30-140 | 1.99 | 20 |
| 1,2-Dibromoethane (EDB) | 0.00912 | 0.00938 | 0.010 | 91 | 94 | 40-140 | 2.79 | 20 |
| Dibromomethane | 0.0174 | 0.0179 | 0.020 | 87 | 89 | 60-140 | 2.76 | 20 |
| 1,2-Dichlorobenzene | 0.0151 | 0.0156 | 0.020 | 75 | 78 | 60-140 | 3.11 | 20 |
| 1,3-Dichlorobenzene | 0.0167 | 0.0181 | 0.020 | 83 | 91 | 60-140 | 8.11 | 20 |
| 1,4-Dichlorobenzene | 0.0167 | 0.0181 | 0.020 | 83 | 91 | 60-140 | 8.11 | 20 |
| Dichlorodifluoromethane | 0.00711 | 0.00758 | 0.020 | 36 | 38 | 10-140 | 6.39 | 20 |
| 1,1-Dichloroethane | 0.0174 | 0.0183 | 0.020 | 87 | 91 | 60-140 | 4.95 | 20 |
| 1,2-Dichloroethane (1,2-DCA) | 0.0181 | 0.0189 | 0.020 | 90 | 94 | 60-140 | 4.31 | 20 |
| 1,1-Dichloroethene | 0.0177 | 0.0184 | 0.020 | 89 | 92 | 60-140 | 3.82 | 20 |
| cis-1,2-Dichloroethene | 0.0173 | 0.0181 | 0.020 | 86 | 90 | 60-140 | 4.52 | 20 |
| trans-1,2-Dichloroethene | 0.0174 | 0.0182 | 0.020 | 87 | 91 | 60-140 | 4.43 | 20 |
| 1,2-Dichloropropane | 0.0175 | 0.0183 | 0.020 | 88 | 92 | 60-140 | 4.52 | 20 |
| 1,3-Dichloropropane | 0.0177 | 0.0182 | 0.020 | 88 | 91 | 60-140 | 2.78 | 20 |
| 2,2-Dichloropropane | 0.0194 | 0.0204 | 0.020 | 97 | 102 | 60-140 | 4.88 | 20 |
| 1,1-Dichloropropene | 0.0179 | 0.0189 | 0.020 | 89 | 94 | 60-140 | 5.50 | 20 |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Prepared:** | 08/11/2021 | **BatchID:** | 227403 |
| **Date Analyzed:** | 08/11/2021 - 08/14/2021 | **Extraction Method:** | SW5030B |
| **Instrument:** | GC18, GC38 | **Analytical Method:** | SW8260B |
| **Matrix:** | Soil | **Unit:** | mg/kg |
| **Project:** | 1690021780; Valley Gardens | **Sample ID:** | MB/LCS/LCSD-227403 |

## QC Summary Report for SW8260B

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 0.0180 | 0.0187 | 0.020 | 90 | 93 | 60-140 | 3.45 | 20 |
| trans-1,3-Dichloropropene | 0.0190 | 0.0196 | 0.020 | 95 | 98 | 60-140 | 3.02 | 20 |
| Diisopropyl ether (DIPE) | 0.0168 | 0.0174 | 0.020 | 84 | 87 | 60-140 | 3.17 | 20 |
| Ethylbenzene | 0.0194 | 0.0203 | 0.020 | 97 | 101 | 60-140 | 4.36 | 20 |
| Ethyl tert-butyl ether (ETBE) | 0.0173 | 0.0180 | 0.020 | 86 | 90 | 60-140 | 4.15 | 20 |
| Freon 113 | 0.0154 | 0.0164 | 0.020 | 77 | 82 | 50-140 | 6.04 | 20 |
| Hexachlorobutadiene | 0.0202 | 0.0212 | 0.020 | 101 | 106 | 60-140 | 4.93 | 20 |
| Hexachloroethane | 0.0197 | 0.0209 | 0.020 | 99 | 105 | 60-140 | 5.88 | 20 |
| 2-Hexanone | 0.0200 | 0.0206 | 0.020 | 100 | 103 | 40-140 | 2.99 | 20 |
| Isopropylbenzene | 0.0206 | 0.0223 | 0.020 | 103 | 112 | 60-140 | 7.80 | 20 |
| 4-Isopropyl toluene | 0.0210 | 0.0232 | 0.020 | 105 | 116 | 60-150 | 9.67 | 20 |
| Methyl-t-butyl ether (MTBE) | 0.0178 | 0.0186 | 0.020 | 89 | 93 | 50-140 | 4.23 | 20 |
| Methylene chloride | 0.0223 | 0.0231 | 0.020 | 111 | 116 | 60-140 | 3.63 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.0197 | 0.0187 | 0.020 | 98 | 93 | 50-140 | 5.27 | 20 |
| Naphthalene | 0.00897 | 0.00929 | 0.020 | 45 | 46 | 30-140 | 3.59 | 20 |
| n-Propyl benzene | 0.0204 | 0.0218 | 0.020 | 102 | 109 | 60-140 | 6.55 | 20 |
| Styrene | 0.0172 | 0.0167 | 0.020 | 86 | 84 | 60-140 | 2.75 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0169 | 0.0177 | 0.020 | 84 | 88 | 60-140 | 4.57 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0172 | 0.0180 | 0.020 | 86 | 90 | 40-140 | 4.41 | 20 |
| Tetrachloroethene | 0.0185 | 0.0196 | 0.020 | 93 | 98 | 60-140 | 5.44 | 20 |
| Toluene | 0.0178 | 0.0185 | 0.020 | 89 | 93 | 60-140 | 3.71 | 20 |
| 1,2,3-Trichlorobenzene | 0.0102 | 0.0107 | 0.020 | 51 | 53 | 40-140 | 5.13 | 20 |
| 1,2,4-Trichlorobenzene | 0.0131 | 0.0140 | 0.020 | 65 | 70 | 50-140 | 7.14 | 20 |
| 1,1,1-Trichloroethane | 0.0177 | 0.0188 | 0.020 | 88 | 94 | 60-140 | 6.07 | 20 |
| 1,1,2-Trichloroethane | 0.0178 | 0.0179 | 0.020 | 89 | 89 | 60-140 | 0.672 | 20 |
| Trichloroethene | 0.0180 | 0.0190 | 0.020 | 90 | 95 | 60-140 | 5.51 | 20 |
| Trichlorofluoromethane | 0.0161 | 0.0169 | 0.020 | 81 | 85 | 50-140 | 4.76 | 20 |
| 1,2,3-Trichloropropane | 0.00922 | 0.00970 | 0.010 | 92 | 97 | 40-140 | 5.12 | 20 |
| 1,2,4-Trimethylbenzene | 0.0195 | 0.0210 | 0.020 | 98 | 105 | 30-140 | 7.31 | 20 |
| 1,3,5-Trimethylbenzene | 0.0210 | 0.0227 | 0.020 | 105 | 113 | 60-140 | 7.81 | 20 |
| Vinyl Chloride | 0.00799 | 0.00847 | 0.010 | 80 | 85 | 30-140 | 5.81 | 20 |
| m,p-Xylene | 0.0373 | 0.0391 | 0.040 | 93 | 98 | 60-140 | 4.72 | 20 |
| o-Xylene | 0.0180 | 0.0185 | 0.020 | 90 | 93 | 60-140 | 2.64 | 20 |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Prepared:** | 08/11/2021 | **BatchID:** | 227403 |
| **Date Analyzed:** | 08/11/2021 - 08/14/2021 | **Extraction Method:** | SW5030B |
| **Instrument:** | GC18, GC38 | **Analytical Method:** | SW8260B |
| **Matrix:** | Soil | **Unit:** | mg/kg |
| **Project:** | 1690021780; Valley Gardens | **Sample ID:** | MB/LCS/LCSD-227403 |

## QC Summary Report for SW8260B

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| **Surrogate Recovery** | | | | | | | | |
| Dibromofluoromethane | 0.117 | 0.117 | 0.12 | 94 | 93 | 70-140 | 0.506 | 20 |
| Toluene-d8 | 0.120 | 0.121 | 0.12 | 96 | 97 | 70-140 | 0.601 | 20 |
| 4-BFB | 0.0111 | 0.0114 | 0.012 | 89 | 91 | 70-140 | 2.12 | 20 |
| Benzene-d6 | 0.119 | 0.125 | 0.10 | 119 | 125 | 70-140 | 4.54 | 20 |
| Ethylbenzene-d10 | 0.122 | 0.127 | 0.10 | 122 | 127 | 70-140 | 3.91 | 20 |
| 1,2-DCB-d4 | 0.0883 | 0.0933 | 0.10 | 88 | 93 | 70-140 | 5.54 | 20 |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Prepared:** | 08/17/2021 | **BatchID:** | 227837 |
| **Date Analyzed:** | 08/17/2021 | **Extraction Method:** | SW5030B |
| **Instrument:** | GC38 | **Analytical Method:** | SW8260B |
| **Matrix:** | Water | **Unit:** | µg/L |
| **Project:** | 1690021780; Valley Gardens | **Sample ID:** | MB/LCS/LCSD-227837 |

## QC Summary Report for SW8260B

| Analyte | MB Result | MDL | RL | SPK Val | MB SS %REC | MB SS Limits |
|---|---|---|---|---|---|---|
| Acetone | ND | 6.30 | 40.0 | - | - | - |
| tert-Amyl methyl ether (TAME) | ND | 0.130 | 0.500 | - | - | - |
| Benzene | ND | 0.120 | 0.200 | - | - | - |
| Bromobenzene | ND | 0.130 | 0.500 | - | - | - |
| Bromochloromethane | ND | 0.110 | 0.500 | - | - | - |
| Bromodichloromethane | ND | 0.0250 | 0.0500 | - | - | - |
| Bromoform | ND | 0.310 | 0.500 | - | - | - |
| Bromomethane | ND | 0.180 | 0.500 | - | - | - |
| 2-Butanone (MEK) | ND | 1.50 | 5.00 | - | - | - |
| t-Butyl alcohol (TBA) | ND | 2.50 | 5.00 | - | - | - |
| n-Butyl benzene | ND | 0.230 | 0.500 | - | - | - |
| sec-Butyl benzene | ND | 0.170 | 0.500 | - | - | - |
| tert-Butyl benzene | ND | 0.130 | 0.500 | - | - | - |
| Carbon Disulfide | ND | 0.180 | 0.500 | - | - | - |
| Carbon Tetrachloride | ND | 0.0280 | 0.0500 | - | - | - |
| Chlorobenzene | ND | 0.110 | 0.500 | - | - | - |
| Chloroethane | ND | 0.200 | 0.500 | - | - | - |
| Chloroform | ND | 0.0910 | 0.100 | - | - | - |
| Chloromethane | ND | 0.280 | 0.500 | - | - | - |
| 2-Chlorotoluene | ND | 0.230 | 0.500 | - | - | - |
| 4-Chlorotoluene | ND | 0.120 | 0.500 | - | - | - |
| Dibromochloromethane | ND | 0.0260 | 0.150 | - | - | - |
| 1,2-Dibromo-3-chloropropane | ND | 0.0100 | 0.0200 | - | - | - |
| 1,2-Dibromoethane (EDB) | ND | 0.0210 | 0.0400 | - | - | - |
| Dibromomethane | ND | 0.120 | 0.500 | - | - | - |
| 1,2-Dichlorobenzene | ND | 0.160 | 0.500 | - | - | - |
| 1,3-Dichlorobenzene | ND | 0.120 | 0.500 | - | - | - |
| 1,4-Dichlorobenzene | ND | 0.0930 | 0.500 | - | - | - |
| Dichlorodifluoromethane | ND | 0.290 | 0.500 | - | - | - |
| 1,1-Dichloroethane | ND | 0.150 | 0.500 | - | - | - |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0110 | 0.0200 | - | - | - |
| 1,1-Dichloroethene | ND | 0.00940 | 0.0100 | - | - | - |
| cis-1,2-Dichloroethene | ND | 0.0930 | 0.500 | - | - | - |
| trans-1,2-Dichloroethene | ND | 0.110 | 0.500 | - | - | - |
| 1,2-Dichloropropane | ND | 0.0190 | 0.200 | - | - | - |
| 1,3-Dichloropropane | ND | 0.170 | 0.500 | - | - | - |
| 2,2-Dichloropropane | ND | 0.220 | 0.500 | - | - | - |
| 1,1-Dichloropropene | ND | 0.0850 | 0.500 | - | - | - |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Prepared:** | 08/17/2021 | **BatchID:** | 227837 |
| **Date Analyzed:** | 08/17/2021 | **Extraction Method:** | SW5030B |
| **Instrument:** | GC38 | **Analytical Method:** | SW8260B |
| **Matrix:** | Water | **Unit:** | µg/L |
| **Project:** | 1690021780; Valley Gardens | **Sample ID:** | MB/LCS/LCSD-227837 |

## QC Summary Report for SW8260B

| Analyte | MB Result | MDL | RL | SPK Val | MB SS %REC | MB SS Limits |
|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | 0.210 | 0.500 | - | - | - |
| trans-1,3-Dichloropropene | ND | 0.280 | 0.500 | - | - | - |
| Diisopropyl ether (DIPE) | ND | 0.120 | 0.500 | - | - | - |
| Ethylbenzene | ND | 0.140 | 0.500 | - | - | - |
| Ethyl tert-butyl ether (ETBE) | ND | 0.160 | 0.500 | - | - | - |
| Freon 113 | ND | 0.130 | 0.500 | - | - | - |
| Hexachlorobutadiene | ND | 0.150 | 0.500 | - | - | - |
| Hexachloroethane | ND | 0.0590 | 0.200 | - | - | - |
| 2-Hexanone | ND | 0.320 | 0.500 | - | - | - |
| Isopropylbenzene | ND | 0.160 | 0.500 | - | - | - |
| 4-Isopropyl toluene | ND | 0.150 | 0.500 | - | - | - |
| Methyl-t-butyl ether (MTBE) | ND | 0.160 | 0.500 | - | - | - |
| Methylene chloride | ND | 0.740 | 2.00 | - | - | - |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.440 | 0.500 | - | - | - |
| Naphthalene | ND | 0.150 | 0.300 | - | - | - |
| n-Propyl benzene | ND | 0.120 | 0.500 | - | - | - |
| Styrene | ND | 0.280 | 2.00 | - | - | - |
| 1,1,1,2-Tetrachloroethane | ND | 0.160 | 0.500 | - | - | - |
| 1,1,2,2-Tetrachloroethane | ND | 0.0110 | 0.0200 | - | - | - |
| Tetrachloroethene | ND | 0.160 | 0.200 | - | - | - |
| Toluene | ND | 0.170 | 0.500 | - | - | - |
| 1,2,3-Trichlorobenzene | ND | 0.240 | 0.500 | - | - | - |
| 1,2,4-Trichlorobenzene | ND | 0.220 | 0.500 | - | - | - |
| 1,1,1-Trichloroethane | ND | 0.110 | 0.500 | - | - | - |
| 1,1,2-Trichloroethane | ND | 0.110 | 0.200 | - | - | - |
| Trichloroethene | ND | 0.250 | 0.500 | - | - | - |
| Trichlorofluoromethane | ND | 0.140 | 0.500 | - | - | - |
| 1,2,3-Trichloropropane | ND | 0.00450 | 0.00500 | - | - | - |
| 1,2,4-Trimethylbenzene | ND | 0.180 | 0.500 | - | - | - |
| 1,3,5-Trimethylbenzene | ND | 0.160 | 0.500 | - | - | - |
| Vinyl Chloride | ND | 0.00430 | 0.00500 | - | - | - |
| m,p-Xylene | ND | 0.250 | 0.500 | - | - | - |
| o-Xylene | ND | 0.130 | 0.500 | - | - | - |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Prepared:** | 08/17/2021 | **BatchID:** | 227837 |
| **Date Analyzed:** | 08/17/2021 | **Extraction Method:** | SW5030B |
| **Instrument:** | GC38 | **Analytical Method:** | SW8260B |
| **Matrix:** | Water | **Unit:** | µg/L |
| **Project:** | 1690021780; Valley Gardens | **Sample ID:** | MB/LCS/LCSD-227837 |

## QC Summary Report for SW8260B

| Analyte | MB Result | MDL | RL | SPK Val | MB SS %REC | MB SS Limits |
|---|---|---|---|---|---|---|
| **Surrogate Recovery** | | | | | | |
| Dibromofluoromethane | 27.5 | | | 25 | 110 | 70-130 |
| Toluene-d8 | 25.0 | | | 25 | 100 | 70-130 |
| 4-BFB | 2.48 | | | 2.5 | 99 | 70-130 |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Prepared:** | 08/17/2021 | **BatchID:** | 227837 |
| **Date Analyzed:** | 08/17/2021 | **Extraction Method:** | SW5030B |
| **Instrument:** | GC38 | **Analytical Method:** | SW8260B |
| **Matrix:** | Water | **Unit:** | µg/L |
| **Project:** | 1690021780; Valley Gardens | **Sample ID:** | MB/LCS/LCSD-227837 |

## QC Summary Report for SW8260B

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Acetone | 38.1 | 38.7 | 40 | 95 | 97 | 60-130 | 1.69 | 20 |
| tert-Amyl methyl ether (TAME) | 3.98 | 4.19 | 4 | 99 | 105 | 60-130 | 5.11 | 20 |
| Benzene | 3.90 | 4.06 | 4 | 97 | 102 | 60-130 | 4.15 | 20 |
| Bromobenzene | 4.30 | 4.52 | 4 | 107 | 113 | 60-130 | 5.11 | 20 |
| Bromochloromethane | 4.48 | 4.64 | 4 | 112 | 116 | 60-130 | 3.69 | 20 |
| Bromodichloromethane | 3.94 | 4.13 | 4 | 99 | 103 | 60-130 | 4.76 | 20 |
| Bromoform | 4.12 | 4.31 | 4 | 103 | 108 | 50-130 | 4.59 | 20 |
| Bromomethane | 2.24 | 2.20 | 4 | 56 | 55 | 50-130 | 1.80 | 20 |
| 2-Butanone (MEK) | 14.7 | 15.4 | 16 | 92 | 96 | 60-130 | 4.96 | 20 |
| t-Butyl alcohol (TBA) | 15.0 | 15.2 | 16 | 94 | 95 | 50-130 | 1.37 | 20 |
| n-Butyl benzene | 4.26 | 4.24 | 4 | 106 | 106 | 60-130 | 0.268 | 20 |
| sec-Butyl benzene | 4.12 | 4.28 | 4 | 103 | 107 | 60-130 | 3.89 | 20 |
| tert-Butyl benzene | 4.19 | 4.33 | 4 | 105 | 108 | 60-130 | 3.22 | 20 |
| Carbon Disulfide | 4.39 | 4.52 | 4 | 110 | 113 | 60-130 | 3.05 | 20 |
| Carbon Tetrachloride | 4.80 | 5.00 | 4 | 120 | 125 | 60-130 | 4.25 | 20 |
| Chlorobenzene | 4.15 | 4.27 | 4 | 104 | 107 | 60-130 | 2.86 | 20 |
| Chloroethane | 3.66 | 3.63 | 4 | 92 | 91 | 60-140 | 0.948 | 20 |
| Chloroform | 4.39 | 4.60 | 4 | 110 | 115 | 60-130 | 4.64 | 20 |
| Chloromethane | 3.89 | 3.92 | 4 | 97 | 98 | 50-130 | 0.580 | 20 |
| 2-Chlorotoluene | 4.05 | 4.26 | 4 | 101 | 107 | 60-130 | 5.14 | 20 |
| 4-Chlorotoluene | 3.88 | 4.06 | 4 | 97 | 102 | 60-130 | 4.48 | 20 |
| Dibromochloromethane | 3.98 | 4.14 | 4 | 100 | 104 | 50-130 | 3.97 | 20 |
| 1,2-Dibromo-3-chloropropane | 2.05 | 2.13 | 2 | 103 | 107 | 50-130 | 3.92 | 20 |
| 1,2-Dibromoethane (EDB) | 2.19 | 2.26 | 2 | 109 | 113 | 60-130 | 3.27 | 20 |
| Dibromomethane | 4.22 | 4.37 | 4 | 105 | 109 | 60-130 | 3.64 | 20 |
| 1,2-Dichlorobenzene | 3.91 | 4.08 | 4 | 98 | 102 | 60-130 | 4.23 | 20 |
| 1,3-Dichlorobenzene | 4.17 | 4.34 | 4 | 104 | 109 | 60-130 | 4.08 | 20 |
| 1,4-Dichlorobenzene | 4.08 | 4.18 | 4 | 102 | 104 | 60-130 | 2.23 | 20 |
| Dichlorodifluoromethane | 6.42 | 6.26 | 4 | 161,F2 | 156,F2 | 40-140 | 2.64 | 20 |
| 1,1-Dichloroethane | 3.97 | 4.14 | 4 | 99 | 104 | 50-130 | 4.20 | 20 |
| 1,2-Dichloroethane (1,2-DCA) | 4.00 | 4.18 | 4 | 100 | 105 | 60-130 | 4.46 | 20 |
| 1,1-Dichloroethene | 4.10 | 4.27 | 4 | 102 | 107 | 60-130 | 4.09 | 20 |
| cis-1,2-Dichloroethene | 4.19 | 4.32 | 4 | 105 | 108 | 60-130 | 3.01 | 20 |
| trans-1,2-Dichloroethene | 4.27 | 4.43 | 4 | 107 | 111 | 60-130 | 3.79 | 20 |
| 1,2-Dichloropropane | 3.79 | 3.96 | 4 | 95 | 99 | 60-130 | 4.39 | 20 |
| 1,3-Dichloropropane | 3.71 | 3.82 | 4 | 93 | 96 | 60-130 | 3.04 | 20 |
| 2,2-Dichloropropane | 4.62 | 4.71 | 4 | 115 | 118 | 60-130 | 2.05 | 20 |
| 1,1-Dichloropropene | 4.05 | 4.21 | 4 | 101 | 105 | 60-130 | 3.72 | 20 |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Prepared:** | 08/17/2021 | **BatchID:** | 227837 |
| **Date Analyzed:** | 08/17/2021 | **Extraction Method:** | SW5030B |
| **Instrument:** | GC38 | **Analytical Method:** | SW8260B |
| **Matrix:** | Water | **Unit:** | µg/L |
| **Project:** | 1690021780; Valley Gardens | **Sample ID:** | MB/LCS/LCSD-227837 |

## QC Summary Report for SW8260B

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 3.96 | 4.10 | 4 | 99 | 102 | 60-130 | 3.52 | 20 |
| trans-1,3-Dichloropropene | 4.04 | 4.18 | 4 | 101 | 104 | 60-130 | 3.27 | 20 |
| Diisopropyl ether (DIPE) | 3.77 | 3.94 | 4 | 94 | 98 | 60-130 | 4.34 | 20 |
| Ethylbenzene | 4.09 | 4.20 | 4 | 102 | 105 | 60-130 | 2.47 | 20 |
| Ethyl tert-butyl ether (ETBE) | 3.99 | 4.16 | 4 | 100 | 104 | 60-130 | 4.36 | 20 |
| Freon 113 | 4.44 | 4.60 | 4 | 111 | 115 | 60-130 | 3.61 | 20 |
| Hexachlorobutadiene | 4.50 | 4.66 | 4 | 112 | 117 | 60-130 | 3.63 | 20 |
| Hexachloroethane | 4.11 | 4.32 | 4 | 103 | 108 | 50-130 | 4.85 | 20 |
| 2-Hexanone | 3.80 | 3.94 | 4 | 95 | 98 | 50-130 | 3.50 | 20 |
| Isopropylbenzene | 4.12 | 4.31 | 4 | 103 | 108 | 60-130 | 4.46 | 20 |
| 4-Isopropyl toluene | 4.20 | 4.37 | 4 | 105 | 109 | 60-130 | 3.96 | 20 |
| Methyl-t-butyl ether (MTBE) | 3.93 | 4.11 | 4 | 98 | 103 | 60-130 | 4.29 | 20 |
| Methylene chloride | 3.46 | 3.60 | 4 | 87 | 90 | 50-130 | 3.96 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 3.56 | 3.68 | 4 | 89 | 92 | 50-130 | 3.34 | 20 |
| Naphthalene | 4.85 | 5.02 | 4 | 121 | 125 | 60-130 | 3.45 | 20 |
| n-Propyl benzene | 4.22 | 4.43 | 4 | 105 | 111 | 60-130 | 4.83 | 20 |
| Styrene | 3.75 | 3.84 | 4 | 94 | 96 | 60-130 | 2.43 | 20 |
| 1,1,1,2-Tetrachloroethane | 4.41 | 4.54 | 4 | 110 | 113 | 60-130 | 2.98 | 20 |
| 1,1,2,2-Tetrachloroethane | 3.85 | 4.04 | 4 | 96 | 101 | 60-130 | 4.86 | 20 |
| Tetrachloroethene | 4.55 | 4.65 | 4 | 114 | 116 | 60-130 | 2.21 | 20 |
| Toluene | 3.87 | 3.95 | 4 | 97 | 99 | 60-130 | 2.02 | 20 |
| 1,2,3-Trichlorobenzene | 4.38 | 4.53 | 4 | 109 | 113 | 60-130 | 3.49 | 20 |
| 1,2,4-Trichlorobenzene | 4.56 | 4.72 | 4 | 114 | 118 | 60-130 | 3.46 | 20 |
| 1,1,1-Trichloroethane | 4.40 | 4.59 | 4 | 110 | 115 | 60-130 | 4.38 | 20 |
| 1,1,2-Trichloroethane | 3.93 | 4.07 | 4 | 98 | 102 | 60-130 | 3.48 | 20 |
| Trichloroethene | 4.34 | 4.51 | 4 | 108 | 113 | 60-130 | 3.96 | 20 |
| Trichlorofluoromethane | 4.84 | 5.02 | 4 | 121 | 125 | 60-130 | 3.69 | 20 |
| 1,2,3-Trichloropropane | 1.85 | 1.94 | 2 | 93 | 97 | 60-130 | 4.40 | 20 |
| 1,2,4-Trimethylbenzene | 4.11 | 4.27 | 4 | 103 | 107 | 60-130 | 3.80 | 20 |
| 1,3,5-Trimethylbenzene | 4.14 | 4.35 | 4 | 103 | 109 | 60-130 | 5.12 | 20 |
| Vinyl Chloride | 2.22 | 2.25 | 2 | 111 | 113 | 60-130 | 1.43 | 20 |
| m,p-Xylene | 8.22 | 8.25 | 8 | 103 | 103 | 60-130 | 0.467 | 20 |
| o-Xylene | 3.96 | 4.08 | 4 | 99 | 102 | 60-130 | 3.05 | 20 |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Prepared:** | 08/17/2021 | **BatchID:** | 227837 |
| **Date Analyzed:** | 08/17/2021 | **Extraction Method:** | SW5030B |
| **Instrument:** | GC38 | **Analytical Method:** | SW8260B |
| **Matrix:** | Water | **Unit:** | µg/L |
| **Project:** | 1690021780; Valley Gardens | **Sample ID:** | MB/LCS/LCSD-227837 |

## QC Summary Report for SW8260B

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| **Surrogate Recovery** | | | | | | | | |
| Dibromofluoromethane | 27.9 | 28.0 | 25 | 111 | 112 | 70-130 | 0.409 | 20 |
| Toluene-d8 | 24.9 | 24.9 | 25 | 99 | 100 | 70-130 | 0.154 | 20 |
| 4-BFB | 2.48 | 2.52 | 2.5 | 99 | 101 | 70-130 | 1.62 | 20 |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Prepared:** | 08/12/2021 | **BatchID:** | 227443 |
| **Date Analyzed:** | 08/12/2021 | **Extraction Method:** | SW3050B |
| **Instrument:** | ICP-MS5 | **Analytical Method:** | SW6020 |
| **Matrix:** | Soil | **Unit:** | mg/kg |
| **Project:** | 1690021780; Valley Gardens | **Sample ID:** | MB/LCS/LCSD-227443<br>2108589-009AMS/MSD |

## QC Summary Report for Metals

| Analyte | MB Result | MDL | RL | SPK Val | MB SS %REC | MB SS Limits |
|---|---|---|---|---|---|---|
| Antimony | ND | 0.160 | 0.500 | - | - | - |
| Arsenic | ND | 0.150 | 0.500 | - | - | - |
| Barium | ND | 0.570 | 5.00 | - | - | - |
| Beryllium | ND | 0.0730 | 0.500 | - | - | - |
| Cadmium | ND | 0.0940 | 0.500 | - | - | - |
| Chromium | ND | 0.130 | 0.500 | - | - | - |
| Cobalt | ND | 0.0520 | 0.500 | - | - | - |
| Copper | ND | 0.180 | 0.500 | - | - | - |
| Lead | ND | 0.140 | 0.500 | - | - | - |
| Mercury | ND | 0.0320 | 0.0500 | - | - | - |
| Molybdenum | ND | 0.160 | 0.500 | - | - | - |
| Nickel | ND | 0.170 | 0.500 | - | - | - |
| Selenium | ND | 0.150 | 0.500 | - | - | - |
| Silver | ND | 0.120 | 0.500 | - | - | - |
| Thallium | ND | 0.0670 | 0.500 | - | - | - |
| Vanadium | ND | 0.130 | 0.500 | - | - | - |
| Zinc | ND | 3.00 | 5.00 | - | - | - |
| **Surrogate Recovery** | | | | | | |
| Terbium | 526 | | | 500 | 105 | 70-130 |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Prepared:** | 08/12/2021 | **BatchID:** | 227443 |
| **Date Analyzed:** | 08/12/2021 | **Extraction Method:** | SW3050B |
| **Instrument:** | ICP-MS5 | **Analytical Method:** | SW6020 |
| **Matrix:** | Soil | **Unit:** | mg/kg |
| **Project:** | 1690021780; Valley Gardens | **Sample ID:** | MB/LCS/LCSD-227443<br>2108589-009AMS/MSD |

## QC Summary Report for Metals

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Antimony | 49.1 | 48.4 | 50 | 98 | 97 | 75-125 | 1.51 | 20 |
| Arsenic | 49.9 | 50.0 | 50 | 100 | 100 | 75-125 | 0.346 | 20 |
| Barium | 499 | 486 | 500 | 100 | 97 | 75-125 | 2.61 | 20 |
| Beryllium | 50.4 | 50.3 | 50 | 101 | 101 | 75-125 | 0.334 | 20 |
| Cadmium | 48.9 | 48.5 | 50 | 98 | 97 | 75-125 | 0.721 | 20 |
| Chromium | 47.7 | 48.0 | 50 | 95 | 96 | 75-125 | 0.650 | 20 |
| Cobalt | 50.4 | 50.4 | 50 | 101 | 101 | 75-125 | 0.0397 | 20 |
| Copper | 49.1 | 49.2 | 50 | 98 | 98 | 75-125 | 0.368 | 20 |
| Lead | 48.1 | 48.4 | 50 | 96 | 97 | 75-125 | 0.550 | 20 |
| Mercury | 1.18 | 1.21 | 1.25 | 94 | 97 | 75-125 | 2.77 | 20 |
| Molybdenum | 48.9 | 48.5 | 50 | 98 | 97 | 75-125 | 0.910 | 20 |
| Nickel | 48.7 | 49.3 | 50 | 97 | 99 | 75-125 | 1.27 | 20 |
| Selenium | 47.6 | 48.5 | 50 | 95 | 97 | 75-125 | 1.99 | 20 |
| Silver | 48.6 | 47.6 | 50 | 97 | 95 | 75-125 | 2.17 | 20 |
| Thallium | 50.1 | 49.3 | 50 | 100 | 99 | 75-125 | 1.63 | 20 |
| Vanadium | 48.3 | 48.1 | 50 | 97 | 96 | 75-125 | 0.440 | 20 |
| Zinc | 488 | 492 | 500 | 97 | 98 | 75-125 | 0.893 | 20 |
| **Surrogate Recovery** | | | | | | | | |
| Terbium | 526 | 522 | 500 | 105 | 104 | 70-130 | 0.741 | 20 |

| Analyte | MS DF | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 1 | 47.9 | 49.6 | 50 | ND | 96 | 99 | 75-125 | 3.58 | 20 |
| Arsenic | 1 | 51.9 | 51.3 | 50 | 0.9020 | 102 | 101 | 75-125 | 1.21 | 20 |
| Barium | 1 | 524 | 524 | 500 | 23.04 | 100 | 100 | 75-125 | 0.0250 | 20 |
| Beryllium | 1 | 51.6 | 49.2 | 50 | ND | 103 | 98 | 75-125 | 4.59 | 20 |
| Cadmium | 1 | 49.8 | 49.4 | 50 | ND | 99 | 98 | 75-125 | 0.766 | 20 |
| Chromium | 1 | 55.3 | 55.8 | 50 | 5.978 | 99 | 100 | 75-125 | 0.877 | 20 |
| Cobalt | 1 | 51.7 | 51.3 | 50 | ND | 102 | 102 | 75-125 | 0.687 | 20 |
| Copper | 1 | 52.7 | 52.2 | 50 | 2.776 | 100 | 99 | 75-125 | 0.923 | 20 |
| Lead | 1 | 52.7 | 53.6 | 50 | 2.512 | 100 | 102 | 75-125 | 1.81 | 20 |
| Mercury | 1 | 1.38 | 1.40 | 1.25 | 0.1880 | 95 | 97 | 75-125 | 2.09 | 20 |
| Molybdenum | 1 | 48.4 | 49.4 | 50 | ND | 96 | 98 | 75-125 | 2.12 | 20 |
| Nickel | 1 | 53.6 | 52.6 | 50 | 2.992 | 101 | 99 | 75-125 | 1.88 | 20 |
| Selenium | 1 | 49.5 | 48.9 | 50 | 0.6090 | 98 | 97 | 75-125 | 1.12 | 20 |
| Silver | 1 | 49.4 | 49.0 | 50 | ND | 99 | 98 | 75-125 | 0.768 | 20 |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Prepared:** | 08/12/2021 | **BatchID:** | 227443 |
| **Date Analyzed:** | 08/12/2021 | **Extraction Method:** | SW3050B |
| **Instrument:** | ICP-MS5 | **Analytical Method:** | SW6020 |
| **Matrix:** | Soil | **Unit:** | mg/kg |
| **Project:** | 1690021780; Valley Gardens | **Sample ID:** | MB/LCS/LCSD-227443<br>2108589-009AMS/MSD |

## QC Summary Report for Metals

| Analyte | MS DF | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Thallium | 1 | 50.8 | 50.8 | 50 | ND | 102 | 102 | 75-125 | 0.0138 | 20 |
| Vanadium | 1 | 54.3 | 54.8 | 50 | 4.897 | 99 | 100 | 75-125 | 0.855 | 20 |
| Zinc | 1 | 515 | 509 | 500 | 14.47 | 100 | 99 | 75-125 | 1.07 | 20 |
| **Surrogate Recovery** | | | | | | | | | | |
| Terbium | 1 | 515 | 525 | 500 | | 103 | 105 | 70-130 | 2.01 | 20 |

| Analyte | DLT Result | DLTRef Val | %D | %D Limit |
|---|---|---|---|---|
| Antimony | ND<2.50 | ND | - | - |
| Arsenic | ND<2.50 | 0.9020 | - | - |
| Barium | ND<25.0 | 23.04 | - | - |
| Beryllium | ND<2.50 | ND | - | - |
| Cadmium | ND<2.50 | ND | - | - |
| Chromium | 6.08 | 5.978 | 1.71 | - |
| Cobalt | ND<2.50 | ND | - | - |
| Copper | 2.88 | 2.776 | 3.75 | - |
| Lead | ND<2.50 | 2.512 | - | - |
| Mercury | ND<0.250 | 0.1880 | - | - |
| Molybdenum | ND<2.50 | ND | - | - |
| Nickel | 2.92 | 2.992 | 2.41 | - |
| Selenium | ND<2.50 | 0.6090 | - | - |
| Silver | ND<2.50 | ND | - | - |
| Thallium | ND<2.50 | ND | - | - |
| Vanadium | 4.88 | 4.897 | 0.347 | - |
| Zinc | ND<25.0 | 14.47 | - | - |

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Prepared:** | 08/12/2021 | **BatchID:** | 227536 |
| **Date Analyzed:** | 08/13/2021 | **Extraction Method:** | SW3050B |
| **Instrument:** | ICP-MS5 | **Analytical Method:** | SW6020 |
| **Matrix:** | Soil | **Unit:** | mg/kg |
| **Project:** | 1690021780; Valley Gardens | **Sample ID:** | MB/LCS/LCSD-227536<br>2108589-007AMS/MSD |

## QC Summary Report for Metals

| Analyte | MB Result | MDL | RL | SPK Val | MB SS %REC | MB SS Limits |
|---|---|---|---|---|---|---|
| Antimony | ND | 0.160 | 0.500 | - | - | - |
| Arsenic | ND | 0.150 | 0.500 | - | - | - |
| Barium | ND | 0.570 | 5.00 | - | - | - |
| Beryllium | ND | 0.0730 | 0.500 | - | - | - |
| Cadmium | ND | 0.0940 | 0.500 | - | - | - |
| Chromium | ND | 0.130 | 0.500 | - | - | - |
| Cobalt | ND | 0.0520 | 0.500 | - | - | - |
| Copper | ND | 0.180 | 0.500 | - | - | - |
| Lead | ND | 0.140 | 0.500 | - | - | - |
| Mercury | ND | 0.0320 | 0.0500 | - | - | - |
| Molybdenum | ND | 0.160 | 0.500 | - | - | - |
| Nickel | ND | 0.170 | 0.500 | - | - | - |
| Selenium | ND | 0.150 | 0.500 | - | - | - |
| Silver | ND | 0.120 | 0.500 | - | - | - |
| Thallium | ND | 0.0670 | 0.500 | - | - | - |
| Vanadium | ND | 0.130 | 0.500 | - | - | - |
| Zinc | ND | 3.00 | 5.00 | - | - | - |
| **Surrogate Recovery** | | | | | | |
| Terbium | 532 | | | 500 | 106 | 70-130 |

*(Cont.)*

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Prepared:** | 08/12/2021 | **BatchID:** | 227536 |
| **Date Analyzed:** | 08/13/2021 | **Extraction Method:** | SW3050B |
| **Instrument:** | ICP-MS5 | **Analytical Method:** | SW6020 |
| **Matrix:** | Soil | **Unit:** | mg/kg |
| **Project:** | 1690021780; Valley Gardens | **Sample ID:** | MB/LCS/LCSD-227536<br>2108589-007AMS/MSD |

## QC Summary Report for Metals

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Antimony | 50.0 | 49.2 | 50 | 100 | 98 | 75-125 | 1.67 | 20 |
| Arsenic | 50.7 | 51.3 | 50 | 101 | 103 | 75-125 | 1.19 | 20 |
| Barium | 499 | 488 | 500 | 100 | 98 | 75-125 | 2.17 | 20 |
| Beryllium | 50.4 | 49.5 | 50 | 101 | 99 | 75-125 | 1.95 | 20 |
| Cadmium | 50.4 | 49.1 | 50 | 101 | 98 | 75-125 | 2.61 | 20 |
| Chromium | 50.3 | 50.4 | 50 | 101 | 101 | 75-125 | 0.0417 | 20 |
| Cobalt | 50.0 | 49.1 | 50 | 100 | 98 | 75-125 | 1.77 | 20 |
| Copper | 50.2 | 50.7 | 50 | 100 | 101 | 75-125 | 0.920 | 20 |
| Lead | 49.8 | 50.0 | 50 | 100 | 100 | 75-125 | 0.381 | 20 |
| Mercury | 1.22 | 1.22 | 1.25 | 98 | 97 | 75-125 | 0.410 | 20 |
| Molybdenum | 48.1 | 47.7 | 50 | 96 | 95 | 75-125 | 0.866 | 20 |
| Nickel | 50.2 | 50.9 | 50 | 100 | 102 | 75-125 | 1.48 | 20 |
| Selenium | 49.8 | 50.8 | 50 | 100 | 102 | 75-125 | 2.03 | 20 |
| Silver | 48.2 | 48.0 | 50 | 96 | 96 | 75-125 | 0.408 | 20 |
| Thallium | 50.3 | 49.9 | 50 | 101 | 100 | 75-125 | 0.760 | 20 |
| Vanadium | 50.6 | 49.8 | 50 | 101 | 100 | 75-125 | 1.64 | 20 |
| Zinc | 502 | 500 | 500 | 100 | 100 | 75-125 | 0.263 | 20 |
| **Surrogate Recovery** | | | | | | | | |
| Terbium | 534 | 534 | 500 | 107 | 107 | 70-130 | 0.0671 | 20 |

| Analyte | MS DF | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 1 | 48.5 | 48.5 | 50 | ND | 97 | 97 | 75-125 | 0.0557 | 20 |
| Arsenic | 1 | 52.4 | 50.8 | 50 | 1.430 | 102 | 99 | 75-125 | 3.14 | 20 |
| Barium | 1 | 532 | 534 | 500 | 29.44 | 100 | 101 | 75-125 | 0.349 | 20 |
| Beryllium | 1 | 48.7 | 48.2 | 50 | ND | 97 | 96 | 75-125 | 1.08 | 20 |
| Cadmium | 1 | 50.1 | 48.3 | 50 | ND | 100 | 96 | 75-125 | 3.74 | 20 |
| Chromium | 1 | 59.5 | 58.1 | 50 | 8.588 | 102 | 99 | 75-125 | 2.28 | 20 |
| Cobalt | 1 | 49.4 | 48.5 | 50 | 0.8870 | 97 | 95 | 75-125 | 1.77 | 20 |
| Copper | 1 | 55.0 | 53.1 | 50 | 4.102 | 102 | 98 | 75-125 | 3.46 | 20 |
| Lead | 1 | 53.5 | 52.6 | 50 | 3.095 | 101 | 99 | 75-125 | 1.62 | 20 |
| Mercury | 1 | 1.74 | 1.74 | 1.25 | 0.9500 | 63,F10 | 63,F10 | 75-125 | 0.460 | 20 |
| Molybdenum | 1 | 48.1 | 47.5 | 50 | ND | 95 | 94 | 75-125 | 1.28 | 20 |
| Nickel | 1 | 56.8 | 55.4 | 50 | 4.913 | 104 | 101 | 75-125 | 2.45 | 20 |
| Selenium | 1 | 51.4 | 50.3 | 50 | 0.5430 | 102 | 100 | 75-125 | 2.08 | 20 |
| Silver | 1 | 47.7 | 47.2 | 50 | ND | 95 | 94 | 75-125 | 1.02 | 20 |

*(Cont.)*

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Prepared:** | 08/12/2021 | **BatchID:** | 227536 |
| **Date Analyzed:** | 08/13/2021 | **Extraction Method:** | SW3050B |
| **Instrument:** | ICP-MS5 | **Analytical Method:** | SW6020 |
| **Matrix:** | Soil | **Unit:** | mg/kg |
| **Project:** | 1690021780; Valley Gardens | **Sample ID:** | MB/LCS/LCSD-227536<br>2108589-007AMS/MSD |

## QC Summary Report for Metals

| Analyte | MS DF | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Thallium | 1 | 50.4 | 48.9 | 50 | ND | 101 | 98 | 75-125 | 3.14 | 20 |
| Vanadium | 1 | 60.4 | 57.6 | 50 | 7.373 | 106 | 100 | 75-125 | 4.72 | 20 |
| Zinc | 1 | 522 | 505 | 500 | 18.50 | 101 | 97 | 75-125 | 3.36 | 20 |
| **Surrogate Recovery** | | | | | | | | | | |
| Terbium | 1 | 538 | 527 | 500 | | 108 | 105 | 70-130 | 2.10 | 20 |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Prepared:** | 08/11/2021 | **BatchID:** | 227441 |
| **Date Analyzed:** | 08/11/2021 - 08/12/2021 | **Extraction Method:** | SW5035 |
| **Instrument:** | GC7 | **Analytical Method:** | SW8021B/8015Bm |
| **Matrix:** | Soil | **Unit:** | mg/Kg |
| **Project:** | 1690021780; Valley Gardens | **Sample ID:** | MB/LCS/LCSD-227441 |

## QC Summary Report for SW8021B/8015Bm

| Analyte | MB Result | MDL | RL | SPK Val | MB SS %REC | MB SS Limits |
|---|---|---|---|---|---|---|
| TPH(g) (C6-C12) | ND | 0.610 | 1.00 | - | - | - |
| MTBE | ND | 0.00340 | 0.0500 | - | - | - |
| Benzene | ND | 0.00190 | 0.00500 | - | - | - |
| Toluene | ND | 0.00240 | 0.00500 | - | - | - |
| Ethylbenzene | ND | 0.00170 | 0.00500 | - | - | - |
| m,p-Xylene | ND | 0.00260 | 0.0100 | - | - | - |
| o-Xylene | ND | 0.000910 | 0.00500 | - | - | - |
| **Surrogate Recovery** | | | | | | |
| 2-Fluorotoluene | 0.0862 | | | 0.1 | 86 | 75-134 |

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| TPH(btex) | 0.679 | 0.680 | 0.60 | 113 | 113 | 82-118 | 0.0751 | 20 |
| MTBE | 0.102 | 0.107 | 0.10 | 102 | 107 | 61-119 | 4.25 | 20 |
| Benzene | 0.0960 | 0.0939 | 0.10 | 96 | 94 | 77-128 | 2.19 | 20 |
| Toluene | 0.0997 | 0.101 | 0.10 | 100 | 101 | 74-132 | 0.904 | 20 |
| Ethylbenzene | 0.102 | 0.103 | 0.10 | 102 | 103 | 84-127 | 0.831 | 20 |
| m,p-Xylene | 0.210 | 0.209 | 0.20 | 105 | 105 | 80-120 | 0.505 | 20 |
| o-Xylene | 0.100 | 0.101 | 0.10 | 100 | 101 | 80-120 | 0.740 | 20 |
| **Surrogate Recovery** | | | | | | | | |
| 2-Fluorotoluene | 0.0851 | 0.0845 | 0.10 | 85 | 84 | 75-134 | 0.788 | 20 |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Prepared:** | 08/12/2021 | **BatchID:** | 227596 |
| **Date Analyzed:** | 08/12/2021 | **Extraction Method:** | SW5030B |
| **Instrument:** | GC12 | **Analytical Method:** | SW8021B/8015Bm |
| **Matrix:** | Water | **Unit:** | µg/L |
| **Project:** | 1690021780; Valley Gardens | **Sample ID:** | MB/LCS/LCSD-227596 |

## QC Summary Report for SW8021B/8015Bm

| Analyte | MB Result | MDL | RL | SPK Val | MB SS %REC | MB SS Limits |
|---|---|---|---|---|---|---|
| TPH(g) (C6-C12) | ND | 20.0 | 50.0 | - | - | - |
| MTBE | ND | 0.490 | 1.00 | - | - | - |
| Benzene | ND | 0.120 | 0.500 | - | - | - |
| Toluene | ND | 0.110 | 0.500 | - | - | - |
| Ethylbenzene | ND | 0.0950 | 0.500 | - | - | - |
| m,p-Xylene | ND | 0.140 | 1.00 | - | - | - |
| o-Xylene | ND | 0.0740 | 0.500 | - | - | - |
| **Surrogate Recovery** | | | | | | |
| aaa-TFT | 9.52 | | | 10 | 95 | 74-117 |

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| TPH(btex) | 59.5 | 63.8 | 60 | 99 | 106 | 78-116 | 6.98 | 20 |
| MTBE | 10.2 | 10.0 | 10 | 101 | 100 | 72-122 | 1.15 | 20 |
| Benzene | 11.6 | 11.3 | 10 | 115 | 113 | 81-123 | 2.49 | 20 |
| Toluene | 11.5 | 11.2 | 10 | 115 | 112 | 83-129 | 2.93 | 20 |
| Ethylbenzene | 12.0 | 11.7 | 10 | 120 | 117 | 88-126 | 2.51 | 20 |
| m,p-Xylene | 23.9 | 23.2 | 20 | 120 | 116 | 80-120 | 2.98 | 20 |
| o-Xylene | 11.8 | 11.4 | 10 | 118 | 114 | 80-120 | 2.95 | 20 |
| **Surrogate Recovery** | | | | | | | | |
| aaa-TFT | 9.56 | 9.58 | 10 | 96 | 96 | 74-117 | 0.243 | 20 |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Prepared:** | 08/11/2021 | **BatchID:** | 227440 |
| **Date Analyzed:** | 08/11/2021 - 08/12/2021 | **Extraction Method:** | SW3550B |
| **Instrument:** | GC6A, GC9b | **Analytical Method:** | SW8015B |
| **Matrix:** | Soil | **Unit:** | mg/Kg |
| **Project:** | 1690021780; Valley Gardens | **Sample ID:** | MB/LCS/LCSD-227440 |

## QC Report for SW8015B w/out SG Clean-Up

| Analyte | MB Result | MDL | RL | SPK Val | MB SS %REC | MB SS Limits |
|---|---|---|---|---|---|---|
| TPH-Diesel (C10-C23) | ND | 0.750 | 1.00 | - | - | - |
| TPH-Motor Oil (C18-C36) | ND | 3.90 | 5.00 | - | - | - |
| **Surrogate Recovery** | | | | | | |
| C9 | 21.9 | | | 25 | 88 | 70-130 |

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| TPH-Diesel (C10-C23) | 37.0 | 37.4 | 40 | 92 | 94 | 70-130 | 1.30 | 20 |
| **Surrogate Recovery** | | | | | | | | |
| C9 | 23.0 | 23.2 | 25 | 92 | 93 | 70-130 | 0.965 | 20 |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Prepared:** | 08/11/2021 | **BatchID:** | 227426 |
| **Date Analyzed:** | 08/12/2021 | **Extraction Method:** | SW3510C |
| **Instrument:** | GC6A | **Analytical Method:** | SW8015B |
| **Matrix:** | Water | **Unit:** | µg/L |
| **Project:** | 1690021780; Valley Gardens | **Sample ID:** | MB/LCS/LCSD-227426 |

## QC Report for SW8015B w/out SG Clean-Up

| Analyte | MB Result | MDL | RL | SPK Val | MB SS %REC | MB SS Limits |
|---|---|---|---|---|---|---|
| TPH-Diesel (C10-C23) | ND | 30.0 | 50.0 | - | - | - |
| TPH-Motor Oil (C18-C36) | ND | 120 | 250 | - | - | - |
| **Surrogate Recovery** | | | | | | |
| C9 | 604 | | | 625 | 97 | 70-130 |

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| TPH-Diesel (C10-C23) | 1080 | 1090 | 1000 | 108 | 109 | 70-130 | 1.24 | 20 |
| **Surrogate Recovery** | | | | | | | | |
| C9 | 635 | 653 | 625 | 102 | 104 | 70-130 | 2.83 | 20 |

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# CHAIN-OF-CUSTODY RECORD



**WorkOrder: 2108589** **ClientCode: ENVE** **QuoteID: 213046**

☐ WaterTrax ☐ WriteOn ☐ EDF ☑ EQuIS ☐ Dry-Weight ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Excel

**Report to:**
Zoe Pfahler
Ramboll
2200 Powell Street, 7th Floor
Emeryville, CA 94608
(510) 655-7400 FAX: (510) 655-9517

Email: zpfahler@ramboll.com
cc/3rd Party: twinger@ramboll.com; jpkane@ramboll.co
PO:
Project: 1690021780; Valley Gardens

**Bill to:**
Ramboll
2200 Powell Street, 7th Floor
Emeryville, CA 94608
US169_vendor@ramboll.com

**Requested TAT:** 5 days;

***Date Received:*** **08/11/2021**
***Date Logged:*** **08/11/2021**

| Lab ID | Client ID | Matrix | Collection Date | Hold | Requested Tests (See legend below) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 2108589-001 | SB01-1.0 | Soil | 8/9/2021 09:25 | ☐ | | A | | | A | | A | | A | | | |
| 2108589-002 | SB01-3.0 | Soil | 8/9/2021 09:27 | ☑ | | | | | | | A | A | | | | |
| 2108589-003 | SB02-0.5 | Soil | 8/9/2021 09:40 | ☐ | A | | | A | | | A | | | | | |
| 2108589-004 | SB02-2.0 | Soil | 8/9/2021 09:42 | ☑ | | | | | | | A | A | | | | |
| 2108589-005 | SB03-0.5 | Soil | 8/9/2021 09:58 | ☐ | A | | | A | | | A | | | | | |
| 2108589-006 | SB03-2.0 | Soil | 8/9/2021 10:00 | ☑ | | | | | | | A | A | | | | |
| 2108589-007 | SB04-0.5 | Soil | 8/9/2021 10:10 | ☐ | A | | | A | | | A | | | | | |
| 2108589-008 | SB04-2.0 | Soil | 8/9/2021 10:12 | ☑ | | | | | | | A | A | | | | |
| 2108589-009 | SB05-0.5 | Soil | 8/9/2021 10:30 | ☐ | A | | | A | | | A | | | | | |
| 2108589-010 | SB05-2.0 | Soil | 8/9/2021 10:32 | ☑ | | | | | | | A | A | | | | |
| 2108589-011 | SB06-0.5 | Soil | 8/9/2021 11:15 | ☐ | A | | | A | | | A | | | | | |
| 2108589-012 | SB06-2.0 | Soil | 8/9/2021 11:17 | ☑ | | | | | | | A | A | | | | |
| 2108589-013 | SB10-0.5 | Soil | 8/9/2021 11:45 | ☐ | A | | | A | | | A | | | | | |
| 2108589-014 | SB10-2.0 | Soil | 8/9/2021 11:47 | ☑ | | | | | | | A | A | | | | |
| 2108589-015 | SB08-0.5 | Soil | 8/9/2021 12:15 | ☐ | A | | | A | | | A | | | | | |

**Test Legend:**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | 8081PCB_S | 2 | 8260B_S | 3 | 8260B_W | 4 | CAM17MS_TTLC_S |
| 5 | G-MBTEX_S | 6 | G-MBTEX_W | 7 | PRDisposal Fee | 8 | PRHOLD |
| 9 | TPH(DMO)_S | 10 | TPH(DMO)_W | 11 | | 12 | |

**Project Manager: Rosa Venegas** **Prepared by: Valerie Alfaro**

The following SampID: 001A contains testgroup Multi Range_S.; The following SampID: 023A contains testgroup Multi Range_W.

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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# CHAIN-OF-CUSTODY RECORD



**WorkOrder: 2108589** **ClientCode: ENVE** **QuoteID: 213046**

☐ WaterTrax ☐ WriteOn ☐ EDF ☑ EQuIS ☐ Dry-Weight ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Excel

**Report to:**
Zoe Pfahler
Ramboll
2200 Powell Street, 7th Floor
Emeryville, CA 94608
(510) 655-7400 FAX: (510) 655-9517

Email: zpfahler@ramboll.com
cc/3rd Party: twinger@ramboll.com; jpkane@ramboll.co
PO:
Project: 1690021780; Valley Gardens

**Bill to:**
Ramboll
2200 Powell Street, 7th Floor
Emeryville, CA 94608
US169_vendor@ramboll.com

**Requested TAT:** 5 days;

***Date Received:*** **08/11/2021**
***Date Logged:*** **08/11/2021**

| Lab ID | Client ID | Matrix | Collection Date | Hold | Requested Tests (See legend below) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 2108589-016 | SB08-2.0 | Soil | 8/9/2021 12:17 | ☑ | | | | | | | A | A | | | | |
| 2108589-017 | SB07-0.5 | Soil | 8/9/2021 12:20 | ☐ | A | | | A | | | A | | | | | |
| 2108589-018 | SB07-2.0 | Soil | 8/9/2021 12:22 | ☑ | | | | | | | A | A | | | | |
| 2108589-019 | SB11-0.5 | Soil | 8/9/2021 16:30 | ☐ | A | | | A | | | A | | | | | |
| 2108589-020 | SB11-2.0 | Soil | 8/9/2021 16:32 | ☑ | | | | | | | A | A | | | | |
| 2108589-021 | SB09-0.5 | Soil | 8/9/2021 16:40 | ☐ | A | | | A | | | A | | | | | |
| 2108589-022 | SB09-2.0 | Soil | 8/9/2021 16:42 | ☑ | | | | | | | A | A | | | | |
| 2108589-023 | IW-01-20210810 | Water | 8/10/2021 12:25 | ☐ | | | B | | | A | A | | | A | | |

**Test Legend:**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | 8081PCB_S | 2 | 8260B_S | 3 | 8260B_W | 4 | CAM17MS_TTLC_S |
| 5 | G-MBTEX_S | 6 | G-MBTEX_W | 7 | PRDisposal Fee | 8 | PRHOLD |
| 9 | TPH(DMO)_S | 10 | TPH(DMO)_W | 11 | | 12 | |

**Project Manager: Rosa Venegas** **Prepared by: Valerie Alfaro**

The following SampID: 001A contains testgroup Multi Range_S.; The following SampID: 023A contains testgroup Multi Range_W.

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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# WORK ORDER SUMMARY

**Client Name:** RAMBOLL **Project:** 1690021780; Valley Gardens **Work Order:** 2108589
**Client Contact:** Zoe Pfahler **QC Level:**
**Contact's Email:** zpfahler@ramboll.com **Comments:** **Date Logged:** 8/11/2021

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☑ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

| LabID | ClientSampID | Matrix | Test Name | Containers /Composites | Bottle & Preservative | Head Space | Dry-Weight | Collection Date & Time | TAT | Test Due Date | Sediment Content | Hold | SubOut |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001A | SB01-1.0 | Soil | Multi-Range TPH | 1 | 16OZ GJ, Unpres | ☐ | ☐ | 8/9/2021 9:25 | 5 days | 8/18/2021 | | ☐ | |
| | | | SW8260B (VOCs) | | | ☐ | ☐ | | 5 days | 8/18/2021 | | ☐ | |
| 003A | SB02-0.5 | Soil | SW6020 (CAM 17) | 1 | 16OZ GJ, Unpres | ☐ | ☐ | 8/9/2021 9:40 | 5 days | 8/18/2021 | | ☐ | |
| | | | SW8081A/8082 (OC Pesticides+PCBs) | | | ☐ | ☐ | | 5 days | 8/18/2021 | | ☐ | |
| 005A | SB03-0.5 | Soil | SW6020 (CAM 17) | 1 | 16OZ GJ, Unpres | ☐ | ☐ | 8/9/2021 9:58 | 5 days | 8/18/2021 | | ☐ | |
| | | | SW8081A/8082 (OC Pesticides+PCBs) | | | ☐ | ☐ | | 5 days | 8/18/2021 | | ☐ | |
| 007A | SB04-0.5 | Soil | SW6020 (CAM 17) | 1 | 16OZ GJ, Unpres | ☐ | ☐ | 8/9/2021 10:10 | 5 days | 8/18/2021 | | ☐ | |
| | | | SW8081A/8082 (OC Pesticides+PCBs) | | | ☐ | ☐ | | 5 days | 8/18/2021 | | ☐ | |
| 009A | SB05-0.5 | Soil | SW6020 (CAM 17) | 1 | 16OZ GJ, Unpres | ☐ | ☐ | 8/9/2021 10:30 | 5 days | 8/18/2021 | | ☐ | |
| | | | SW8081A/8082 (OC Pesticides+PCBs) | | | ☐ | ☐ | | 5 days | 8/18/2021 | | ☐ | |
| 011A | SB06-0.5 | Soil | SW6020 (CAM 17) | 1 | 16OZ GJ, Unpres | ☐ | ☐ | 8/9/2021 11:15 | 5 days | 8/18/2021 | | ☐ | |
| | | | SW8081A/8082 (OC Pesticides+PCBs) | | | ☐ | ☐ | | 5 days | 8/18/2021 | | ☐ | |
| 013A | SB10-0.5 | Soil | SW6020 (CAM 17) | 1 | 16OZ GJ, Unpres | ☐ | ☐ | 8/9/2021 11:45 | 5 days | 8/18/2021 | | ☐ | |
| | | | SW8081A/8082 (OC Pesticides+PCBs) | | | ☐ | ☐ | | 5 days | 8/18/2021 | | ☐ | |
| 015A | SB08-0.5 | Soil | SW6020 (CAM 17) | 1 | 16OZ GJ, Unpres | ☐ | ☐ | 8/9/2021 12:15 | 5 days | 8/18/2021 | | ☐ | |
| | | | SW8081A/8082 (OC Pesticides+PCBs) | | | ☐ | ☐ | | 5 days | 8/18/2021 | | ☐ | |

**NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**

**- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.**

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# WORK ORDER SUMMARY

**Client Name:** RAMBOLL **Project:** 1690021780; Valley Gardens **Work Order:** 2108589
**Client Contact:** Zoe Pfahler **QC Level:**
**Contact's Email:** zpfahler@ramboll.com **Comments:** **Date Logged:** 8/11/2021

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☑ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

| LabID | ClientSampID | Matrix | Test Name | Containers /Composites | Bottle & Preservative | Head Space | Dry-Weight | Collection Date & Time | TAT | Test Due Date | Sediment Content | Hold | SubOut |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 017A | SB07-0.5 | Soil | SW6020 (CAM 17) | 1 | 16OZ GJ, Unpres | ☐ | ☐ | 8/9/2021 12:20 | 5 days | 8/18/2021 | | ☐ | |
| | | | SW8081A/8082 (OC Pesticides+PCBs) | | | ☐ | ☐ | | 5 days | 8/18/2021 | | ☐ | |
| 019A | SB11-0.5 | Soil | SW6020 (CAM 17) | 1 | 16OZ GJ, Unpres | ☐ | ☐ | 8/9/2021 16:30 | 5 days | 8/18/2021 | | ☐ | |
| | | | SW8081A/8082 (OC Pesticides+PCBs) | | | ☐ | ☐ | | 5 days | 8/18/2021 | | ☐ | |
| 021A | SB09-0.5 | Soil | SW6020 (CAM 17) | 1 | 16OZ GJ, Unpres | ☐ | ☐ | 8/9/2021 16:40 | 5 days | 8/18/2021 | | ☐ | |
| | | | SW8081A/8082 (OC Pesticides+PCBs) | | | ☐ | ☐ | | 5 days | 8/18/2021 | | ☐ | |
| 023A | IW-01-20210810 | Water | Multi-Range TPH | 4 | 2 VOAs w/HCL + 2-aVOAs (multi-range) | ☐ | ☐ | 8/10/2021 12:25 | 5 days | 8/18/2021 | 1%+ | ☐ | |
| 023B | IW-01-20210810 | Water | SW8260B (VOCs) | 2 | VOA w/ HCl | ☐ | ☐ | 8/10/2021 12:25 | 5 days | 8/18/2021 | 1%+ | ☐ | |

**NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**

**- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.**

2108589

RAMBOLL

# CHAIN-of-CUSTODY



PROJECT NAME / FACILITY ID: Valley Gardens — FIELD PERSON: Z. Pfahler

PROJECT NUMBER: 1690021780 — DATE: 8-10-21 — PROJECT MANAGER: J. Kane

PROJECT LOCATION: Scotts Valley, CA — LABORATORY: McCampbell

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #: _____ WO#: _____

SAMPLER: Z. Pfahler

SIGNATURE:

| SAMPLE I.D. NUMBER | YEAR 2021 SAMPLE DATE | SAMPLE TIME | SAMPLE DEPTH | MATRIX (S) SOIL (G) GAS (W) WATER | NUMBER OF CONTAINERS | FILTERED/UNFILTERED (F/U) | PRESERVATION (SEE KEY) | ANALYSIS REQUIRED: CAM 17 Metals (6010) | OCPs & PCBs (8081A / 8082) | TPH-g, d, mo (8015) | VOCs (8260) | Hold | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SB01-1.0 | 8.9 | 0925 | 1.0 | S | 1 | U | no | | | X | X | | report results to: |
| SB01-3.0 | | 0927 | 3.0 | | | | | | | | | X | ZPfahler |
| SB02-0.5 | | 0940 | 0.5 | | | | | X | X | | | | twinger @ramball.com |
| SB02-2.0 | | 0942 | 2.0 | | | | | | | | | X | JPrane |
| SB03-0.5 | | 0958 | 0.5 | | | | | X | X | | | | |
| SB03-2.0 | | 1000 | 2.0 | | | | | | | | | X | |
| SB04-0.5 | | 1010 | 0.5 | | | | | X | X | | | | |
| SB04-2.0 | | 1012 | 2.0 | | | | | | | | | X | |
| SB05-0.5 | | 1030 | 0.5 | | | | | X | X | | | | |
| SB05-2.0 | 8.9 | 1032 | 2.0 | S | 1 | U | no | | | | | X | |
| TOTAL | X | X | X | | | | | | | | | | |

| RELINQUISHED BY: | TIME/DATE: | RECEIVED BY: (COMPANY): | TIME/DATE: |
|---|---|---|---|
| | 1304 8-11-21 | | 1306 8/11/21 |
| | 1516 8/11/21 | | 1518 8/11/21 |
| | | | |

TURNAROUND TIME (CIRCLE ONE): SAMEDAY / 24 HOURS / 48 HOURS / 72 HOURS / 5 DAYS / NORMAL

SAMPLE INTEGRITY — INTACT: Y N Temp 2.6 °C wet

IF SEALED, SEAL INTEGRITY — INTACT: Y N

H = HCL; N = HNO3; S = H2SO4; U = UNKNOWN; NO = NONE; O = OTHER

2108589

RAMBOLL

# CHAIN-of-CUSTODY



PROJECT NAME / FACILITY ID: Valley Gardens — FIELD PERSON: Z. Pfahler

PROJECT NUMBER: 1690021780 — DATE: 8.10.21 — PROJECT MANAGER: J. Kane

PROJECT LOCATION: Scotts Valley — LABORATORY: McCampbell

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #: _____ WO#: _____

SAMPLER: Z. Pfahler

SIGNATURE:

| SAMPLE I.D. NUMBER | YEAR 2021 SAMPLE DATE | SAMPLE TIME | SAMPLE DEPTH | MATRIX (S) SOIL (G) GAS (W) WATER | NUMBER OF CONTAINERS | FILTERED/UNFILTERED (F/U) | PRESERVATION (SEE KEY) | ANALYSIS REQUIRED (AMTF Metals (6010) OCPs & PCBs (8081A/8082) hold | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|
| SB06-0.5 | 8.9 | 1115 | 0.5 | S | 1 | U | no | X X | see previous pg |
| SB06-2.0 | | 1117 | 2.0 | | | | | X | |
| SB10-0.5 | | 1145 | 0.5 | | | | | X X | |
| SB10-2.0 | | 1147 | 2.0 | | | | | X | |
| SB08-0.5 | | 1215 | 0.5 | | | | | X X | |
| SB08-2.0 | | 1217 | 2.0 | | | | | X | |
| SB07-0.5 | | 1220 | 0.5 | | | | | X X | |
| SB07-2.0 | | 1222 | 2.0 | | | | | X | |
| SB11-0.5 | | 1630 | 0.5 | | | | | X X | |
| SB11-2.0 | 8.9 | 1632 | 2.0 | S | 1 | U | no | X | |
| TOTAL | X | X | X | | | | | | |

| RELINQUISHED BY: | TIME/DATE: | RECEIVED BY: (COMPANY): | TIME/DATE: |
|---|---|---|---|
| | 1304 8.11.21 | MAW/MAZ | 1304 8/11/21 |
| MAW/MAZ | 1518 8/11/21 | Vicki Qin | 1518 8/11/21 |
| | | | |

TURNAROUND TIME (CIRCLE ONE): SAMEDAY, 24 HOURS, 48 HOURS, 72 HOURS, 5 DAYS, NORMAL

SAMPLE INTEGRITY — INTACT: Y N Temp_____

IF SEALED, SEAL INTEGRITY — INTACT: Y N

H = HCL; N = $HNO_3$; S = $H_2SO_4$; U = UNKNOWN; NO = NONE; O = OTHER

2108589

RAMBOLL

# CHAIN-of-CUSTODY



PROJECT NAME / FACILITY ID: Valley Gardens — FIELD PERSON: Z. Pfahler

PROJECT NUMBER: 1690021780 — DATE: 8.10.21 — PROJECT MANAGER: J. Kane

PROJECT LOCATION: Scotts Valley, CA — LABORATORY: McCampbell

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #: _____ WO#: _____

SAMPLER: Z. Pfahler

SIGNATURE: [signature]

| SAMPLE I.D. NUMBER | YEAR 2021 SAMPLE DATE | SAMPLE TIME | SAMPLE DEPTH | MATRIX (S) SOIL (G) GAS (W) WATER | NUMBER OF CONTAINERS | FILTERED/UNFILTERED (F/U) | PRESERVATION (SEE KEY) | ANALYSIS REQUIRED: CAM 17 Metals | OCP/PCB | VOCs | TPH-g/d/mo | Hold | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SB09-0.5 | 8.9 | 1640 | 0.5 | S | 1 | U | no | X | X | | | | See previous pg |
| SB09-2.0 | 8.9 | 1642 | 2.0 | S | 1 | U | no | | | | | X | |
| #1 IW-01-20210810 | 8.10 | 1225 | - | W | 6 | U | H | | | X | X | | |
| TOTAL | X | X | X | | | | | | | | | | |

| RELINQUISHED BY: | TIME/DATE: | RECEIVED BY: | TIME/DATE: |
|---|---|---|---|
| [signature] | 1304 8.11.21 | (COMPANY): MAI | 1306 8/11/21 |
| [signature] | 1518 8/11/21 | (COMPANY): | 1518 8/11/21 |
| | | (COMPANY): | |

TURNAROUND TIME (CIRCLE ONE): SAMEDAY / 24 HOURS / 48 HOURS / 72 HOURS / 5 DAYS / NORMAL

SAMPLE INTEGRITY — INTACT: Y N Temp_____

IF SEALED, SEAL INTEGRITY — INTACT: Y N

H = HCL; N = $HNO_3$; S = $H_2SO_4$; U = UNKNOWN; NO = NONE; O = OTHER

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# Sample Receipt Checklist

Client Name: **Ramboll**
Project: **1690021780; Valley Gardens**

WorkOrder №: **2108589** Matrix: Soil/Water
Carrier: Antonio Mason (MAI Courier)

Date and Time Received: **8/11/2021 15:18**
Date Logged: **8/11/2021**
Received by: Valerie Alfaro
Logged by: Valerie Alfaro

## Chain of Custody (COC) Information

| | | | |
|---|---|---|---|
| Chain of custody present? | Yes ☑ | No ☐ | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | |
| Sample IDs noted by Client on COC? | Yes ☑ | No ☐ | |
| Date and Time of collection noted by Client on COC? | Yes ☑ | No ☐ | |
| Sampler's name noted on COC? | Yes ☑ | No ☐ | |
| COC agrees with Quote? | Yes ☑ | No ☐ | NA ☐ |

## Sample Receipt Information

| | | | |
|---|---|---|---|
| Custody seals intact on shipping container/cooler? | Yes ☐ | No ☐ | NA ☑ |
| Custody seals intact on sample bottles? | Yes ☐ | No ☐ | NA ☑ |
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | |
| Samples in proper containers/bottles? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |

## Sample Preservation and Hold Time (HT) Information

| | | | |
|---|---|---|---|
| All samples received within holding time? | Yes ☑ | No ☐ | NA ☐ |
| Samples Received on Ice? | Yes ☑ | No ☐ | |
| (Ice Type: WET ICE ) | | | |
| Sample/Temp Blank temperature | Temp: 2.6°C | | NA ☐ |
| ZHS conditional analyses: VOA meets zero headspace requirement (VOCs, TPHg/BTEX, RSK)? | Yes ☑ | No ☐ | NA ☐ |
| Sample labels checked for correct preservation? | Yes ☑ | No ☐ | |
| pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)? | Yes ☐ | No ☐ | NA ☑ |
| UCMR Samples: | | | |
| pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)? | Yes ☐ | No ☐ | NA ☑ |
| Free Chlorine tested and acceptable upon receipt (<0.1mg/L)? | Yes ☐ | No ☐ | NA ☑ |

Comments:

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# Analytical Report

**WorkOrder:** 2108589 A

**Report Created for:** Ramboll

2200 Powell Street, 7th Floor
Emeryville, CA 94608

**Project Contact:** Jason Kane
**Project P.O.:**
**Project:** 1690021780; Valley Gardens

**Project Received:** 08/11/2021

Analytical Report reviewed & approved for release on 08/25/2021 by:

Christine Askari
Project Manager

***The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in a case narrative.***

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# Glossary of Terms & Qualifier Definitions

**Client:** Ramboll
**Project:** 1690021780; Valley Gardens
**WorkOrder:** 2108589 A

## Glossary Abbreviation

| | |
|---|---|
| %D | Serial Dilution Percent Difference |
| 95% Interval | 95% Confident Interval |
| CPT | Consumer Product Testing not NELAP Accredited |
| DF | Dilution Factor |
| DI WET | (DISTLC) Waste Extraction Test using DI water |
| DISS | Dissolved (direct analysis of 0.45 µm filtered and acidified water sample) |
| DLT | Dilution Test (Serial Dilution) |
| DUP | Duplicate |
| EDL | Estimated Detection Limit |
| ERS | External reference sample. Second source calibration verification. |
| ITEF | International Toxicity Equivalence Factor |
| LCS | Laboratory Control Sample |
| LQL | Lowest Quantitation Level |
| MB | Method Blank |
| MB % Rec | % Recovery of Surrogate in Method Blank, if applicable |
| MDL | Method Detection Limit |
| ML | Minimum Level of Quantitation |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| N/A | Not Applicable |
| ND | Not detected at or above the indicated MDL or RL |
| NR | Data Not Reported due to matrix interference or insufficient sample amount. |
| PDS | Post Digestion Spike |
| PDSD | Post Digestion Spike Duplicate |
| PF | Prep Factor |
| RD | Relative Difference |
| RL | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.) |
| RPD | Relative Percent Deviation |
| RRT | Relative Retention Time |
| SPK Val | Spike Value |
| SPKRef Val | Spike Reference Value |
| SPLP | Synthetic Precipitation Leachate Procedure |
| ST | Sorbent Tube |
| TCLP | Toxicity Characteristic Leachate Procedure |
| TEQ | Toxicity Equivalents |
| TZA | TimeZone Net Adjustment for sample collected outside of MAI's UTC. |
| WET (STLC) | Waste Extraction Test (Soluble Threshold Limit Concentration) |

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Received:** | 08/11/2021 15:18 | **Extraction Method:** | SW3550B |
| **Date Prepared:** | 08/20/2021 | **Analytical Method:** | SW8081A |
| **Project:** | 1690021780; Valley Gardens | **Unit:** | mg/kg |

## Organochlorine Pesticides

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| **SB04-2.0** | **2108589-008A** | **Soil** | **08/09/2021 10:12** | **GC40 08202155.d** | **228094** |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Chlordane (Technical) | **0.13** | 0.025 | 1 | 08/20/2021 23:21 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 96 | 60-130 | 08/20/2021 23:21 |

Analyst(s): CN

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Prepared:** | 08/20/2021 | **BatchID:** | 228094 |
| **Date Analyzed:** | 08/21/2021 | **Extraction Method:** | SW3550B |
| **Instrument:** | GC20, GC40 | **Analytical Method:** | SW8081A |
| **Matrix:** | Soil | **Unit:** | mg/kg |
| **Project:** | 1690021780; Valley Gardens | **Sample ID:** | MB/LCS/LCSD-228094<br>2108589-008AMS/MSD |

## QC Summary Report for SW8081A

| Analyte | MB Result | MDL | RL | SPK Val | MB SS %REC | MB SS Limits |
|---|---|---|---|---|---|---|
| Aldrin | ND | 0.000120 | 0.00100 | - | - | - |
| a-BHC | ND | 0.000270 | 0.00100 | - | - | - |
| b-BHC | ND | 0.0000920 | 0.00100 | - | - | - |
| d-BHC | ND | 0.000150 | 0.00100 | - | - | - |
| g-BHC | ND | 0.000140 | 0.00100 | - | - | - |
| Chlordane (Technical) | ND | 0.00250 | 0.0250 | - | - | - |
| a-Chlordane | ND | 0.000120 | 0.00100 | - | - | - |
| g-Chlordane | ND | 0.0000990 | 0.00100 | - | - | - |
| p,p-DDD | ND | 0.000150 | 0.00100 | - | - | - |
| p,p-DDE | ND | 0.000140 | 0.00100 | - | - | - |
| p,p-DDT | ND | 0.000200 | 0.00100 | - | - | - |
| Dieldrin | ND | 0.000120 | 0.00100 | - | - | - |
| Endosulfan I | ND | 0.000130 | 0.00100 | - | - | - |
| Endosulfan II | ND | 0.000130 | 0.00100 | - | - | - |
| Endosulfan sulfate | ND | 0.000130 | 0.00100 | - | - | - |
| Endrin | ND | 0.000100 | 0.00100 | - | - | - |
| Endrin aldehyde | ND | 0.000110 | 0.00100 | - | - | - |
| Endrin ketone | ND | 0.000140 | 0.00100 | - | - | - |
| Heptachlor | ND | 0.000170 | 0.00100 | - | - | - |
| Heptachlor epoxide | ND | 0.000110 | 0.00100 | - | - | - |
| Hexachlorobenzene | ND | 0.000290 | 0.0100 | - | - | - |
| Hexachlorocyclopentadiene | ND | 0.000360 | 0.0200 | - | - | - |
| Methoxychlor | ND | 0.000310 | 0.00100 | - | - | - |
| Toxaphene | ND | 0.0120 | 0.0500 | - | - | - |
| **Surrogate Recovery** | | | | | | |
| Decachlorobiphenyl | 0.0474 | | | 0.05 | 95 | 70-130 |

*(Cont.)*

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Ramboll | **WorkOrder:** | 2108589 |
| **Date Prepared:** | 08/20/2021 | **BatchID:** | 228094 |
| **Date Analyzed:** | 08/21/2021 | **Extraction Method:** | SW3550B |
| **Instrument:** | GC20, GC40 | **Analytical Method:** | SW8081A |
| **Matrix:** | Soil | **Unit:** | mg/kg |
| **Project:** | 1690021780; Valley Gardens | **Sample ID:** | MB/LCS/LCSD-228094<br>2108589-008AMS/MSD |

## QC Summary Report for SW8081A

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.0496 | 0.0496 | 0.050 | 99 | 99 | 70-130 | 0.0294 | 20 |
| a-BHC | 0.0541 | 0.0541 | 0.050 | 108 | 108 | 70-130 | 0.0497 | 20 |
| b-BHC | 0.0501 | 0.0497 | 0.050 | 100 | 99 | 70-130 | 0.826 | 20 |
| d-BHC | 0.0522 | 0.0521 | 0.050 | 104 | 104 | 70-130 | 0.244 | 20 |
| g-BHC | 0.0534 | 0.0535 | 0.050 | 107 | 107 | 70-130 | 0.0891 | 20 |
| a-Chlordane | 0.0474 | 0.0472 | 0.050 | 95 | 94 | 70-130 | 0.324 | 20 |
| g-Chlordane | 0.0515 | 0.0514 | 0.050 | 103 | 103 | 70-130 | 0.271 | 20 |
| p,p-DDD | 0.0579 | 0.0576 | 0.050 | 116 | 115 | 70-130 | 0.468 | 20 |
| p,p-DDE | 0.0534 | 0.0531 | 0.050 | 107 | 106 | 70-130 | 0.554 | 20 |
| p,p-DDT | 0.0588 | 0.0583 | 0.050 | 118 | 117 | 70-130 | 0.791 | 20 |
| Dieldrin | 0.0507 | 0.0504 | 0.050 | 101 | 101 | 70-130 | 0.592 | 20 |
| Endosulfan I | 0.0535 | 0.0534 | 0.050 | 107 | 107 | 70-130 | 0.107 | 20 |
| Endosulfan II | 0.0502 | 0.0501 | 0.050 | 100 | 100 | 70-130 | 0.204 | 20 |
| Endosulfan sulfate | 0.0479 | 0.0477 | 0.050 | 96 | 95 | 70-130 | 0.313 | 20 |
| Endrin | 0.0554 | 0.0552 | 0.050 | 111 | 110 | 70-130 | 0.365 | 20 |
| Endrin aldehyde | 0.0518 | 0.0516 | 0.050 | 103 | 103 | 70-130 | 0.234 | 20 |
| Endrin ketone | 0.0457 | 0.0456 | 0.050 | 91 | 91 | 70-130 | 0.266 | 20 |
| Heptachlor | 0.0567 | 0.0565 | 0.050 | 113 | 113 | 70-130 | 0.241 | 20 |
| Heptachlor epoxide | 0.0479 | 0.0477 | 0.050 | 96 | 95 | 70-130 | 0.281 | 20 |
| Hexachlorobenzene | 0.0453 | 0.0455 | 0.050 | 91 | 91 | 70-130 | 0.414 | 20 |
| Hexachlorocyclopentadiene | 0.0421 | 0.0431 | 0.050 | 84 | 86 | 50-130 | 2.24 | 20 |
| Methoxychlor | 0.0582 | 0.0576 | 0.050 | 116 | 115 | 70-130 | 0.948 | 20 |
| **Surrogate Recovery** | | | | | | | | |
| Decachlorobiphenyl | 0.0523 | 0.0516 | 0.050 | 105 | 103 | 70-130 | 1.51 | 20 |

| Analyte | MS DF | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| a-Chlordane | 1 | 0.0715 | 0.0684 | 0.050 | 0.0203 | 102 | 96 | 60-130 | 4.32 | 20 |
| g-Chlordane | 1 | 0.0706 | 0.0678 | 0.050 | 0.0118 | 118 | 112 | 60-130 | 4.14 | 20 |
| **Surrogate Recovery** | | | | | | | | | | |
| Decachlorobiphenyl | 1 | 0.0470 | 0.0476 | 0.050 | | 94 | 95 | 60-130 | 1.14 | 20 |

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD



**WorkOrder: 2108589 A** **ClientCode: ENVE** **QuoteID: 213046**

☐ WaterTrax ☐ WriteOn ☐ EDF ☑ EQuIS ☒ Dry-Weight ☑ Email ☐ HardCopy ☐ ThirdParty ☒ J-flag
☒ Detection Summary ☐ Excel

**Report to:**
Jason Kane
Ramboll
2200 Powell Street, 7th Floor
Emeryville, CA 94608
(510) 655-7400 FAX: (510) 655-9517

Email: jpkane@ramboll.com
cc/3rd Party: zpfahler@ramboll.com; twinger@ramboll.c
PO:
Project: 1690021780; Valley Gardens

**Bill to:**
Ramboll
2200 Powell Street, 7th Floor
Emeryville, CA 94608
US169_vendor@ramboll.com

**Requested TAT:** 5 days;

***Date Received:*** **08/11/2021**
***Date Logged:*** **08/11/2021**
***Date Add-On:*** **08/20/2021**

| Lab ID | Client ID | Matrix | Collection Date | Hold | Requested Tests (See legend below) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 2108589-008 | SB04-2.0 | Soil | 8/9/2021 10:12 | ☐ | A | | | | | | | | | | | |
| 2108589-018 | SB07-2.0 | Soil | 8/9/2021 12:22 | ☑ | | A | A | | | | | | | | | |

**Test Legend:**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | 8081_S | 2 | 8081PCB_S | 3 | PREXTFEE | 4 | |
| 5 | | 6 | | 7 | | 8 | |
| 9 | | 10 | | 11 | | 12 | |

**Project Manager: Rosa Venegas**

**Prepared by: Valerie Alfaro**

**Add-On Prepared By: Maria Venegas**

**Comments:** Chlordane added to 008 & Extract+HOLD OCPs+PCBs added to 018 8/20/21 STAT.

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
*"When Quality Counts"*

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

# WORK ORDER SUMMARY

**Client Name:** RAMBOLL
**Client Contact:** Jason Kane
**Contact's Email** jpkane@ramboll.com

**Project:** 1690021780; Valley Gardens
**Comments:** Chlordane added to 008 & Extract+HOLD OCPs+PCBs added to 018 8/20/21 STAT.

**Work Order:** 2108589
**QC Level:**
**Date Logged:** 8/11/2021
**Date Add-On:** 8/20/2021

| LabID | ClientSampID | Matrix | Test Name | Containers /Composites | Bottle & Preservative | Head Space | Dry-Weight | Collection Date & Time | TAT | Test Due Date | Sediment Content | Hold | SubOut |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 008A | SB04-2.0 | Soil | SW8081A (OC Pesticides) <Chlordane (Technical)_1> | 1 | 16OZ GJ, Unpres | ☐ | ☐ | 8/9/2021 10:12 | 5 days | 8/27/2021 | | ☐ | |
| 018A | SB07-2.0 | Soil | SW8081A/8082 (OC Pesticides+PCBs) | 1 | 16OZ GJ, Unpres | ☐ | ☐ | 8/9/2021 12:22 | 5 days | 8/27/2021 | | ☑ | |

**NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**

**- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.**

2108589

RAMBOLL

# CHAIN-of-CUSTODY



PROJECT NAME / FACILITY ID: Valley Gardens — FIELD PERSON: Z. Pfahler

PROJECT NUMBER: 1690021780 — DATE: 8-10-21 — PROJECT MANAGER: J. Keane

PROJECT LOCATION: Scotts Valley, CA — LABORATORY: McCampbell

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #: _____ WO#: _____

SAMPLER: Z. Pfahler

SIGNATURE:

| SAMPLE I.D. NUMBER | YEAR 2021 SAMPLE DATE | SAMPLE TIME | SAMPLE DEPTH | MATRIX (S) SOIL (G) GAS (W) WATER | NUMBER OF CONTAINERS | FILTERED/UNFILTERED (F/U) | PRESERVATION (SEE KEY) | ANALYSIS REQUIRED: CAM 17 Metals (6010) | OCPs & PCBs (8081A / 8082) | TPH - g, d, mo (8015) | VOCs (8260) | Hold | Chlordane | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SB01 - 1.0 | 8.9 | 0925 | 1.0 | S | 1 | U | no | | | X | X | | | | | Report results to: |
| SB01 - 3.0 | | 0927 | 3.0 | | | | | | | | | X | | | | ZPfahler@ |
| SB02 - 0.5 | | 0940 | 0.5 | | | | | X | X | | | | | | | twinger@ cramball.com |
| SB02 - 2.0 | | 0942 | 2.0 | | | | | | | | | X | | | | JPKane |
| SB03 - 0.5 | | 0958 | 0.5 | | | | | X | X | | | | | | | |
| SB03 - 2.0 | | 1000 | 2.0 | | | | | | | | | X | | | | |
| SB04 - 0.5 | | 1010 | 0.5 | | | | | X | X | | | | | | | |
| SB04 - 2.0 | | 1012 | 2.0 | | | | | | | | | X | X | | | |
| SB05 - 0.5 | | 1036 | 0.5 | | | | | X | X | | | | | | | |
| SB05 - 2.0 | 8.9 | 1032 | 2.0 | S | 1 | U | no | | | | | X | | | | |
| TOTAL | X | X | X | | | | | | | | | | | | | |

H = HCL; N = $HNO_3$; S = $H_2SO_4$; U = UNKNOWN; NO = NONE; O = OTHER

| RELINQUISHED BY: | TIME/DATE: | RECEIVED BY: (COMPANY): | TIME/DATE: |
|---|---|---|---|
| | 1304 8-11-21 | | 1306 8/11/21 |
| | 1518 8/11/21 | | 1518 8/11/21 |
| | | | |

TURNAROUND TIME (CIRCLE ONE): SAMEDAY, 24 HOURS, 48 HOURS, 72 HOURS, 5 DAYS, NORMAL

SAMPLE INTEGRITY — INTACT: Y N Temp 2.6 °C wet

IF SEALED, SEAL INTEGRITY — INTACT: Y N

Added 8/20/21 STAT

2108589

RAMBOLL

# CHAIN-of-CUSTODY



PROJECT NAME / FACILITY ID: Valley Gardens — FIELD PERSON: Z. Pfahler

PROJECT NUMBER: 1690021780 — DATE: 8.10.21 — PROJECT MANAGER: J. Kane

PROJECT LOCATION: Scotts Valley — LABORATORY: McCampbell

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #: _____ WO#: _____

SAMPLER: Z. Pfahler

SIGNATURE:

| SAMPLE I.D. NUMBER | YEAR 2021 SAMPLE DATE | SAMPLE TIME | SAMPLE DEPTH | MATRIX (S) SOIL (G) GAS (W) WATER | NUMBER OF CONTAINERS | FILTERED/UNFILTERED (F/U) | PRESERVATION (SEE KEY) | ANALYSIS REQUIRED (AMTF METALS (6010) | OCPs & PCBs (8081A/8082) | hold | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SB06-0.5 | 8.9 | 1115 | 0.5 | S | 1 | U | no | X | X | | see previous pg |
| SB06-2.0 | | 1117 | 2.0 | | | | | | | X | |
| SB10-0.5 | | 1145 | 0.5 | | | | | X | X | | |
| SB10-2.0 | | 1147 | 2.0 | | | | | | | X | |
| SB08-0.5 | | 1215 | 0.5 | | | | | X | X | | |
| SB08-2.0 | | 1217 | 2.0 | | | | | | | X | |
| SB07-0.5 | | 1220 | 0.5 | | | | | X | X | | |
| SB07-2.0 | | 1222 | 2.0 | | | | | | * | ~~X~~ | |
| SB11-0.5 | | 1630 | 0.5 | | | | | X | X | | |
| SB11-2.0 | 8.9 | 1632 | 2.0 | S | 1 | U | no | | | X | |
| TOTAL | X | X | X | | | | | | | | |

H = HCL; N = HNO3; S = H2SO4; U = UNKNOWN; NO = NONE; O = OTHER

| RELINQUISHED BY: | TIME/DATE: | RECEIVED BY: (COMPANY): | TIME/DATE: |
|---|---|---|---|
| | 1304 8.11.21 | | 1306 8/11/21 |
| | 1518 8/11/21 | | 1518 8/11/21 |
| | | | |

TURNAROUND TIME (CIRCLE ONE): SAMEDAY, 24 HOURS, 48 HOURS, 72 HOURS, 5 DAYS, NORMAL

SAMPLE INTEGRITY — INTACT: Y N Temp_____

IF SEALED, SEAL INTEGRITY — INTACT: Y N

* Extract + HOLD

eurofins | Environment Testing America



# ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-66934-1
Client Project/Site: Valley Gardens / 1690021780

For:
Ramboll US Corporation
2200 Powell Street
Suite 700
Emeryville, California 94608

Attn: Jason Kane

Vik Patel

*Authorized for release by:*
*8/23/2021 9:52:27 AM*

Vikas Patel, Project Manager I
(714)895-5494
vikas.patel@eurofinset.com

LINKS

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www.eurofinsus.com/Env

*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: Ramboll US Corporation
Job ID: 570-66934-1
Project/Site: Valley Gardens / 1690021780

## Qualifiers

### Air - GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| S1+ | Surrogate recovery exceeds control limits, high biased. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

## Job ID: 570-66934-1

### Laboratory: Eurofins Calscience LLC

**Narrative**

**Job Narrative**
**570-66934-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 8/11/2021 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 22.0º C.

**Air Toxics**
Method TO-15: Surrogate recovery for the following sample was outside control limits: SG06-3.0-20210809 (570-66934-1). Re-extraction and/or re-analysis was performed and surrogate recovery was outside control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Detection Summary

Client: Ramboll US Corporation
Project/Site: Valley Gardens / 1690021780

Job ID: 570-66934-1

## Client Sample ID: SG06-3.0-20210809 — Lab Sample ID: 570-66934-1

| Analyte | Result | Qualifier | RL | | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 22 | | 17 | | ug/m3 | 1.45 | | TO-15 | Total/NA |
| 2-Butanone | 34 | | 6.4 | | ug/m3 | 1.45 | | TO-15 | Total/NA |
| Acetone | 230 | | 6.9 | | ug/m3 | 1.45 | | TO-15 | Total/NA |
| Benzene | 12 | | 2.3 | | ug/m3 | 1.45 | | TO-15 | Total/NA |
| Carbon disulfide | 12 | | 9.0 | | ug/m3 | 1.45 | | TO-15 | Total/NA |
| Chloromethane | 8.4 | | 1.5 | | ug/m3 | 1.45 | | TO-15 | Total/NA |
| Dichlorodifluoromethane | 4.0 | | 3.6 | | ug/m3 | 1.45 | | TO-15 | Total/NA |
| Tetrachloroethene | 5.0 | | 4.9 | | ug/m3 | 1.45 | | TO-15 | Total/NA |
| Toluene | 17 | | 2.7 | | ug/m3 | 1.45 | | TO-15 | Total/NA |
| Trichloroethene | 5.8 | | 3.9 | | ug/m3 | 1.45 | | TO-15 | Total/NA |
| Vinyl acetate | 35 | | 10 | | ug/m3 | 1.45 | | TO-15 | Total/NA |

## Client Sample ID: SG05-4.5-20210810 — Lab Sample ID: 570-66934-2

| Analyte | Result | Qualifier | RL | | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 580 | | 11 | | ug/m3 | 1 | | TO-15 | Total/NA |
| 2-Butanone | 29 | | 4.4 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Acetone | 120 | | 4.8 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Benzene | 43 | | 1.6 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 98 | | 6.2 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Dichlorodifluoromethane | 3.6 | | 2.5 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 5.0 | | 2.2 | | ug/m3 | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 9.8 | | 8.7 | | ug/m3 | 1 | | TO-15 | Total/NA |
| o-Xylene | 2.8 | | 2.2 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 170 | | 3.4 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Toluene | 41 | | 1.9 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Vinyl acetate | 9.1 | | 7.0 | | ug/m3 | 1 | | TO-15 | Total/NA |

## Client Sample ID: SG04-3.5-20210810 — Lab Sample ID: 570-66934-3

| Analyte | Result | Qualifier | RL | | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 4.5 | | 4.4 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Acetone | 87 | | 4.8 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 11 | | 6.2 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloroform | 2.5 | | 2.4 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloromethane | 33 | | 1.0 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Dichlorodifluoromethane | 3.0 | | 2.5 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Isopropanol | 39 | | 12 | | ug/m3 | 1 | | TO-15 | Total/NA |

## Client Sample ID: SG03-4.5-20210810 — Lab Sample ID: 570-66934-4

| Analyte | Result | Qualifier | RL | | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 110 | | 4.8 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Benzene | 39 | | 1.6 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 12 | | 6.2 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloroethane | 10 | | 1.3 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloromethane | 15 | | 1.0 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Dichlorodifluoromethane | 3.3 | | 2.5 | | ug/m3 | 1 | | TO-15 | Total/NA |

## Client Sample ID: SG02-3.5-20210810 — Lab Sample ID: 570-66934-5

| Analyte | Result | Qualifier | RL | | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 6.0 | | 4.4 | | ug/m3 | 1 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

## Client Sample ID: SG02-3.5-20210810 (Continued)

## Lab Sample ID: 570-66934-5

| Analyte | Result | Qualifier | RL | | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 45 | | 4.8 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Benzene | 13 | | 1.6 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 18 | | 6.2 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloromethane | 3.2 | | 1.0 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Dichlorodifluoromethane | 3.5 | | 2.5 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 2.9 | | 2.2 | | ug/m3 | 1 | | TO-15 | Total/NA |
| o-Xylene | 2.5 | | 2.2 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Toluene | 19 | | 1.9 | | ug/m3 | 1 | | TO-15 | Total/NA |

## Client Sample ID: SG01-3.5-20210810

## Lab Sample ID: 570-66934-6

| Analyte | Result | Qualifier | RL | | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 11 | | 4.4 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Acetone | 85 | | 4.8 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Benzene | 6.4 | | 1.6 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 8.1 | | 6.2 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloromethane | 2.3 | | 1.0 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Dichlorodifluoromethane | 3.3 | | 2.5 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Isopropanol | 21 | | 12 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 3.6 | | 3.4 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Toluene | 6.0 | | 1.9 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichloroethene | 2.7 | | 2.7 | | ug/m3 | 1 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

**Client Sample ID: SG06-3.0-20210809**
**Date Collected: 08/09/21 15:57**
**Date Received: 08/11/21 10:30**
**Sample Container: Summa Canister 1L**

**Lab Sample ID: 570-66934-1**
**Matrix: Air**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 4.0 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| 1,1,2,2-Tetrachloroethane | ND | | 10 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | **22** | | 17 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| 1,1,2-Trichloroethane | ND | | 4.0 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| 1,1-Dichloroethane | ND | | 2.9 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| 1,1-Dichloroethene | ND | | 2.9 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| 1,1-Difluoroethane | ND | | 7.8 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| 1,2,4-Trichlorobenzene | ND | | 22 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| 1,2,4-Trimethylbenzene | ND | | 11 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| 1,2-Dibromo-3-Chloropropane | ND | | 21 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| 1,2-Dibromoethane | ND | | 5.6 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| 1,2-Dichlorobenzene | ND | | 4.4 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| 1,2-Dichloroethane | ND | | 2.9 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| 1,2-Dichloropropane | ND | | 3.4 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| 1,3,5-Trimethylbenzene | ND | | 3.6 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| 1,3-Dichlorobenzene | ND | | 4.4 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| 1,4-Dichlorobenzene | ND | | 4.4 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| **2-Butanone** | **34** | | 6.4 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| 2-Hexanone | ND | | 8.9 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| 4-Ethyltoluene | ND | | 3.6 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| 4-Methyl-2-pentanone | ND | | 8.9 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| **Acetone** | **230** | | 6.9 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| **Benzene** | **12** | | 2.3 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| Benzyl chloride | ND | | 11 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| Bromodichloromethane | ND | | 4.9 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| Bromoform | ND | | 7.5 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| Bromomethane | ND | | 2.8 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| c-1,2-Dichloroethene | ND | | 2.9 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| c-1,3-Dichloropropene | ND | | 3.3 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| **Carbon disulfide** | **12** | | 9.0 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| Carbon tetrachloride | ND | | 4.6 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| Chlorobenzene | ND | | 3.3 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| Chloroethane | ND | | 1.9 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| Chloroform | ND | | 3.5 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| **Chloromethane** | **8.4** | | 1.5 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| Dibromochloromethane | ND | | 6.2 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| **Dichlorodifluoromethane** | **4.0** | | 3.6 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| Dichlorotetrafluoroethane | ND | | 20 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| Ethylbenzene | ND | | 3.1 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| Hexachlorobutadiene | ND | | 23 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| Isopropanol | ND | | 18 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| m,p-Xylene | ND | | 13 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| Methylene Chloride | ND | | 25 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 10 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| Naphthalene | ND | | 9.5 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| n-Butylbenzene | ND | | 12 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| o-Xylene | ND | | 3.1 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| sec-Butylbenzene | ND | | 12 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Client Sample ID: SG06-3.0-20210809**
**Date Collected: 08/09/21 15:57**
**Date Received: 08/11/21 10:30**
**Sample Container: Summa Canister 1L**

**Lab Sample ID: 570-66934-1**
**Matrix: Air**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Styrene | ND | | 9.3 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| t-1,2-Dichloroethene | ND | | 2.9 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| t-1,3-Dichloropropene | ND | | 6.6 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| tert-Butylbenzene | ND | | 12 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| **Tetrachloroethene** | **5.0** | | 4.9 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| **Toluene** | **17** | | 2.7 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| **Trichloroethene** | **5.8** | | 3.9 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| Trichlorofluoromethane | ND | | 8.1 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| **Vinyl acetate** | **35** | | 10 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |
| Vinyl chloride | ND | | 1.9 | | ug/m3 | | | 08/20/21 12:13 | 1.45 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *134* | *S1+* | *70 - 131* | | *08/20/21 12:13* | *1.45* |
| *4-Bromofluorobenzene (Surr)* | *106* | | *70 - 130* | | *08/20/21 12:13* | *1.45* |
| *Toluene-d8 (Surr)* | *101* | | *70 - 130* | | *08/20/21 12:13* | *1.45* |

**Client Sample ID: SG05-4.5-20210810**
**Date Collected: 08/10/21 08:14**
**Date Received: 08/11/21 10:30**
**Sample Container: Summa Canister 1L**

**Lab Sample ID: 570-66934-2**
**Matrix: Air**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 2.7 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 6.9 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | **580** | | 11 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| 1,1,2-Trichloroethane | ND | | 2.7 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| 1,1-Dichloroethane | ND | | 2.0 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| 1,1-Dichloroethene | ND | | 2.0 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| 1,1-Difluoroethane | ND | | 5.4 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 15 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 7.4 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 14 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| 1,2-Dibromoethane | ND | | 3.8 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| 1,2-Dichlorobenzene | ND | | 3.0 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| 1,2-Dichloroethane | ND | | 2.0 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| 1,2-Dichloropropane | ND | | 2.3 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 2.5 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| 1,3-Dichlorobenzene | ND | | 3.0 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| 1,4-Dichlorobenzene | ND | | 3.0 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| **2-Butanone** | **29** | | 4.4 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| 2-Hexanone | ND | | 6.1 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| 4-Ethyltoluene | ND | | 2.5 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| 4-Methyl-2-pentanone | ND | | 6.1 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| **Acetone** | **120** | | 4.8 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| **Benzene** | **43** | | 1.6 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| Benzyl chloride | ND | | 7.8 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| Bromodichloromethane | ND | | 3.4 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| Bromoform | ND | | 5.2 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| Bromomethane | ND | | 1.9 | | ug/m3 | | | 08/20/21 00:47 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Client Sample ID: SG05-4.5-20210810**
**Date Collected: 08/10/21 08:14**
**Date Received: 08/11/21 10:30**
**Sample Container: Summa Canister 1L**

**Lab Sample ID: 570-66934-2**
**Matrix: Air**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| c-1,2-Dichloroethene | ND | | 2.0 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| c-1,3-Dichloropropene | ND | | 2.3 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| **Carbon disulfide** | **98** | | 6.2 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| Carbon tetrachloride | ND | | 3.1 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| Chlorobenzene | ND | | 2.3 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| Chloroethane | ND | | 1.3 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| Chloroform | ND | | 2.4 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| Chloromethane | ND | | 1.0 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| Dibromochloromethane | ND | | 4.3 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| **Dichlorodifluoromethane** | **3.6** | | 2.5 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| Dichlorotetrafluoroethane | ND | | 14 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| **Ethylbenzene** | **5.0** | | 2.2 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| Hexachlorobutadiene | ND | | 16 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| Isopropanol | ND | | 12 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| **m,p-Xylene** | **9.8** | | 8.7 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| Methylene Chloride | ND | | 17 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 7.2 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| Naphthalene | ND | | 6.6 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| n-Butylbenzene | ND | | 8.2 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| **o-Xylene** | **2.8** | | 2.2 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| sec-Butylbenzene | ND | | 8.2 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| Styrene | ND | | 6.4 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| t-1,2-Dichloroethene | ND | | 2.0 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| t-1,3-Dichloropropene | ND | | 4.5 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| tert-Butylbenzene | ND | | 8.2 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| **Tetrachloroethene** | **170** | | 3.4 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| **Toluene** | **41** | | 1.9 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| Trichloroethene | ND | | 2.7 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| Trichlorofluoromethane | ND | | 5.6 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| **Vinyl acetate** | **9.1** | | 7.0 | | ug/m3 | | | 08/20/21 00:47 | 1 |
| Vinyl chloride | ND | | 1.3 | | ug/m3 | | | 08/20/21 00:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *104* | | *70 - 131* | | *08/20/21 00:47* | *1* |
| *4-Bromofluorobenzene (Surr)* | *105* | | *70 - 130* | | *08/20/21 00:47* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *70 - 130* | | *08/20/21 00:47* | *1* |

**Client Sample ID: SG04-3.5-20210810**
**Date Collected: 08/10/21 09:45**
**Date Received: 08/11/21 10:30**
**Sample Container: Summa Canister 1L**

**Lab Sample ID: 570-66934-3**
**Matrix: Air**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 2.7 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 6.9 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 11 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| 1,1,2-Trichloroethane | ND | | 2.7 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| 1,1-Dichloroethane | ND | | 2.0 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| 1,1-Dichloroethene | ND | | 2.0 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| 1,1-Difluoroethane | ND | | 5.4 | | ug/m3 | | | 08/20/21 01:35 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Client Sample ID: SG04-3.5-20210810**
**Date Collected: 08/10/21 09:45**
**Date Received: 08/11/21 10:30**
**Sample Container: Summa Canister 1L**

**Lab Sample ID: 570-66934-3**
**Matrix: Air**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | | 15 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 7.4 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 14 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| 1,2-Dibromoethane | ND | | 3.8 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| 1,2-Dichlorobenzene | ND | | 3.0 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| 1,2-Dichloroethane | ND | | 2.0 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| 1,2-Dichloropropane | ND | | 2.3 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 2.5 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| 1,3-Dichlorobenzene | ND | | 3.0 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| 1,4-Dichlorobenzene | ND | | 3.0 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| **2-Butanone** | **4.5** | | 4.4 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| 2-Hexanone | ND | | 6.1 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| 4-Ethyltoluene | ND | | 2.5 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| 4-Methyl-2-pentanone | ND | | 6.1 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| **Acetone** | **87** | | 4.8 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| Benzene | ND | | 1.6 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| Benzyl chloride | ND | | 7.8 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| Bromodichloromethane | ND | | 3.4 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| Bromoform | ND | | 5.2 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| Bromomethane | ND | | 1.9 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| c-1,2-Dichloroethene | ND | | 2.0 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| c-1,3-Dichloropropene | ND | | 2.3 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| **Carbon disulfide** | **11** | | 6.2 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| Carbon tetrachloride | ND | | 3.1 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| Chlorobenzene | ND | | 2.3 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| Chloroethane | ND | | 1.3 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| **Chloroform** | **2.5** | | 2.4 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| **Chloromethane** | **33** | | 1.0 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| Dibromochloromethane | ND | | 4.3 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| **Dichlorodifluoromethane** | **3.0** | | 2.5 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| Dichlorotetrafluoroethane | ND | | 14 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| Ethylbenzene | ND | | 2.2 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| Hexachlorobutadiene | ND | | 16 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| **Isopropanol** | **39** | | 12 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| m,p-Xylene | ND | | 8.7 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| Methylene Chloride | ND | | 17 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 7.2 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| Naphthalene | ND | | 6.6 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| n-Butylbenzene | ND | | 8.2 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| o-Xylene | ND | | 2.2 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| sec-Butylbenzene | ND | | 8.2 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| Styrene | ND | | 6.4 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| t-1,2-Dichloroethene | ND | | 2.0 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| t-1,3-Dichloropropene | ND | | 4.5 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| tert-Butylbenzene | ND | | 8.2 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| Tetrachloroethene | ND | | 3.4 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| Toluene | ND | | 1.9 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| Trichloroethene | ND | | 2.7 | | ug/m3 | | | 08/20/21 01:35 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Client Sample ID: SG04-3.5-20210810** — **Lab Sample ID: 570-66934-3**
**Date Collected: 08/10/21 09:45** — **Matrix: Air**
**Date Received: 08/11/21 10:30**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Trichlorofluoromethane | ND | | 5.6 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| Vinyl acetate | ND | | 7.0 | | ug/m3 | | | 08/20/21 01:35 | 1 |
| Vinyl chloride | ND | | 1.3 | | ug/m3 | | | 08/20/21 01:35 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *106* | | *70 - 131* | | *08/20/21 01:35* | *1* |
| *4-Bromofluorobenzene (Surr)* | *105* | | *70 - 130* | | *08/20/21 01:35* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *70 - 130* | | *08/20/21 01:35* | *1* |

**Client Sample ID: SG03-4.5-20210810** — **Lab Sample ID: 570-66934-4**
**Date Collected: 08/10/21 10:33** — **Matrix: Air**
**Date Received: 08/11/21 10:30**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 2.7 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 6.9 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 11 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| 1,1,2-Trichloroethane | ND | | 2.7 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| 1,1-Dichloroethane | ND | | 2.0 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| 1,1-Dichloroethene | ND | | 2.0 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| 1,1-Difluoroethane | ND | | 5.4 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 15 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 7.4 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 14 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| 1,2-Dibromoethane | ND | | 3.8 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| 1,2-Dichlorobenzene | ND | | 3.0 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| 1,2-Dichloroethane | ND | | 2.0 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| 1,2-Dichloropropane | ND | | 2.3 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 2.5 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| 1,3-Dichlorobenzene | ND | | 3.0 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| 1,4-Dichlorobenzene | ND | | 3.0 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| 2-Butanone | ND | | 4.4 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| 2-Hexanone | ND | | 6.1 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| 4-Ethyltoluene | ND | | 2.5 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| 4-Methyl-2-pentanone | ND | | 6.1 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| **Acetone** | **110** | | 4.8 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| **Benzene** | **39** | | 1.6 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| Benzyl chloride | ND | | 7.8 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| Bromodichloromethane | ND | | 3.4 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| Bromoform | ND | | 5.2 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| Bromomethane | ND | | 1.9 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| c-1,2-Dichloroethene | ND | | 2.0 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| c-1,3-Dichloropropene | ND | | 2.3 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| **Carbon disulfide** | **12** | | 6.2 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| Carbon tetrachloride | ND | | 3.1 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| Chlorobenzene | ND | | 2.3 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| **Chloroethane** | **10** | | 1.3 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| Chloroform | ND | | 2.4 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| **Chloromethane** | **15** | | 1.0 | | ug/m3 | | | 08/20/21 02:25 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Client Sample ID: SG03-4.5-20210810**
**Date Collected: 08/10/21 10:33**
**Date Received: 08/11/21 10:30**
**Sample Container: Summa Canister 1L**

**Lab Sample ID: 570-66934-4**
**Matrix: Air**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | ND | | 4.3 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| **Dichlorodifluoromethane** | **3.3** | | 2.5 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| Dichlorotetrafluoroethane | ND | | 14 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| Ethylbenzene | ND | | 2.2 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| Hexachlorobutadiene | ND | | 16 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| Isopropanol | ND | | 12 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| m,p-Xylene | ND | | 8.7 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| Methylene Chloride | ND | | 17 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 7.2 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| Naphthalene | ND | | 6.6 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| n-Butylbenzene | ND | | 8.2 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| o-Xylene | ND | | 2.2 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| sec-Butylbenzene | ND | | 8.2 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| Styrene | ND | | 6.4 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| t-1,2-Dichloroethene | ND | | 2.0 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| t-1,3-Dichloropropene | ND | | 4.5 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| tert-Butylbenzene | ND | | 8.2 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| Tetrachloroethene | ND | | 3.4 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| Toluene | ND | | 1.9 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| Trichloroethene | ND | | 2.7 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| Trichlorofluoromethane | ND | | 5.6 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| Vinyl acetate | ND | | 7.0 | | ug/m3 | | | 08/20/21 02:25 | 1 |
| Vinyl chloride | ND | | 1.3 | | ug/m3 | | | 08/20/21 02:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *106* | | *70 - 131* | | *08/20/21 02:25* | *1* |
| *4-Bromofluorobenzene (Surr)* | *104* | | *70 - 130* | | *08/20/21 02:25* | *1* |
| *Toluene-d8 (Surr)* | *103* | | *70 - 130* | | *08/20/21 02:25* | *1* |

**Client Sample ID: SG02-3.5-20210810**
**Date Collected: 08/10/21 13:28**
**Date Received: 08/11/21 10:30**
**Sample Container: Summa Canister 1L**

**Lab Sample ID: 570-66934-5**
**Matrix: Air**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 2.7 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 6.9 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 11 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| 1,1,2-Trichloroethane | ND | | 2.7 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| 1,1-Dichloroethane | ND | | 2.0 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| 1,1-Dichloroethene | ND | | 2.0 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| 1,1-Difluoroethane | ND | | 5.4 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 15 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 7.4 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 14 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| 1,2-Dibromoethane | ND | | 3.8 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| 1,2-Dichlorobenzene | ND | | 3.0 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| 1,2-Dichloroethane | ND | | 2.0 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| 1,2-Dichloropropane | ND | | 2.3 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 2.5 | | ug/m3 | | | 08/20/21 03:13 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Client Sample ID: SG02-3.5-20210810**
**Date Collected: 08/10/21 13:28**
**Date Received: 08/11/21 10:30**
**Sample Container: Summa Canister 1L**

**Lab Sample ID: 570-66934-5**
**Matrix: Air**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ND | | 3.0 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| 1,4-Dichlorobenzene | ND | | 3.0 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| **2-Butanone** | **6.0** | | 4.4 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| 2-Hexanone | ND | | 6.1 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| 4-Ethyltoluene | ND | | 2.5 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| 4-Methyl-2-pentanone | ND | | 6.1 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| **Acetone** | **45** | | 4.8 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| **Benzene** | **13** | | 1.6 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| Benzyl chloride | ND | | 7.8 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| Bromodichloromethane | ND | | 3.4 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| Bromoform | ND | | 5.2 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| Bromomethane | ND | | 1.9 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| c-1,2-Dichloroethene | ND | | 2.0 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| c-1,3-Dichloropropene | ND | | 2.3 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| **Carbon disulfide** | **18** | | 6.2 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| Carbon tetrachloride | ND | | 3.1 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| Chlorobenzene | ND | | 2.3 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| Chloroethane | ND | | 1.3 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| Chloroform | ND | | 2.4 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| **Chloromethane** | **3.2** | | 1.0 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| Dibromochloromethane | ND | | 4.3 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| **Dichlorodifluoromethane** | **3.5** | | 2.5 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| Dichlorotetrafluoroethane | ND | | 14 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| **Ethylbenzene** | **2.9** | | 2.2 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| Hexachlorobutadiene | ND | | 16 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| Isopropanol | ND | | 12 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| m,p-Xylene | ND | | 8.7 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| Methylene Chloride | ND | | 17 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 7.2 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| Naphthalene | ND | | 6.6 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| n-Butylbenzene | ND | | 8.2 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| **o-Xylene** | **2.5** | | 2.2 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| sec-Butylbenzene | ND | | 8.2 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| Styrene | ND | | 6.4 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| t-1,2-Dichloroethene | ND | | 2.0 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| t-1,3-Dichloropropene | ND | | 4.5 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| tert-Butylbenzene | ND | | 8.2 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| Tetrachloroethene | ND | | 3.4 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| **Toluene** | **19** | | 1.9 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| Trichloroethene | ND | | 2.7 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| Trichlorofluoromethane | ND | | 5.6 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| Vinyl acetate | ND | | 7.0 | | ug/m3 | | | 08/20/21 03:13 | 1 |
| Vinyl chloride | ND | | 1.3 | | ug/m3 | | | 08/20/21 03:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *108* | | *70 - 131* | | *08/20/21 03:13* | *1* |
| *4-Bromofluorobenzene (Surr)* | *105* | | *70 - 130* | | *08/20/21 03:13* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *70 - 130* | | *08/20/21 03:13* | *1* |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

**Client Sample ID: SG01-3.5-20210810**
**Date Collected: 08/10/21 11:34**
**Date Received: 08/11/21 10:30**
**Sample Container: Summa Canister 1L**

**Lab Sample ID: 570-66934-6**
**Matrix: Air**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 2.7 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 6.9 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 11 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| 1,1,2-Trichloroethane | ND | | 2.7 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| 1,1-Dichloroethane | ND | | 2.0 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| 1,1-Dichloroethene | ND | | 2.0 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| 1,1-Difluoroethane | ND | | 5.4 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 15 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 7.4 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 14 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| 1,2-Dibromoethane | ND | | 3.8 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| 1,2-Dichlorobenzene | ND | | 3.0 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| 1,2-Dichloroethane | ND | | 2.0 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| 1,2-Dichloropropane | ND | | 2.3 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 2.5 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| 1,3-Dichlorobenzene | ND | | 3.0 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| 1,4-Dichlorobenzene | ND | | 3.0 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| **2-Butanone** | **11** | | 4.4 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| 2-Hexanone | ND | | 6.1 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| 4-Ethyltoluene | ND | | 2.5 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| 4-Methyl-2-pentanone | ND | | 6.1 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| **Acetone** | **85** | | 4.8 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| **Benzene** | **6.4** | | 1.6 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| Benzyl chloride | ND | | 7.8 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| Bromodichloromethane | ND | | 3.4 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| Bromoform | ND | | 5.2 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| Bromomethane | ND | | 1.9 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| c-1,2-Dichloroethene | ND | | 2.0 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| c-1,3-Dichloropropene | ND | | 2.3 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| **Carbon disulfide** | **8.1** | | 6.2 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| Carbon tetrachloride | ND | | 3.1 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| Chlorobenzene | ND | | 2.3 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| Chloroethane | ND | | 1.3 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| Chloroform | ND | | 2.4 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| **Chloromethane** | **2.3** | | 1.0 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| Dibromochloromethane | ND | | 4.3 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| **Dichlorodifluoromethane** | **3.3** | | 2.5 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| Dichlorotetrafluoroethane | ND | | 14 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| Ethylbenzene | ND | | 2.2 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| Hexachlorobutadiene | ND | | 16 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| **Isopropanol** | **21** | | 12 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| m,p-Xylene | ND | | 8.7 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| Methylene Chloride | ND | | 17 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 7.2 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| Naphthalene | ND | | 6.6 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| n-Butylbenzene | ND | | 8.2 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| o-Xylene | ND | | 2.2 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| sec-Butylbenzene | ND | | 8.2 | | ug/m3 | | | 08/20/21 04:02 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Client Sample ID: SG01-3.5-20210810**
**Lab Sample ID: 570-66934-6**
**Date Collected: 08/10/21 11:34**
**Matrix: Air**
**Date Received: 08/11/21 10:30**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Styrene | ND | | 6.4 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| t-1,2-Dichloroethene | ND | | 2.0 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| t-1,3-Dichloropropene | ND | | 4.5 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| tert-Butylbenzene | ND | | 8.2 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| **Tetrachloroethene** | **3.6** | | 3.4 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| **Toluene** | **6.0** | | 1.9 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| **Trichloroethene** | **2.7** | | 2.7 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| Trichlorofluoromethane | ND | | 5.6 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| Vinyl acetate | ND | | 7.0 | | ug/m3 | | | 08/20/21 04:02 | 1 |
| Vinyl chloride | ND | | 1.3 | | ug/m3 | | | 08/20/21 04:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *104* | | *70 - 131* | | *08/20/21 04:02* | *1* |
| *4-Bromofluorobenzene (Surr)* | *104* | | *70 - 130* | | *08/20/21 04:02* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *70 - 130* | | *08/20/21 04:02* | *1* |

# Surrogate Summary

Client: Ramboll US Corporation
Project/Site: Valley Gardens / 1690021780

Job ID: 570-66934-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

**Matrix: Air**

**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | |
|---|---|---|---|---|
| | | DCA | BFB | TOL |
| Lab Sample ID | Client Sample ID | (70-131) | (70-130) | (70-130) |
| 570-66934-1 | SG06-3.0-20210809 | 134 S1+ | 106 | 101 |
| 570-66934-2 | SG05-4.5-20210810 | 104 | 105 | 102 |
| 570-66934-3 | SG04-3.5-20210810 | 106 | 105 | 102 |
| 570-66934-4 | SG03-4.5-20210810 | 106 | 104 | 103 |
| 570-66934-5 | SG02-3.5-20210810 | 108 | 105 | 102 |
| 570-66934-6 | SG01-3.5-20210810 | 104 | 104 | 101 |
| LCS 570-172737/4 | Lab Control Sample | 100 | 99 | 98 |
| LCSD 570-172737/5 | Lab Control Sample Dup | 99 | 99 | 98 |
| MB 570-172737/7 | Method Blank | 101 | 100 | 98 |

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

**Lab Sample ID: MB 570-172737/7**
**Matrix: Air**
**Analysis Batch: 172737**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 2.7 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 6.9 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 11 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| 1,1,2-Trichloroethane | ND | | 2.7 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| 1,1-Dichloroethane | ND | | 2.0 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| 1,1-Dichloroethene | ND | | 2.0 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| 1,1-Difluoroethane | ND | | 5.4 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 15 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 7.4 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 14 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| 1,2-Dibromoethane | ND | | 3.8 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| 1,2-Dichlorobenzene | ND | | 3.0 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| 1,2-Dichloroethane | ND | | 2.0 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| 1,2-Dichloropropane | ND | | 2.3 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 2.5 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| 1,3-Dichlorobenzene | ND | | 3.0 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| 1,4-Dichlorobenzene | ND | | 3.0 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| 2-Butanone | ND | | 4.4 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| 2-Hexanone | ND | | 6.1 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| 4-Ethyltoluene | ND | | 2.5 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| 4-Methyl-2-pentanone | ND | | 6.1 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| Acetone | ND | | 4.8 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| Benzene | ND | | 1.6 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| Benzyl chloride | ND | | 7.8 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| Bromodichloromethane | ND | | 3.4 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| Bromoform | ND | | 5.2 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| Bromomethane | ND | | 1.9 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| c-1,2-Dichloroethene | ND | | 2.0 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| c-1,3-Dichloropropene | ND | | 2.3 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| Carbon disulfide | ND | | 6.2 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| Carbon tetrachloride | ND | | 3.1 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| Chlorobenzene | ND | | 2.3 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| Chloroethane | ND | | 1.3 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| Chloroform | ND | | 2.4 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| Chloromethane | ND | | 1.0 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| Dibromochloromethane | ND | | 4.3 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| Dichlorodifluoromethane | ND | | 2.5 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| Dichlorotetrafluoroethane | ND | | 14 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| Ethylbenzene | ND | | 2.2 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| Hexachlorobutadiene | ND | | 16 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| Isopropanol | ND | | 12 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| m,p-Xylene | ND | | 8.7 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| Methylene Chloride | ND | | 17 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 7.2 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| Naphthalene | ND | | 6.6 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| n-Butylbenzene | ND | | 8.2 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| o-Xylene | ND | | 2.2 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| sec-Butylbenzene | ND | | 8.2 | | ug/m3 | | | 08/19/21 21:30 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 570-172737/7**
**Matrix: Air**
**Analysis Batch: 172737**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Styrene | ND | | 6.4 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| t-1,2-Dichloroethene | ND | | 2.0 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| t-1,3-Dichloropropene | ND | | 4.5 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| tert-Butylbenzene | ND | | 8.2 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| Tetrachloroethene | ND | | 3.4 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| Toluene | ND | | 1.9 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| Trichloroethene | ND | | 2.7 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| Trichlorofluoromethane | ND | | 5.6 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| Vinyl acetate | ND | | 7.0 | | ug/m3 | | | 08/19/21 21:30 | 1 |
| Vinyl chloride | ND | | 1.3 | | ug/m3 | | | 08/19/21 21:30 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *70 - 131* | | *08/19/21 21:30* | *1* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *70 - 130* | | *08/19/21 21:30* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *70 - 130* | | *08/19/21 21:30* | *1* |

**Lab Sample ID: LCS 570-172737/4**
**Matrix: Air**
**Analysis Batch: 172737**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 136 | 133.9 | | ug/m3 | | 98 | 67 - 135 |
| 1,1,2,2-Tetrachloroethane | 172 | 165.3 | | ug/m3 | | 96 | 70 - 130 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 192 | 191.8 | | ug/m3 | | 100 | 70 - 130 |
| 1,1,2-Trichloroethane | 136 | 134.3 | | ug/m3 | | 98 | 69 - 131 |
| 1,1-Dichloroethane | 101 | 98.65 | | ug/m3 | | 97 | 69 - 130 |
| 1,1-Dichloroethene | 99.1 | 99.54 | | ug/m3 | | 100 | 64 - 135 |
| 1,1-Difluoroethane | 67.5 | 68.83 | | ug/m3 | | 102 | 57 - 146 |
| 1,2,4-Trichlorobenzene | 186 | 181.2 | | ug/m3 | | 98 | 51 - 134 |
| 1,2,4-Trimethylbenzene | 123 | 122.4 | | ug/m3 | | 100 | 68 - 130 |
| 1,2-Dibromo-3-Chloropropane | 242 | 249.3 | | ug/m3 | | 103 | 66 - 130 |
| 1,2-Dibromoethane | 192 | 193.6 | | ug/m3 | | 101 | 70 - 130 |
| 1,2-Dichlorobenzene | 150 | 143.2 | | ug/m3 | | 95 | 68 - 130 |
| 1,2-Dichloroethane | 101 | 100.7 | | ug/m3 | | 100 | 65 - 136 |
| 1,2-Dichloropropane | 116 | 112.1 | | ug/m3 | | 97 | 68 - 132 |
| 1,3,5-Trimethylbenzene | 123 | 116.2 | | ug/m3 | | 95 | 69 - 130 |
| 1,3-Dichlorobenzene | 150 | 144.7 | | ug/m3 | | 96 | 65 - 130 |
| 1,4-Dichlorobenzene | 150 | 144.9 | | ug/m3 | | 96 | 64 - 130 |
| 2-Butanone | 73.7 | 72.54 | | ug/m3 | | 98 | 66 - 143 |
| 2-Hexanone | 102 | 101.4 | | ug/m3 | | 99 | 64 - 139 |
| 4-Ethyltoluene | 123 | 117.5 | | ug/m3 | | 96 | 69 - 130 |
| 4-Methyl-2-pentanone | 102 | 100.2 | | ug/m3 | | 98 | 65 - 135 |
| Acetone | 59.4 | 56.31 | | ug/m3 | | 95 | 70 - 130 |
| Benzene | 79.9 | 76.76 | | ug/m3 | | 96 | 68 - 134 |
| Benzyl chloride | 129 | 132.2 | | ug/m3 | | 102 | 70 - 130 |
| Bromodichloromethane | 168 | 166.0 | | ug/m3 | | 99 | 69 - 132 |
| Bromoform | 258 | 252.4 | | ug/m3 | | 98 | 70 - 130 |
| Bromomethane | 97.1 | 98.02 | | ug/m3 | | 101 | 65 - 130 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 570-172737/4**
**Matrix: Air**
**Analysis Batch: 172737**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| c-1,2-Dichloroethene | 99.1 | 98.82 | | ug/m3 | | 100 | 70 - 130 |
| c-1,3-Dichloropropene | 113 | 112.6 | | ug/m3 | | 99 | 70 - 134 |
| Carbon disulfide | 77.9 | 77.25 | | ug/m3 | | 99 | 70 - 130 |
| Carbon tetrachloride | 157 | 157.0 | | ug/m3 | | 100 | 68 - 133 |
| Chlorobenzene | 115 | 111.3 | | ug/m3 | | 97 | 70 - 130 |
| Chloroethane | 66.0 | 67.96 | | ug/m3 | | 103 | 66 - 134 |
| Chloroform | 122 | 117.2 | | ug/m3 | | 96 | 67 - 131 |
| Chloromethane | 51.6 | 48.17 | | ug/m3 | | 93 | 60 - 137 |
| Dibromochloromethane | 213 | 212.6 | | ug/m3 | | 100 | 70 - 130 |
| Dichlorodifluoromethane | 124 | 120.9 | | ug/m3 | | 98 | 57 - 138 |
| Dichlorotetrafluoroethane | 175 | 173.5 | | ug/m3 | | 99 | 60 - 133 |
| Ethylbenzene | 109 | 104.9 | | ug/m3 | | 97 | 70 - 130 |
| Hexachlorobutadiene | 267 | 256.0 | | ug/m3 | | 96 | 58 - 130 |
| Isopropanol | 61.5 | 41.99 | | ug/m3 | | 68 | 64 - 133 |
| m,p-Xylene | 217 | 202.9 | | ug/m3 | | 93 | 70 - 130 |
| Methylene Chloride | 86.8 | 85.18 | | ug/m3 | | 98 | 65 - 130 |
| Methyl-t-Butyl Ether (MTBE) | 90.1 | 86.47 | | ug/m3 | | 96 | 70 - 130 |
| Naphthalene | 131 | 131.9 | | ug/m3 | | 101 | 36 - 146 |
| n-Butylbenzene | 137 | 141.8 | | ug/m3 | | 103 | 64 - 130 |
| o-Xylene | 109 | 98.86 | | ug/m3 | | 91 | 68 - 130 |
| sec-Butylbenzene | 137 | 142.2 | | ug/m3 | | 104 | 67 - 130 |
| Styrene | 106 | 105.9 | | ug/m3 | | 99 | 70 - 130 |
| t-1,2-Dichloroethene | 99.1 | 101.8 | | ug/m3 | | 103 | 70 - 130 |
| t-1,3-Dichloropropene | 113 | 114.1 | | ug/m3 | | 101 | 66 - 142 |
| tert-Butylbenzene | 137 | 142.8 | | ug/m3 | | 104 | 70 - 130 |
| Tetrachloroethene | 170 | 158.8 | | ug/m3 | | 94 | 70 - 130 |
| Toluene | 94.2 | 90.38 | | ug/m3 | | 96 | 70 - 130 |
| Trichloroethene | 134 | 129.3 | | ug/m3 | | 96 | 69 - 130 |
| Trichlorofluoromethane | 140 | 113.4 | | ug/m3 | | 81 | 62 - 139 |
| Vinyl acetate | 88.0 | 86.62 | | ug/m3 | | 98 | 64 - 139 |
| Vinyl chloride | 63.9 | 62.94 | | ug/m3 | | 98 | 65 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *70 - 131* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *70 - 130* |
| *Toluene-d8 (Surr)* | *98* | | *70 - 130* |

**Lab Sample ID: LCSD 570-172737/5**
**Matrix: Air**
**Analysis Batch: 172737**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 136 | 130.5 | | ug/m3 | | 96 | 67 - 135 | 3 | 25 |
| 1,1,2,2-Tetrachloroethane | 172 | 164.3 | | ug/m3 | | 96 | 70 - 130 | 1 | 25 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 192 | 188.2 | | ug/m3 | | 98 | 70 - 130 | 2 | 25 |
| 1,1,2-Trichloroethane | 136 | 132.9 | | ug/m3 | | 97 | 69 - 131 | 1 | 25 |
| 1,1-Dichloroethane | 101 | 98.45 | | ug/m3 | | 97 | 69 - 130 | 0 | 25 |
| 1,1-Dichloroethene | 99.1 | 98.34 | | ug/m3 | | 99 | 64 - 135 | 1 | 25 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCSD 570-172737/5**
**Matrix: Air**
**Analysis Batch: 172737**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Difluoroethane | 67.5 | 68.67 | | ug/m3 | | 102 | 57 - 146 | 0 | 25 |
| 1,2,4-Trichlorobenzene | 186 | 180.1 | | ug/m3 | | 97 | 51 - 134 | 1 | 25 |
| 1,2,4-Trimethylbenzene | 123 | 120.6 | | ug/m3 | | 98 | 68 - 130 | 1 | 25 |
| 1,2-Dibromo-3-Chloropropane | 242 | 246.1 | | ug/m3 | | 102 | 66 - 130 | 1 | 25 |
| 1,2-Dibromoethane | 192 | 193.5 | | ug/m3 | | 101 | 70 - 130 | 0 | 25 |
| 1,2-Dichlorobenzene | 150 | 141.5 | | ug/m3 | | 94 | 68 - 130 | 1 | 25 |
| 1,2-Dichloroethane | 101 | 99.11 | | ug/m3 | | 98 | 65 - 136 | 2 | 25 |
| 1,2-Dichloropropane | 116 | 111.8 | | ug/m3 | | 97 | 68 - 132 | 0 | 25 |
| 1,3,5-Trimethylbenzene | 123 | 114.7 | | ug/m3 | | 93 | 69 - 130 | 1 | 25 |
| 1,3-Dichlorobenzene | 150 | 142.8 | | ug/m3 | | 95 | 65 - 130 | 1 | 25 |
| 1,4-Dichlorobenzene | 150 | 143.2 | | ug/m3 | | 95 | 64 - 130 | 1 | 25 |
| 2-Butanone | 73.7 | 71.93 | | ug/m3 | | 98 | 66 - 143 | 1 | 25 |
| 2-Hexanone | 102 | 101.2 | | ug/m3 | | 99 | 64 - 139 | 0 | 25 |
| 4-Ethyltoluene | 123 | 116.1 | | ug/m3 | | 94 | 69 - 130 | 1 | 25 |
| 4-Methyl-2-pentanone | 102 | 99.20 | | ug/m3 | | 97 | 65 - 135 | 1 | 25 |
| Acetone | 59.4 | 55.83 | | ug/m3 | | 94 | 70 - 130 | 1 | 25 |
| Benzene | 79.9 | 76.33 | | ug/m3 | | 96 | 68 - 134 | 1 | 25 |
| Benzyl chloride | 129 | 130.4 | | ug/m3 | | 101 | 70 - 130 | 1 | 25 |
| Bromodichloromethane | 168 | 163.4 | | ug/m3 | | 98 | 69 - 132 | 2 | 25 |
| Bromoform | 258 | 249.9 | | ug/m3 | | 97 | 70 - 130 | 1 | 25 |
| Bromomethane | 97.1 | 97.59 | | ug/m3 | | 101 | 65 - 130 | 0 | 25 |
| c-1,2-Dichloroethene | 99.1 | 97.75 | | ug/m3 | | 99 | 70 - 130 | 1 | 25 |
| c-1,3-Dichloropropene | 113 | 112.3 | | ug/m3 | | 99 | 70 - 134 | 0 | 25 |
| Carbon disulfide | 77.9 | 75.61 | | ug/m3 | | 97 | 70 - 130 | 2 | 25 |
| Carbon tetrachloride | 157 | 156.3 | | ug/m3 | | 99 | 68 - 133 | 0 | 25 |
| Chlorobenzene | 115 | 111.1 | | ug/m3 | | 97 | 70 - 130 | 0 | 25 |
| Chloroethane | 66.0 | 67.40 | | ug/m3 | | 102 | 66 - 134 | 1 | 25 |
| Chloroform | 122 | 115.6 | | ug/m3 | | 95 | 67 - 131 | 1 | 25 |
| Chloromethane | 51.6 | 48.72 | | ug/m3 | | 94 | 60 - 137 | 1 | 25 |
| Dibromochloromethane | 213 | 211.7 | | ug/m3 | | 99 | 70 - 130 | 0 | 25 |
| Dichlorodifluoromethane | 124 | 120.9 | | ug/m3 | | 98 | 57 - 138 | 0 | 25 |
| Dichlorotetrafluoroethane | 175 | 172.1 | | ug/m3 | | 98 | 60 - 133 | 1 | 25 |
| Ethylbenzene | 109 | 103.0 | | ug/m3 | | 95 | 70 - 130 | 2 | 25 |
| Hexachlorobutadiene | 267 | 257.1 | | ug/m3 | | 96 | 58 - 130 | 0 | 25 |
| Isopropanol | 61.5 | 41.42 | | ug/m3 | | 67 | 64 - 133 | 1 | 25 |
| m,p-Xylene | 217 | 198.5 | | ug/m3 | | 91 | 70 - 130 | 2 | 25 |
| Methylene Chloride | 86.8 | 84.70 | | ug/m3 | | 98 | 65 - 130 | 1 | 25 |
| Methyl-t-Butyl Ether (MTBE) | 90.1 | 85.50 | | ug/m3 | | 95 | 70 - 130 | 1 | 25 |
| Naphthalene | 131 | 130.1 | | ug/m3 | | 99 | 36 - 146 | 1 | 25 |
| n-Butylbenzene | 137 | 139.5 | | ug/m3 | | 102 | 64 - 130 | 2 | 25 |
| o-Xylene | 109 | 97.96 | | ug/m3 | | 90 | 68 - 130 | 1 | 25 |
| sec-Butylbenzene | 137 | 140.2 | | ug/m3 | | 102 | 67 - 130 | 1 | 25 |
| Styrene | 106 | 104.5 | | ug/m3 | | 98 | 70 - 130 | 1 | 25 |
| t-1,2-Dichloroethene | 99.1 | 100.5 | | ug/m3 | | 101 | 70 - 130 | 1 | 25 |
| t-1,3-Dichloropropene | 113 | 113.1 | | ug/m3 | | 100 | 66 - 142 | 1 | 25 |
| tert-Butylbenzene | 137 | 141.0 | | ug/m3 | | 103 | 70 - 130 | 1 | 25 |
| Tetrachloroethene | 170 | 159.4 | | ug/m3 | | 94 | 70 - 130 | 0 | 25 |
| Toluene | 94.2 | 91.10 | | ug/m3 | | 97 | 70 - 130 | 1 | 25 |
| Trichloroethene | 134 | 127.9 | | ug/m3 | | 95 | 69 - 130 | 1 | 25 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCSD 570-172737/5**
**Matrix: Air**
**Analysis Batch: 172737**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Trichlorofluoromethane | | | 140 | 113.1 | | ug/m3 | | 81 | 62 - 139 | 0 | 25 |
| Vinyl acetate | | | 88.0 | 85.76 | | ug/m3 | | 97 | 64 - 139 | 1 | 25 |
| Vinyl chloride | | | 63.9 | 62.19 | | ug/m3 | | 97 | 65 - 130 | 1 | 25 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *70 - 131* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *70 - 130* |
| *Toluene-d8 (Surr)* | *98* | | *70 - 130* |

# QC Association Summary

Client: Ramboll US Corporation
Project/Site: Valley Gardens / 1690021780

Job ID: 570-66934-1

## Air - GC/MS VOA

### Analysis Batch: 172737

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-66934-1 | SG06-3.0-20210809 | Total/NA | Air | TO-15 | |
| 570-66934-2 | SG05-4.5-20210810 | Total/NA | Air | TO-15 | |
| 570-66934-3 | SG04-3.5-20210810 | Total/NA | Air | TO-15 | |
| 570-66934-4 | SG03-4.5-20210810 | Total/NA | Air | TO-15 | |
| 570-66934-5 | SG02-3.5-20210810 | Total/NA | Air | TO-15 | |
| 570-66934-6 | SG01-3.5-20210810 | Total/NA | Air | TO-15 | |
| MB 570-172737/7 | Method Blank | Total/NA | Air | TO-15 | |
| LCS 570-172737/4 | Lab Control Sample | Total/NA | Air | TO-15 | |
| LCSD 570-172737/5 | Lab Control Sample Dup | Total/NA | Air | TO-15 | |

# Lab Chronicle

Client: Ramboll US Corporation
Project/Site: Valley Gardens / 1690021780

Job ID: 570-66934-1

## Client Sample ID: SG06-3.0-20210809
**Lab Sample ID: 570-66934-1**
**Date Collected: 08/09/21 15:57**
**Matrix: Air**
**Date Received: 08/11/21 10:30**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1.45 | 400 mL | 400 mL | 172737 | 08/20/21 12:13 | UJHY | ECL 2 |
| | Instrument ID: GCMSHH | | | | | | | | | |

## Client Sample ID: SG05-4.5-20210810
**Lab Sample ID: 570-66934-2**
**Date Collected: 08/10/21 08:14**
**Matrix: Air**
**Date Received: 08/11/21 10:30**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 400 mL | 400 mL | 172737 | 08/20/21 00:47 | UJHY | ECL 2 |
| | Instrument ID: GCMSHH | | | | | | | | | |

## Client Sample ID: SG04-3.5-20210810
**Lab Sample ID: 570-66934-3**
**Date Collected: 08/10/21 09:45**
**Matrix: Air**
**Date Received: 08/11/21 10:30**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 400 mL | 400 mL | 172737 | 08/20/21 01:35 | UJHY | ECL 2 |
| | Instrument ID: GCMSHH | | | | | | | | | |

## Client Sample ID: SG03-4.5-20210810
**Lab Sample ID: 570-66934-4**
**Date Collected: 08/10/21 10:33**
**Matrix: Air**
**Date Received: 08/11/21 10:30**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 400 mL | 400 mL | 172737 | 08/20/21 02:25 | UJHY | ECL 2 |
| | Instrument ID: GCMSHH | | | | | | | | | |

## Client Sample ID: SG02-3.5-20210810
**Lab Sample ID: 570-66934-5**
**Date Collected: 08/10/21 13:28**
**Matrix: Air**
**Date Received: 08/11/21 10:30**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 400 mL | 400 mL | 172737 | 08/20/21 03:13 | UJHY | ECL 2 |
| | Instrument ID: GCMSHH | | | | | | | | | |

## Client Sample ID: SG01-3.5-20210810
**Lab Sample ID: 570-66934-6**
**Date Collected: 08/10/21 11:34**
**Matrix: Air**
**Date Received: 08/11/21 10:30**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 400 mL | 400 mL | 172737 | 08/20/21 04:02 | UJHY | ECL 2 |
| | Instrument ID: GCMSHH | | | | | | | | | |

**Laboratory References:**
ECL 2 = Eurofins Calscience LLC  Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

# Accreditation/Certification Summary

Client: Ramboll US Corporation
Job ID: 570-66934-1
Project/Site: Valley Gardens / 1690021780

## Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Oregon | NELAP | CA300001 | 01-30-22 |

# Method Summary

Client: Ramboll US Corporation
Project/Site: Valley Gardens / 1690021780

Job ID: 570-66934-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| TO-15 | Volatile Organic Compounds in Ambient Air | EPA | ECL 2 |

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

ECL 2 = Eurofins Calscience LLC  Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

# Sample Summary

Client: Ramboll US Corporation
Project/Site: Valley Gardens / 1690021780

Job ID: 570-66934-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---|---|---|---|---|---|
| 570-66934-1 | SG06-3.0-20210809 | Air | 08/09/21 15:57 | 08/11/21 10:30 | Air Canister (1-Liter) #LC218 |
| 570-66934-2 | SG05-4.5-20210810 | Air | 08/10/21 08:14 | 08/11/21 10:30 | Air Canister (1-Liter) #LC790 |
| 570-66934-3 | SG04-3.5-20210810 | Air | 08/10/21 09:45 | 08/11/21 10:30 | Air Canister (1-Liter) #LC469 |
| 570-66934-4 | SG03-4.5-20210810 | Air | 08/10/21 10:33 | 08/11/21 10:30 | Air Canister (1-Liter) #LC1206 |
| 570-66934-5 | SG02-3.5-20210810 | Air | 08/10/21 13:28 | 08/11/21 10:30 | Air Canister (1-Liter) #LC573 |
| 570-66934-6 | SG01-3.5-20210810 | Air | 08/10/21 11:34 | 08/11/21 10:30 | Air Canister (1-Liter) #LC286 |

eurofins | Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

570-66934 Chain of Custody

# AIR CHAIN OF CUSTODY RECORD

DATE: 8.10.21

PAGE: 1 OF 1

| | | | |
|---|---|---|---|
| LABORATORY CLIENT: Ramboll | CLIENT PROJECT NAME / NUMBER: Valley Gardens 1690021780 | P.O. NO: | |
| ADDRESS: 2200 Powell St, Suite 700 | PROJECT ADDRESS: 263 Mount Herman Rd | LAB CONTACT OR QUOTE NO: Vik Patel | |
| CITY: Emeryville STATE: CA ZIP: | CITY: Scotts Valley STATE: CA ZIP: 95066 | SAMPLER(S): (PRINT) Zoe Pfahler | |
| TEL: (949) 291 0340 E-MAIL: JPkane@ramboll.com | PROJECT CONTACT: | | |

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD')
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ EDD ☐ UNITS _____

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES: VOCs (TO-15)

| LAB USE ONLY | SAMPLE ID | FIELD ID / POINT OF COLLECTION | Air Type: (I) Indoor (SV) Soil Vap. (A) Ambient | Sampling Equipment: Media ID # | Canister Size 6L or 1L | Flow Controller ID # | Start Sampling Information: Date | Time (24 hr clock) | Canister Pressure ("Hg) | Stop Sampling Information: Date | Time (24 hr clock) | Canister Pressure ("Hg) | VOCs (TO-15) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SG06-3.0-20210809 | | SV | LC218 | 1L | SGM463 | 8.9.21 | 1551 | -30 | 8.9.21 | 1557 | -3 | X |
| 2 | SG05-4.5-20210810 | | SV | LC790 | 1L | SGM357 | 8.10.21 | 0810 | -28 | 8.10.21 | 0814 | -4 | X |
| 3 | SG04-3.5-20210810 | | SV | LC469 | 1L | SGM380 | 8.10.21 | 0938 | -30 | 8.10.21 | 0945 | -3 | X |
| 4 | SG03-4.5-20210810 | | SV | LC1206 | 1L | SGM006 | 8.10.21 | 1027 | -30 | 8.10.21 | 1033 | -2.5 | X |
| 5 | SG02-3.5-20210810 | | SV | LC573 | 1L | SGM555 | 8.10.21 | 1322 | -30 | 8.10.21 | 1328 | -3 | X |
| 6 | SG01-3.5-20210810 | | SV | LC286 | 1L | SGM209 | 8.10.21 | 1130 | -29 | 8.10.21 | 1134 | -3 | X |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by (Signature/Affiliation): FedEx | Date: 8.10.21 | Time: 1624 |
| Relinquished by: (Signature) Fedex | Received by: (Signature/Affiliation) | Date: 8-11-21 | Time: 1030 |
| Relinquished by (Signature) | Received by: (Signature/Affiliation) | Date: | Time: |

06/02/14 Revision

OWELL ST STE 700

ILLE, CA 94608
STATES US

CAD: 6994347/SSFE2202
DIMS. 23x17x12 IN

BILL THIRD PARTY

ROFINS CALSCIENCE

40 LINCOLN WAY

ARDEN GROVE CA 92841
95-5494 REF:

DEPT:

FedEx Express

J212021070901uv

2 of 2

2824 2562 9028

r# 2824 2562 9017

0201

WED - 11 AUG 10:30A
PRIORITY OVERNIGHT

2 APVA

92841
CA-US SNA

ORIGIN ID:JEMA (858) 349-2116
ZOE PFAHLER
RAMBOLL
2200 POWELL ST STE 700

EMERYVILLE, CA 94608
UNITED STATES US

SHIP DATE: 10AUG21
ACTWGT: 16.45 LB
CAD: 6994347/SSFE2202
DIMS: 15x13x10 IN

BILL THIRD PARTY

TO EUROFINS CALSCIENCE

7440 LINCOLN WAY

GARDEN GROVE CA 92841

(714) 895-5494 REF:

INV:
PO: DEPT:

FedEx Express

J212021070901uv

1 of 2

TRK# 0201 2824 2562 9017

## MASTER ##

WED - 11 AUG 10:30A
PRIORITY OVERNIGHT

2 APVA

92841
CA-US SNA

570-66934 Waybill

# Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 570-66934-1

**Login Number: 66934**
**List Number: 1**
**Creator: Cruise, Noel**

**List Source: Eurofins Calscience LLC**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | False | Thermal preservation not required. |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Summa Canister Dilution Worksheet

Client: Ramboll US Corporation
Project/Site: Valley Gardens / 1690021780

Job No.: 570-66934-1

| Lab Sample ID | Canister Volume (L) | Presampling Pressure ("Hg) | Preadjusted Pressure ("Hg) | Preadjusted Pressure (atm) | Preadjusted Volume (L) | Adjusted Pressure (psig) | Adjusted Pressure (atm) | Adjusted Volume (L) | Initial Volume (mL) | Dilution Factor | Final Dilution Factor | Pressure Gauge ID | Date | Analyst Initials |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 570-66934-1 | 1 | -29.5 | -3.0 | 0.90 | 0.90 | -1.47346 | 0.90 | 0.90 | | 1.00 | 1.00 | AIR MG-6 | 08/20/21 4:37 | UHOG |
| 570-66934-1 | 1 | -29.5 | -10.4 | 0.65 | 0.65 | -0.785847 | 0.95 | 0.95 | | 1.45 | 1.45 | AIR MG-6 | 08/20/21 4:40 | UHOG |
| 570-66934-2 | 1 | -29.5 | -6.0 | 0.80 | 0.80 | -2.94692 | 0.80 | 0.80 | | 1.00 | 1.00 | AIR MG-6 | 08/20/21 4:43 | UHOG |
| 570-66934-3 | 1 | -29.5 | 0 | 1.00 | 1.00 | 0 | 1.00 | 1.00 | | 1.00 | 1.00 | AIR MG-6 | 08/20/21 4:44 | UHOG |
| 570-66934-4 | 1 | -29.5 | -1.6 | 0.95 | 0.95 | -0.785847 | 0.95 | 0.95 | | 1.00 | 1.00 | AIR MG-6 | 08/20/21 4:44 | UHOG |
| 570-66934-5 | 1 | -29.5 | -4.4 | 0.85 | 0.85 | -2.16108 | 0.85 | 0.85 | | 1.00 | 1.00 | AIR MG-6 | 08/20/21 4:44 | UHOG |
| 570-66934-6 | 1 | -29.5 | -1.6 | 0.95 | 0.95 | -0.785847 | 0.95 | 0.95 | | 1.00 | 1.00 | AIR MG-6 | 08/20/21 4:45 | UHOG |

**Formulae:**

Preadjusted Volume (L) = ((Preadjusted Pressure ("Hg) + 29.92 "Hg) * Vol L ) / 29.92 "Hg
Adjusted Volume (L) = (( Adjusted Pressure (psig) + 14.7 psig )* Vol L ) / 14.7 psig
Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

**Where:**

29.92 "Hg = Standard atmospheric pressure in inches of Mercury (“Hg)
14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

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# ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-76420-1
Client Project/Site: SCDC – Valley Gardens / 1690021780
Revision: 1

For:
Ramboll US Corporation
2200 Powell Street
Suite 700
Emeryville, California 94608

Attn: Jason Kane

Vik Patel

*Authorized for release by:*
*11/24/2021 3:55:11 PM*

Vikas Patel, Project Manager I
(714)895-5494
vikas.patel@eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: Ramboll US Corporation
Job ID: 570-76420-1
Project/Site: SCDC – Valley Gardens / 1690021780

## Qualifiers

### Air - GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

## Job ID: 570-76420-1

### Laboratory: Eurofins Calscience LLC

**Narrative**

**Job Narrative**
**570-76420-1**

**Comments**
No additional comments.

**Revision**
The report being provided is a revision of the original report sent on 11/22/2021. The report (revision 1) is being revised due to: a change request to report MDLs.

**Receipt**
The samples were received on 11/19/2021 7:43 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 22.0º C.

**Receipt Exceptions**

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): SG08-3.5-20211118 (570-76420-4). The Flow Controller list per can,SGM197 while the COC lists,SGM192.

**Air Toxics**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Detection Summary

Client: Ramboll US Corporation
Job ID: 570-76420-1
Project/Site: SCDC – Valley Gardens / 1690021780

## Client Sample ID: SG07-4.5-20211118 — Lab Sample ID: 570-76420-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.88 | J | 2.0 | 0.69 | ug/m3 | 1 | | TO-15 | Total/NA |
| 2-Butanone | 36 | | 4.4 | 1.2 | ug/m3 | 1 | | TO-15 | Total/NA |
| Acetone | 170 | | 4.8 | 0.94 | ug/m3 | 1 | | TO-15 | Total/NA |
| Benzene | 37 | | 1.6 | 0.50 | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 77 | | 6.2 | 0.58 | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloroform | 6.8 | | 2.4 | 0.78 | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloromethane | 1.2 | | 1.0 | 0.33 | ug/m3 | 1 | | TO-15 | Total/NA |
| Dichlorodifluoromethane | 1.5 | J | 2.5 | 0.98 | ug/m3 | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 3.7 | | 2.2 | 1.1 | ug/m3 | 1 | | TO-15 | Total/NA |
| Isopropanol | 14 | | 12 | 0.96 | ug/m3 | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 7.9 | J | 8.7 | 2.7 | ug/m3 | 1 | | TO-15 | Total/NA |
| Methylene Chloride | 23 | | 17 | 6.9 | ug/m3 | 1 | | TO-15 | Total/NA |
| o-Xylene | 3.3 | | 2.2 | 0.86 | ug/m3 | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 1.5 | J | 3.4 | 1.1 | ug/m3 | 1 | | TO-15 | Total/NA |
| Toluene | 29 | | 1.9 | 0.50 | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichloroethene | 1.5 | J | 2.7 | 0.96 | ug/m3 | 1 | | TO-15 | Total/NA |

## Client Sample ID: SG10-7.0-20211118 — Lab Sample ID: 570-76420-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 9.1 | J | 22 | 6.1 | ug/m3 | 5 | | TO-15 | Total/NA |
| Acetone | 59 | | 24 | 4.7 | ug/m3 | 5 | | TO-15 | Total/NA |
| Benzene | 42 | | 8.0 | 2.5 | ug/m3 | 5 | | TO-15 | Total/NA |
| Carbon disulfide | 220 | | 31 | 2.9 | ug/m3 | 5 | | TO-15 | Total/NA |
| Isopropanol | 7.0 | J | 61 | 4.8 | ug/m3 | 5 | | TO-15 | Total/NA |
| m,p-Xylene | 15 | J | 43 | 14 | ug/m3 | 5 | | TO-15 | Total/NA |
| o-Xylene | 5.6 | J | 11 | 4.3 | ug/m3 | 5 | | TO-15 | Total/NA |
| Toluene | 35 | | 9.4 | 2.5 | ug/m3 | 5 | | TO-15 | Total/NA |

## Client Sample ID: SG09-4.5-20211118 — Lab Sample ID: 570-76420-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 16 | J | 22 | 6.1 | ug/m3 | 5 | | TO-15 | Total/NA |
| Acetone | 69 | | 24 | 4.7 | ug/m3 | 5 | | TO-15 | Total/NA |
| Benzene | 16 | | 8.0 | 2.5 | ug/m3 | 5 | | TO-15 | Total/NA |
| Carbon disulfide | 69 | | 31 | 2.9 | ug/m3 | 5 | | TO-15 | Total/NA |
| Toluene | 12 | | 9.4 | 2.5 | ug/m3 | 5 | | TO-15 | Total/NA |

## Client Sample ID: SG08-3.5-20211118 — Lab Sample ID: 570-76420-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 4.1 | J | 4.4 | 1.2 | ug/m3 | 1 | | TO-15 | Total/NA |
| Acetone | 17 | | 4.8 | 0.94 | ug/m3 | 1 | | TO-15 | Total/NA |
| Benzene | 11 | | 1.6 | 0.50 | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 4.0 | J | 6.2 | 0.58 | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloroform | 3.2 | | 2.4 | 0.78 | ug/m3 | 1 | | TO-15 | Total/NA |
| Dichlorodifluoromethane | 2.4 | J | 2.5 | 0.98 | ug/m3 | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 2.2 | | 2.2 | 1.1 | ug/m3 | 1 | | TO-15 | Total/NA |
| Isopropanol | 1.4 | J | 12 | 0.96 | ug/m3 | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 6.9 | J | 8.7 | 2.7 | ug/m3 | 1 | | TO-15 | Total/NA |
| o-Xylene | 2.2 | | 2.2 | 0.86 | ug/m3 | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 1.5 | J | 3.4 | 1.1 | ug/m3 | 1 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: SG08-3.5-20211118 (Continued)
## Lab Sample ID: 570-76420-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | 16 | | 1.9 | 0.50 | ug/m3 | 1 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

Client: Ramboll US Corporation
Job ID: 570-76420-1
Project/Site: SCDC – Valley Gardens / 1690021780

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

**Client Sample ID: SG07-4.5-20211118**
**Lab Sample ID: 570-76420-1**
**Date Collected: 11/18/21 11:22**
**Matrix: Air**
**Date Received: 11/19/21 07:43**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 2.7 | 0.79 | ug/m3 | | | 11/19/21 17:19 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 6.9 | 1.1 | ug/m3 | | | 11/19/21 17:19 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 11 | 2.3 | ug/m3 | | | 11/19/21 17:19 | 1 |
| 1,1,2-Trichloroethane | ND | | 2.7 | 0.76 | ug/m3 | | | 11/19/21 17:19 | 1 |
| 1,1-Dichloroethane | ND | | 2.0 | 0.42 | ug/m3 | | | 11/19/21 17:19 | 1 |
| **1,1-Dichloroethene** | **0.88** | **J** | 2.0 | 0.69 | ug/m3 | | | 11/19/21 17:19 | 1 |
| 1,1-Difluoroethane | ND | | 5.4 | 0.99 | ug/m3 | | | 11/19/21 17:19 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 15 | 4.9 | ug/m3 | | | 11/19/21 17:19 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 7.4 | 1.6 | ug/m3 | | | 11/19/21 17:19 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 14 | 2.8 | ug/m3 | | | 11/19/21 17:19 | 1 |
| 1,2-Dibromoethane | ND | | 3.8 | 1.3 | ug/m3 | | | 11/19/21 17:19 | 1 |
| 1,2-Dichlorobenzene | ND | | 3.0 | 1.5 | ug/m3 | | | 11/19/21 17:19 | 1 |
| 1,2-Dichloroethane | ND | | 2.0 | 0.59 | ug/m3 | | | 11/19/21 17:19 | 1 |
| 1,2-Dichloropropane | ND | | 2.3 | 0.64 | ug/m3 | | | 11/19/21 17:19 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 2.5 | 1.0 | ug/m3 | | | 11/19/21 17:19 | 1 |
| 1,3-Dichlorobenzene | ND | | 3.0 | 1.5 | ug/m3 | | | 11/19/21 17:19 | 1 |
| 1,4-Dichlorobenzene | ND | | 3.0 | 1.5 | ug/m3 | | | 11/19/21 17:19 | 1 |
| **2-Butanone** | **36** | | 4.4 | 1.2 | ug/m3 | | | 11/19/21 17:19 | 1 |
| 2-Hexanone | ND | | 6.1 | 2.6 | ug/m3 | | | 11/19/21 17:19 | 1 |
| 4-Ethyltoluene | ND | | 2.5 | 1.2 | ug/m3 | | | 11/19/21 17:19 | 1 |
| 4-Methyl-2-pentanone | ND | | 6.1 | 2.3 | ug/m3 | | | 11/19/21 17:19 | 1 |
| **Acetone** | **170** | | 4.8 | 0.94 | ug/m3 | | | 11/19/21 17:19 | 1 |
| **Benzene** | **37** | | 1.6 | 0.50 | ug/m3 | | | 11/19/21 17:19 | 1 |
| Benzyl chloride | ND | | 7.8 | 2.7 | ug/m3 | | | 11/19/21 17:19 | 1 |
| Bromodichloromethane | ND | | 3.4 | 0.74 | ug/m3 | | | 11/19/21 17:19 | 1 |
| Bromoform | ND | | 5.2 | 1.8 | ug/m3 | | | 11/19/21 17:19 | 1 |
| Bromomethane | ND | | 1.9 | 0.54 | ug/m3 | | | 11/19/21 17:19 | 1 |
| c-1,2-Dichloroethene | ND | | 2.0 | 0.54 | ug/m3 | | | 11/19/21 17:19 | 1 |
| c-1,3-Dichloropropene | ND | | 2.3 | 0.98 | ug/m3 | | | 11/19/21 17:19 | 1 |
| **Carbon disulfide** | **77** | | 6.2 | 0.58 | ug/m3 | | | 11/19/21 17:19 | 1 |
| Carbon tetrachloride | ND | | 3.1 | 1.3 | ug/m3 | | | 11/19/21 17:19 | 1 |
| Chlorobenzene | ND | | 2.3 | 0.60 | ug/m3 | | | 11/19/21 17:19 | 1 |
| Chloroethane | ND | | 1.3 | 0.45 | ug/m3 | | | 11/19/21 17:19 | 1 |
| **Chloroform** | **6.8** | | 2.4 | 0.78 | ug/m3 | | | 11/19/21 17:19 | 1 |
| **Chloromethane** | **1.2** | | 1.0 | 0.33 | ug/m3 | | | 11/19/21 17:19 | 1 |
| Dibromochloromethane | ND | | 4.3 | 1.3 | ug/m3 | | | 11/19/21 17:19 | 1 |
| **Dichlorodifluoromethane** | **1.5** | **J** | 2.5 | 0.98 | ug/m3 | | | 11/19/21 17:19 | 1 |
| Dichlorotetrafluoroethane | ND | | 14 | 1.3 | ug/m3 | | | 11/19/21 17:19 | 1 |
| **Ethylbenzene** | **3.7** | | 2.2 | 1.1 | ug/m3 | | | 11/19/21 17:19 | 1 |
| Hexachlorobutadiene | ND | | 16 | 6.2 | ug/m3 | | | 11/19/21 17:19 | 1 |
| **Isopropanol** | **14** | | 12 | 0.96 | ug/m3 | | | 11/19/21 17:19 | 1 |
| **m,p-Xylene** | **7.9** | **J** | 8.7 | 2.7 | ug/m3 | | | 11/19/21 17:19 | 1 |
| **Methylene Chloride** | **23** | | 17 | 6.9 | ug/m3 | | | 11/19/21 17:19 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 7.2 | 1.2 | ug/m3 | | | 11/19/21 17:19 | 1 |
| Naphthalene | ND | | 6.6 | 3.1 | ug/m3 | | | 11/19/21 17:19 | 1 |
| n-Butylbenzene | ND | | 8.2 | 2.3 | ug/m3 | | | 11/19/21 17:19 | 1 |
| **o-Xylene** | **3.3** | | 2.2 | 0.86 | ug/m3 | | | 11/19/21 17:19 | 1 |
| sec-Butylbenzene | ND | | 8.2 | 1.6 | ug/m3 | | | 11/19/21 17:19 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Client Sample ID: SG07-4.5-20211118**
**Lab Sample ID: 570-76420-1**
**Date Collected: 11/18/21 11:22**
**Matrix: Air**
**Date Received: 11/19/21 07:43**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Styrene | ND | | 6.4 | 2.3 | ug/m3 | | | 11/19/21 17:19 | 1 |
| t-1,2-Dichloroethene | ND | | 2.0 | 0.50 | ug/m3 | | | 11/19/21 17:19 | 1 |
| t-1,3-Dichloropropene | ND | | 4.5 | 0.96 | ug/m3 | | | 11/19/21 17:19 | 1 |
| tert-Butylbenzene | ND | | 8.2 | 1.5 | ug/m3 | | | 11/19/21 17:19 | 1 |
| **Tetrachloroethene** | **1.5** | **J** | 3.4 | 1.1 | ug/m3 | | | 11/19/21 17:19 | 1 |
| **Toluene** | **29** | | 1.9 | 0.50 | ug/m3 | | | 11/19/21 17:19 | 1 |
| **Trichloroethene** | **1.5** | **J** | 2.7 | 0.96 | ug/m3 | | | 11/19/21 17:19 | 1 |
| Trichlorofluoromethane | ND | | 5.6 | 1.3 | ug/m3 | | | 11/19/21 17:19 | 1 |
| Vinyl acetate | ND | | 7.0 | 1.2 | ug/m3 | | | 11/19/21 17:19 | 1 |
| Vinyl chloride | ND | | 1.3 | 0.41 | ug/m3 | | | 11/19/21 17:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *66 - 132* | | *11/19/21 17:19* | *1* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *70 - 130* | | *11/19/21 17:19* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *70 - 130* | | *11/19/21 17:19* | *1* |

**Client Sample ID: SG10-7.0-20211118**
**Lab Sample ID: 570-76420-2**
**Date Collected: 11/18/21 13:12**
**Matrix: Air**
**Date Received: 11/19/21 07:43**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 14 | 4.0 | ug/m3 | | | 11/19/21 18:09 | 5 |
| 1,1,2,2-Tetrachloroethane | ND | | 34 | 5.7 | ug/m3 | | | 11/19/21 18:09 | 5 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 57 | 11 | ug/m3 | | | 11/19/21 18:09 | 5 |
| 1,1,2-Trichloroethane | ND | | 14 | 3.8 | ug/m3 | | | 11/19/21 18:09 | 5 |
| 1,1-Dichloroethane | ND | | 10 | 2.1 | ug/m3 | | | 11/19/21 18:09 | 5 |
| 1,1-Dichloroethene | ND | | 9.9 | 3.5 | ug/m3 | | | 11/19/21 18:09 | 5 |
| 1,1-Difluoroethane | ND | | 27 | 4.9 | ug/m3 | | | 11/19/21 18:09 | 5 |
| 1,2,4-Trichlorobenzene | ND | | 74 | 24 | ug/m3 | | | 11/19/21 18:09 | 5 |
| 1,2,4-Trimethylbenzene | ND | | 37 | 8.2 | ug/m3 | | | 11/19/21 18:09 | 5 |
| 1,2-Dibromo-3-Chloropropane | ND | | 72 | 14 | ug/m3 | | | 11/19/21 18:09 | 5 |
| 1,2-Dibromoethane | ND | | 19 | 6.7 | ug/m3 | | | 11/19/21 18:09 | 5 |
| 1,2-Dichlorobenzene | ND | | 15 | 7.4 | ug/m3 | | | 11/19/21 18:09 | 5 |
| 1,2-Dichloroethane | ND | | 10 | 2.9 | ug/m3 | | | 11/19/21 18:09 | 5 |
| 1,2-Dichloropropane | ND | | 12 | 3.2 | ug/m3 | | | 11/19/21 18:09 | 5 |
| 1,3,5-Trimethylbenzene | ND | | 12 | 5.0 | ug/m3 | | | 11/19/21 18:09 | 5 |
| 1,3-Dichlorobenzene | ND | | 15 | 7.3 | ug/m3 | | | 11/19/21 18:09 | 5 |
| 1,4-Dichlorobenzene | ND | | 15 | 7.5 | ug/m3 | | | 11/19/21 18:09 | 5 |
| **2-Butanone** | **9.1** | **J** | 22 | 6.1 | ug/m3 | | | 11/19/21 18:09 | 5 |
| 2-Hexanone | ND | | 31 | 13 | ug/m3 | | | 11/19/21 18:09 | 5 |
| 4-Ethyltoluene | ND | | 12 | 6.2 | ug/m3 | | | 11/19/21 18:09 | 5 |
| 4-Methyl-2-pentanone | ND | | 31 | 11 | ug/m3 | | | 11/19/21 18:09 | 5 |
| **Acetone** | **59** | | 24 | 4.7 | ug/m3 | | | 11/19/21 18:09 | 5 |
| **Benzene** | **42** | | 8.0 | 2.5 | ug/m3 | | | 11/19/21 18:09 | 5 |
| Benzyl chloride | ND | | 39 | 13 | ug/m3 | | | 11/19/21 18:09 | 5 |
| Bromodichloromethane | ND | | 17 | 3.7 | ug/m3 | | | 11/19/21 18:09 | 5 |
| Bromoform | ND | | 26 | 8.9 | ug/m3 | | | 11/19/21 18:09 | 5 |
| Bromomethane | ND | | 9.7 | 2.7 | ug/m3 | | | 11/19/21 18:09 | 5 |
| c-1,2-Dichloroethene | ND | | 9.9 | 2.7 | ug/m3 | | | 11/19/21 18:09 | 5 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Client Sample ID: SG10-7.0-20211118**
**Lab Sample ID: 570-76420-2**
**Date Collected: 11/18/21 13:12**
**Matrix: Air**
**Date Received: 11/19/21 07:43**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| c-1,3-Dichloropropene | ND | | 11 | 4.9 | ug/m3 | | | 11/19/21 18:09 | 5 |
| **Carbon disulfide** | **220** | | 31 | 2.9 | ug/m3 | | | 11/19/21 18:09 | 5 |
| Carbon tetrachloride | ND | | 16 | 6.4 | ug/m3 | | | 11/19/21 18:09 | 5 |
| Chlorobenzene | ND | | 12 | 3.0 | ug/m3 | | | 11/19/21 18:09 | 5 |
| Chloroethane | ND | | 6.6 | 2.3 | ug/m3 | | | 11/19/21 18:09 | 5 |
| Chloroform | ND | | 12 | 3.9 | ug/m3 | | | 11/19/21 18:09 | 5 |
| Chloromethane | ND | | 5.2 | 1.7 | ug/m3 | | | 11/19/21 18:09 | 5 |
| Dibromochloromethane | ND | | 21 | 6.6 | ug/m3 | | | 11/19/21 18:09 | 5 |
| Dichlorodifluoromethane | ND | | 12 | 4.9 | ug/m3 | | | 11/19/21 18:09 | 5 |
| Dichlorotetrafluoroethane | ND | | 70 | 6.6 | ug/m3 | | | 11/19/21 18:09 | 5 |
| Ethylbenzene | ND | | 11 | 5.4 | ug/m3 | | | 11/19/21 18:09 | 5 |
| Hexachlorobutadiene | ND | | 80 | 31 | ug/m3 | | | 11/19/21 18:09 | 5 |
| **Isopropanol** | **7.0** | **J** | 61 | 4.8 | ug/m3 | | | 11/19/21 18:09 | 5 |
| **m,p-Xylene** | **15** | **J** | 43 | 14 | ug/m3 | | | 11/19/21 18:09 | 5 |
| Methylene Chloride | ND | | 87 | 35 | ug/m3 | | | 11/19/21 18:09 | 5 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 36 | 6.1 | ug/m3 | | | 11/19/21 18:09 | 5 |
| Naphthalene | ND | | 33 | 16 | ug/m3 | | | 11/19/21 18:09 | 5 |
| n-Butylbenzene | ND | | 41 | 12 | ug/m3 | | | 11/19/21 18:09 | 5 |
| **o-Xylene** | **5.6** | **J** | 11 | 4.3 | ug/m3 | | | 11/19/21 18:09 | 5 |
| sec-Butylbenzene | ND | | 41 | 8.1 | ug/m3 | | | 11/19/21 18:09 | 5 |
| Styrene | ND | | 32 | 11 | ug/m3 | | | 11/19/21 18:09 | 5 |
| t-1,2-Dichloroethene | ND | | 9.9 | 2.5 | ug/m3 | | | 11/19/21 18:09 | 5 |
| t-1,3-Dichloropropene | ND | | 23 | 4.8 | ug/m3 | | | 11/19/21 18:09 | 5 |
| tert-Butylbenzene | ND | | 41 | 7.5 | ug/m3 | | | 11/19/21 18:09 | 5 |
| Tetrachloroethene | ND | | 17 | 5.7 | ug/m3 | | | 11/19/21 18:09 | 5 |
| **Toluene** | **35** | | 9.4 | 2.5 | ug/m3 | | | 11/19/21 18:09 | 5 |
| Trichloroethene | ND | | 13 | 4.8 | ug/m3 | | | 11/19/21 18:09 | 5 |
| Trichlorofluoromethane | ND | | 28 | 6.6 | ug/m3 | | | 11/19/21 18:09 | 5 |
| Vinyl acetate | ND | | 35 | 6.2 | ug/m3 | | | 11/19/21 18:09 | 5 |
| Vinyl chloride | ND | | 6.4 | 2.1 | ug/m3 | | | 11/19/21 18:09 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *66 - 132* | | *11/19/21 18:09* | *5* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *70 - 130* | | *11/19/21 18:09* | *5* |
| *Toluene-d8 (Surr)* | *97* | | *70 - 130* | | *11/19/21 18:09* | *5* |

**Client Sample ID: SG09-4.5-20211118**
**Lab Sample ID: 570-76420-3**
**Date Collected: 11/18/21 14:00**
**Matrix: Air**
**Date Received: 11/19/21 07:43**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 14 | 4.0 | ug/m3 | | | 11/19/21 19:04 | 5 |
| 1,1,2,2-Tetrachloroethane | ND | | 34 | 5.7 | ug/m3 | | | 11/19/21 19:04 | 5 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 57 | 11 | ug/m3 | | | 11/19/21 19:04 | 5 |
| 1,1,2-Trichloroethane | ND | | 14 | 3.8 | ug/m3 | | | 11/19/21 19:04 | 5 |
| 1,1-Dichloroethane | ND | | 10 | 2.1 | ug/m3 | | | 11/19/21 19:04 | 5 |
| 1,1-Dichloroethene | ND | | 9.9 | 3.5 | ug/m3 | | | 11/19/21 19:04 | 5 |
| 1,1-Difluoroethane | ND | | 27 | 4.9 | ug/m3 | | | 11/19/21 19:04 | 5 |
| 1,2,4-Trichlorobenzene | ND | | 74 | 24 | ug/m3 | | | 11/19/21 19:04 | 5 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Client Sample ID: SG09-4.5-20211118**
**Lab Sample ID: 570-76420-3**
**Date Collected: 11/18/21 14:00**
**Matrix: Air**
**Date Received: 11/19/21 07:43**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | ND | | 37 | 8.2 | ug/m3 | | | 11/19/21 19:04 | 5 |
| 1,2-Dibromo-3-Chloropropane | ND | | 72 | 14 | ug/m3 | | | 11/19/21 19:04 | 5 |
| 1,2-Dibromoethane | ND | | 19 | 6.7 | ug/m3 | | | 11/19/21 19:04 | 5 |
| 1,2-Dichlorobenzene | ND | | 15 | 7.4 | ug/m3 | | | 11/19/21 19:04 | 5 |
| 1,2-Dichloroethane | ND | | 10 | 2.9 | ug/m3 | | | 11/19/21 19:04 | 5 |
| 1,2-Dichloropropane | ND | | 12 | 3.2 | ug/m3 | | | 11/19/21 19:04 | 5 |
| 1,3,5-Trimethylbenzene | ND | | 12 | 5.0 | ug/m3 | | | 11/19/21 19:04 | 5 |
| 1,3-Dichlorobenzene | ND | | 15 | 7.3 | ug/m3 | | | 11/19/21 19:04 | 5 |
| 1,4-Dichlorobenzene | ND | | 15 | 7.5 | ug/m3 | | | 11/19/21 19:04 | 5 |
| **2-Butanone** | **16** | **J** | 22 | 6.1 | ug/m3 | | | 11/19/21 19:04 | 5 |
| 2-Hexanone | ND | | 31 | 13 | ug/m3 | | | 11/19/21 19:04 | 5 |
| 4-Ethyltoluene | ND | | 12 | 6.2 | ug/m3 | | | 11/19/21 19:04 | 5 |
| 4-Methyl-2-pentanone | ND | | 31 | 11 | ug/m3 | | | 11/19/21 19:04 | 5 |
| **Acetone** | **69** | | 24 | 4.7 | ug/m3 | | | 11/19/21 19:04 | 5 |
| **Benzene** | **16** | | 8.0 | 2.5 | ug/m3 | | | 11/19/21 19:04 | 5 |
| Benzyl chloride | ND | | 39 | 13 | ug/m3 | | | 11/19/21 19:04 | 5 |
| Bromodichloromethane | ND | | 17 | 3.7 | ug/m3 | | | 11/19/21 19:04 | 5 |
| Bromoform | ND | | 26 | 8.9 | ug/m3 | | | 11/19/21 19:04 | 5 |
| Bromomethane | ND | | 9.7 | 2.7 | ug/m3 | | | 11/19/21 19:04 | 5 |
| c-1,2-Dichloroethene | ND | | 9.9 | 2.7 | ug/m3 | | | 11/19/21 19:04 | 5 |
| c-1,3-Dichloropropene | ND | | 11 | 4.9 | ug/m3 | | | 11/19/21 19:04 | 5 |
| **Carbon disulfide** | **69** | | 31 | 2.9 | ug/m3 | | | 11/19/21 19:04 | 5 |
| Carbon tetrachloride | ND | | 16 | 6.4 | ug/m3 | | | 11/19/21 19:04 | 5 |
| Chlorobenzene | ND | | 12 | 3.0 | ug/m3 | | | 11/19/21 19:04 | 5 |
| Chloroethane | ND | | 6.6 | 2.3 | ug/m3 | | | 11/19/21 19:04 | 5 |
| Chloroform | ND | | 12 | 3.9 | ug/m3 | | | 11/19/21 19:04 | 5 |
| Chloromethane | ND | | 5.2 | 1.7 | ug/m3 | | | 11/19/21 19:04 | 5 |
| Dibromochloromethane | ND | | 21 | 6.6 | ug/m3 | | | 11/19/21 19:04 | 5 |
| Dichlorodifluoromethane | ND | | 12 | 4.9 | ug/m3 | | | 11/19/21 19:04 | 5 |
| Dichlorotetrafluoroethane | ND | | 70 | 6.6 | ug/m3 | | | 11/19/21 19:04 | 5 |
| Ethylbenzene | ND | | 11 | 5.4 | ug/m3 | | | 11/19/21 19:04 | 5 |
| Hexachlorobutadiene | ND | | 80 | 31 | ug/m3 | | | 11/19/21 19:04 | 5 |
| Isopropanol | ND | | 61 | 4.8 | ug/m3 | | | 11/19/21 19:04 | 5 |
| m,p-Xylene | ND | | 43 | 14 | ug/m3 | | | 11/19/21 19:04 | 5 |
| Methylene Chloride | ND | | 87 | 35 | ug/m3 | | | 11/19/21 19:04 | 5 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 36 | 6.1 | ug/m3 | | | 11/19/21 19:04 | 5 |
| Naphthalene | ND | | 33 | 16 | ug/m3 | | | 11/19/21 19:04 | 5 |
| n-Butylbenzene | ND | | 41 | 12 | ug/m3 | | | 11/19/21 19:04 | 5 |
| o-Xylene | ND | | 11 | 4.3 | ug/m3 | | | 11/19/21 19:04 | 5 |
| sec-Butylbenzene | ND | | 41 | 8.1 | ug/m3 | | | 11/19/21 19:04 | 5 |
| Styrene | ND | | 32 | 11 | ug/m3 | | | 11/19/21 19:04 | 5 |
| t-1,2-Dichloroethene | ND | | 9.9 | 2.5 | ug/m3 | | | 11/19/21 19:04 | 5 |
| t-1,3-Dichloropropene | ND | | 23 | 4.8 | ug/m3 | | | 11/19/21 19:04 | 5 |
| tert-Butylbenzene | ND | | 41 | 7.5 | ug/m3 | | | 11/19/21 19:04 | 5 |
| Tetrachloroethene | ND | | 17 | 5.7 | ug/m3 | | | 11/19/21 19:04 | 5 |
| **Toluene** | **12** | | 9.4 | 2.5 | ug/m3 | | | 11/19/21 19:04 | 5 |
| Trichloroethene | ND | | 13 | 4.8 | ug/m3 | | | 11/19/21 19:04 | 5 |
| Trichlorofluoromethane | ND | | 28 | 6.6 | ug/m3 | | | 11/19/21 19:04 | 5 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Client Sample ID: SG09-4.5-20211118**
**Lab Sample ID: 570-76420-3**
**Date Collected: 11/18/21 14:00**
**Matrix: Air**
**Date Received: 11/19/21 07:43**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Vinyl acetate | ND | | 35 | 6.2 | ug/m3 | | | 11/19/21 19:04 | 5 |
| Vinyl chloride | ND | | 6.4 | 2.1 | ug/m3 | | | 11/19/21 19:04 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *98* | | *66 - 132* | | *11/19/21 19:04* | *5* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *70 - 130* | | *11/19/21 19:04* | *5* |
| *Toluene-d8 (Surr)* | *95* | | *70 - 130* | | *11/19/21 19:04* | *5* |

**Client Sample ID: SG08-3.5-20211118**
**Lab Sample ID: 570-76420-4**
**Date Collected: 11/18/21 14:43**
**Matrix: Air**
**Date Received: 11/19/21 07:43**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 2.7 | 0.79 | ug/m3 | | | 11/19/21 20:03 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 6.9 | 1.1 | ug/m3 | | | 11/19/21 20:03 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 11 | 2.3 | ug/m3 | | | 11/19/21 20:03 | 1 |
| 1,1,2-Trichloroethane | ND | | 2.7 | 0.76 | ug/m3 | | | 11/19/21 20:03 | 1 |
| 1,1-Dichloroethane | ND | | 2.0 | 0.42 | ug/m3 | | | 11/19/21 20:03 | 1 |
| 1,1-Dichloroethene | ND | | 2.0 | 0.69 | ug/m3 | | | 11/19/21 20:03 | 1 |
| 1,1-Difluoroethane | ND | | 5.4 | 0.99 | ug/m3 | | | 11/19/21 20:03 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 15 | 4.9 | ug/m3 | | | 11/19/21 20:03 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 7.4 | 1.6 | ug/m3 | | | 11/19/21 20:03 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 14 | 2.8 | ug/m3 | | | 11/19/21 20:03 | 1 |
| 1,2-Dibromoethane | ND | | 3.8 | 1.3 | ug/m3 | | | 11/19/21 20:03 | 1 |
| 1,2-Dichlorobenzene | ND | | 3.0 | 1.5 | ug/m3 | | | 11/19/21 20:03 | 1 |
| 1,2-Dichloroethane | ND | | 2.0 | 0.59 | ug/m3 | | | 11/19/21 20:03 | 1 |
| 1,2-Dichloropropane | ND | | 2.3 | 0.64 | ug/m3 | | | 11/19/21 20:03 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 2.5 | 1.0 | ug/m3 | | | 11/19/21 20:03 | 1 |
| 1,3-Dichlorobenzene | ND | | 3.0 | 1.5 | ug/m3 | | | 11/19/21 20:03 | 1 |
| 1,4-Dichlorobenzene | ND | | 3.0 | 1.5 | ug/m3 | | | 11/19/21 20:03 | 1 |
| **2-Butanone** | **4.1** | **J** | 4.4 | 1.2 | ug/m3 | | | 11/19/21 20:03 | 1 |
| 2-Hexanone | ND | | 6.1 | 2.6 | ug/m3 | | | 11/19/21 20:03 | 1 |
| 4-Ethyltoluene | ND | | 2.5 | 1.2 | ug/m3 | | | 11/19/21 20:03 | 1 |
| 4-Methyl-2-pentanone | ND | | 6.1 | 2.3 | ug/m3 | | | 11/19/21 20:03 | 1 |
| **Acetone** | **17** | | 4.8 | 0.94 | ug/m3 | | | 11/19/21 20:03 | 1 |
| **Benzene** | **11** | | 1.6 | 0.50 | ug/m3 | | | 11/19/21 20:03 | 1 |
| Benzyl chloride | ND | | 7.8 | 2.7 | ug/m3 | | | 11/19/21 20:03 | 1 |
| Bromodichloromethane | ND | | 3.4 | 0.74 | ug/m3 | | | 11/19/21 20:03 | 1 |
| Bromoform | ND | | 5.2 | 1.8 | ug/m3 | | | 11/19/21 20:03 | 1 |
| Bromomethane | ND | | 1.9 | 0.54 | ug/m3 | | | 11/19/21 20:03 | 1 |
| c-1,2-Dichloroethene | ND | | 2.0 | 0.54 | ug/m3 | | | 11/19/21 20:03 | 1 |
| c-1,3-Dichloropropene | ND | | 2.3 | 0.98 | ug/m3 | | | 11/19/21 20:03 | 1 |
| **Carbon disulfide** | **4.0** | **J** | 6.2 | 0.58 | ug/m3 | | | 11/19/21 20:03 | 1 |
| Carbon tetrachloride | ND | | 3.1 | 1.3 | ug/m3 | | | 11/19/21 20:03 | 1 |
| Chlorobenzene | ND | | 2.3 | 0.60 | ug/m3 | | | 11/19/21 20:03 | 1 |
| Chloroethane | ND | | 1.3 | 0.45 | ug/m3 | | | 11/19/21 20:03 | 1 |
| **Chloroform** | **3.2** | | 2.4 | 0.78 | ug/m3 | | | 11/19/21 20:03 | 1 |
| Chloromethane | ND | | 1.0 | 0.33 | ug/m3 | | | 11/19/21 20:03 | 1 |
| Dibromochloromethane | ND | | 4.3 | 1.3 | ug/m3 | | | 11/19/21 20:03 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Client Sample ID: SG08-3.5-20211118**
**Lab Sample ID: 570-76420-4**
**Date Collected: 11/18/21 14:43**
**Matrix: Air**
**Date Received: 11/19/21 07:43**
**Sample Container: Summa Canister 1L**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **2.4** | **J** | 2.5 | 0.98 | ug/m3 | | | 11/19/21 20:03 | 1 |
| Dichlorotetrafluoroethane | ND | | 14 | 1.3 | ug/m3 | | | 11/19/21 20:03 | 1 |
| **Ethylbenzene** | **2.2** | | 2.2 | 1.1 | ug/m3 | | | 11/19/21 20:03 | 1 |
| Hexachlorobutadiene | ND | | 16 | 6.2 | ug/m3 | | | 11/19/21 20:03 | 1 |
| **Isopropanol** | **1.4** | **J** | 12 | 0.96 | ug/m3 | | | 11/19/21 20:03 | 1 |
| **m,p-Xylene** | **6.9** | **J** | 8.7 | 2.7 | ug/m3 | | | 11/19/21 20:03 | 1 |
| Methylene Chloride | ND | | 17 | 6.9 | ug/m3 | | | 11/19/21 20:03 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 7.2 | 1.2 | ug/m3 | | | 11/19/21 20:03 | 1 |
| Naphthalene | ND | | 6.6 | 3.1 | ug/m3 | | | 11/19/21 20:03 | 1 |
| n-Butylbenzene | ND | | 8.2 | 2.3 | ug/m3 | | | 11/19/21 20:03 | 1 |
| **o-Xylene** | **2.2** | | 2.2 | 0.86 | ug/m3 | | | 11/19/21 20:03 | 1 |
| sec-Butylbenzene | ND | | 8.2 | 1.6 | ug/m3 | | | 11/19/21 20:03 | 1 |
| Styrene | ND | | 6.4 | 2.3 | ug/m3 | | | 11/19/21 20:03 | 1 |
| t-1,2-Dichloroethene | ND | | 2.0 | 0.50 | ug/m3 | | | 11/19/21 20:03 | 1 |
| t-1,3-Dichloropropene | ND | | 4.5 | 0.96 | ug/m3 | | | 11/19/21 20:03 | 1 |
| tert-Butylbenzene | ND | | 8.2 | 1.5 | ug/m3 | | | 11/19/21 20:03 | 1 |
| **Tetrachloroethene** | **1.5** | **J** | 3.4 | 1.1 | ug/m3 | | | 11/19/21 20:03 | 1 |
| **Toluene** | **16** | | 1.9 | 0.50 | ug/m3 | | | 11/19/21 20:03 | 1 |
| Trichloroethene | ND | | 2.7 | 0.96 | ug/m3 | | | 11/19/21 20:03 | 1 |
| Trichlorofluoromethane | ND | | 5.6 | 1.3 | ug/m3 | | | 11/19/21 20:03 | 1 |
| Vinyl acetate | ND | | 7.0 | 1.2 | ug/m3 | | | 11/19/21 20:03 | 1 |
| Vinyl chloride | ND | | 1.3 | 0.41 | ug/m3 | | | 11/19/21 20:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *66 - 132* | | *11/19/21 20:03* | *1* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *70 - 130* | | *11/19/21 20:03* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *70 - 130* | | *11/19/21 20:03* | *1* |

# Surrogate Summary

Client: Ramboll US Corporation
Project/Site: SCDC – Valley Gardens / 1690021780

Job ID: 570-76420-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

**Matrix: Air**

**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | |
|---|---|---|---|---|
| | | DCA | BFB | TOL |
| Lab Sample ID | Client Sample ID | (66-132) | (70-130) | (70-130) |
| 570-76420-1 | SG07-4.5-20211118 | 100 | 99 | 99 |
| 570-76420-2 | SG10-7.0-20211118 | 100 | 102 | 97 |
| 570-76420-3 | SG09-4.5-20211118 | 98 | 100 | 95 |
| 570-76420-4 | SG08-3.5-20211118 | 99 | 100 | 97 |
| LCS 570-195511/3 | Lab Control Sample | 98 | 95 | 98 |
| LCSD 570-195511/4 | Lab Control Sample Dup | 98 | 94 | 99 |
| MB 570-195511/6 | Method Blank | 98 | 98 | 95 |

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

**Lab Sample ID: MB 570-195511/6**
**Matrix: Air**
**Analysis Batch: 195511**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 2.7 | 0.79 | ug/m3 | | | 11/19/21 16:25 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 6.9 | 1.1 | ug/m3 | | | 11/19/21 16:25 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 11 | 2.3 | ug/m3 | | | 11/19/21 16:25 | 1 |
| 1,1,2-Trichloroethane | ND | | 2.7 | 0.76 | ug/m3 | | | 11/19/21 16:25 | 1 |
| 1,1-Dichloroethane | ND | | 2.0 | 0.42 | ug/m3 | | | 11/19/21 16:25 | 1 |
| 1,1-Dichloroethene | ND | | 2.0 | 0.69 | ug/m3 | | | 11/19/21 16:25 | 1 |
| 1,1-Difluoroethane | ND | | 5.4 | 0.99 | ug/m3 | | | 11/19/21 16:25 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 15 | 4.9 | ug/m3 | | | 11/19/21 16:25 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 7.4 | 1.6 | ug/m3 | | | 11/19/21 16:25 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 14 | 2.8 | ug/m3 | | | 11/19/21 16:25 | 1 |
| 1,2-Dibromoethane | ND | | 3.8 | 1.3 | ug/m3 | | | 11/19/21 16:25 | 1 |
| 1,2-Dichlorobenzene | ND | | 3.0 | 1.5 | ug/m3 | | | 11/19/21 16:25 | 1 |
| 1,2-Dichloroethane | ND | | 2.0 | 0.59 | ug/m3 | | | 11/19/21 16:25 | 1 |
| 1,2-Dichloropropane | ND | | 2.3 | 0.64 | ug/m3 | | | 11/19/21 16:25 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 2.5 | 1.0 | ug/m3 | | | 11/19/21 16:25 | 1 |
| 1,3-Dichlorobenzene | ND | | 3.0 | 1.5 | ug/m3 | | | 11/19/21 16:25 | 1 |
| 1,4-Dichlorobenzene | ND | | 3.0 | 1.5 | ug/m3 | | | 11/19/21 16:25 | 1 |
| 2-Butanone | ND | | 4.4 | 1.2 | ug/m3 | | | 11/19/21 16:25 | 1 |
| 2-Hexanone | ND | | 6.1 | 2.6 | ug/m3 | | | 11/19/21 16:25 | 1 |
| 4-Ethyltoluene | ND | | 2.5 | 1.2 | ug/m3 | | | 11/19/21 16:25 | 1 |
| 4-Methyl-2-pentanone | ND | | 6.1 | 2.3 | ug/m3 | | | 11/19/21 16:25 | 1 |
| Acetone | ND | | 4.8 | 0.94 | ug/m3 | | | 11/19/21 16:25 | 1 |
| Benzene | ND | | 1.6 | 0.50 | ug/m3 | | | 11/19/21 16:25 | 1 |
| Benzyl chloride | ND | | 7.8 | 2.7 | ug/m3 | | | 11/19/21 16:25 | 1 |
| Bromodichloromethane | ND | | 3.4 | 0.74 | ug/m3 | | | 11/19/21 16:25 | 1 |
| Bromoform | ND | | 5.2 | 1.8 | ug/m3 | | | 11/19/21 16:25 | 1 |
| Bromomethane | ND | | 1.9 | 0.54 | ug/m3 | | | 11/19/21 16:25 | 1 |
| c-1,2-Dichloroethene | ND | | 2.0 | 0.54 | ug/m3 | | | 11/19/21 16:25 | 1 |
| c-1,3-Dichloropropene | ND | | 2.3 | 0.98 | ug/m3 | | | 11/19/21 16:25 | 1 |
| Carbon disulfide | ND | | 6.2 | 0.58 | ug/m3 | | | 11/19/21 16:25 | 1 |
| Carbon tetrachloride | ND | | 3.1 | 1.3 | ug/m3 | | | 11/19/21 16:25 | 1 |
| Chlorobenzene | ND | | 2.3 | 0.60 | ug/m3 | | | 11/19/21 16:25 | 1 |
| Chloroethane | ND | | 1.3 | 0.45 | ug/m3 | | | 11/19/21 16:25 | 1 |
| Chloroform | ND | | 2.4 | 0.78 | ug/m3 | | | 11/19/21 16:25 | 1 |
| Chloromethane | ND | | 1.0 | 0.33 | ug/m3 | | | 11/19/21 16:25 | 1 |
| Dibromochloromethane | ND | | 4.3 | 1.3 | ug/m3 | | | 11/19/21 16:25 | 1 |
| Dichlorodifluoromethane | ND | | 2.5 | 0.98 | ug/m3 | | | 11/19/21 16:25 | 1 |
| Dichlorotetrafluoroethane | ND | | 14 | 1.3 | ug/m3 | | | 11/19/21 16:25 | 1 |
| Ethylbenzene | ND | | 2.2 | 1.1 | ug/m3 | | | 11/19/21 16:25 | 1 |
| Hexachlorobutadiene | ND | | 16 | 6.2 | ug/m3 | | | 11/19/21 16:25 | 1 |
| Isopropanol | ND | | 12 | 0.96 | ug/m3 | | | 11/19/21 16:25 | 1 |
| m,p-Xylene | ND | | 8.7 | 2.7 | ug/m3 | | | 11/19/21 16:25 | 1 |
| Methylene Chloride | ND | | 17 | 6.9 | ug/m3 | | | 11/19/21 16:25 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 7.2 | 1.2 | ug/m3 | | | 11/19/21 16:25 | 1 |
| Naphthalene | ND | | 6.6 | 3.1 | ug/m3 | | | 11/19/21 16:25 | 1 |
| n-Butylbenzene | ND | | 8.2 | 2.3 | ug/m3 | | | 11/19/21 16:25 | 1 |
| o-Xylene | ND | | 2.2 | 0.86 | ug/m3 | | | 11/19/21 16:25 | 1 |
| sec-Butylbenzene | ND | | 8.2 | 1.6 | ug/m3 | | | 11/19/21 16:25 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 570-195511/6**
**Matrix: Air**
**Analysis Batch: 195511**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Styrene | ND | | 6.4 | 2.3 | ug/m3 | | | 11/19/21 16:25 | 1 |
| t-1,2-Dichloroethene | ND | | 2.0 | 0.50 | ug/m3 | | | 11/19/21 16:25 | 1 |
| t-1,3-Dichloropropene | ND | | 4.5 | 0.96 | ug/m3 | | | 11/19/21 16:25 | 1 |
| tert-Butylbenzene | ND | | 8.2 | 1.5 | ug/m3 | | | 11/19/21 16:25 | 1 |
| Tetrachloroethene | ND | | 3.4 | 1.1 | ug/m3 | | | 11/19/21 16:25 | 1 |
| Toluene | ND | | 1.9 | 0.50 | ug/m3 | | | 11/19/21 16:25 | 1 |
| Trichloroethene | ND | | 2.7 | 0.96 | ug/m3 | | | 11/19/21 16:25 | 1 |
| Trichlorofluoromethane | ND | | 5.6 | 1.3 | ug/m3 | | | 11/19/21 16:25 | 1 |
| Vinyl acetate | ND | | 7.0 | 1.2 | ug/m3 | | | 11/19/21 16:25 | 1 |
| Vinyl chloride | ND | | 1.3 | 0.41 | ug/m3 | | | 11/19/21 16:25 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *98* | | *66 - 132* | | *11/19/21 16:25* | *1* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *70 - 130* | | *11/19/21 16:25* | *1* |
| *Toluene-d8 (Surr)* | *95* | | *70 - 130* | | *11/19/21 16:25* | *1* |

**Lab Sample ID: LCS 570-195511/3**
**Matrix: Air**
**Analysis Batch: 195511**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 136 | 138.0 | | ug/m3 | | 101 | 67 - 135 |
| 1,1,2,2-Tetrachloroethane | 172 | 168.4 | | ug/m3 | | 98 | 70 - 130 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 192 | 187.0 | | ug/m3 | | 98 | 70 - 130 |
| 1,1,2-Trichloroethane | 136 | 132.6 | | ug/m3 | | 97 | 69 - 131 |
| 1,1-Dichloroethane | 101 | 101.9 | | ug/m3 | | 101 | 69 - 130 |
| 1,1-Dichloroethene | 99.1 | 102.1 | | ug/m3 | | 103 | 64 - 135 |
| 1,1-Difluoroethane | 67.5 | 72.18 | | ug/m3 | | 107 | 57 - 146 |
| 1,2,4-Trichlorobenzene | 186 | 182.7 | | ug/m3 | | 98 | 51 - 134 |
| 1,2,4-Trimethylbenzene | 123 | 114.1 | | ug/m3 | | 93 | 68 - 130 |
| 1,2-Dibromo-3-Chloropropane | 242 | 240.0 | | ug/m3 | | 99 | 66 - 130 |
| 1,2-Dibromoethane | 192 | 197.3 | | ug/m3 | | 103 | 70 - 130 |
| 1,2-Dichlorobenzene | 150 | 147.1 | | ug/m3 | | 98 | 68 - 130 |
| 1,2-Dichloroethane | 101 | 103.5 | | ug/m3 | | 102 | 65 - 136 |
| 1,2-Dichloropropane | 116 | 115.4 | | ug/m3 | | 100 | 68 - 132 |
| 1,3,5-Trimethylbenzene | 123 | 115.5 | | ug/m3 | | 94 | 69 - 130 |
| 1,3-Dichlorobenzene | 150 | 146.8 | | ug/m3 | | 98 | 65 - 130 |
| 1,4-Dichlorobenzene | 150 | 147.4 | | ug/m3 | | 98 | 64 - 130 |
| 2-Butanone | 73.7 | 74.38 | | ug/m3 | | 101 | 66 - 143 |
| 2-Hexanone | 102 | 95.87 | | ug/m3 | | 94 | 64 - 139 |
| 4-Ethyltoluene | 123 | 117.2 | | ug/m3 | | 95 | 69 - 130 |
| 4-Methyl-2-pentanone | 102 | 99.30 | | ug/m3 | | 97 | 65 - 135 |
| Acetone | 59.4 | 59.81 | | ug/m3 | | 101 | 70 - 130 |
| Benzene | 79.9 | 77.11 | | ug/m3 | | 97 | 68 - 134 |
| Benzyl chloride | 129 | 119.1 | | ug/m3 | | 92 | 70 - 130 |
| Bromodichloromethane | 168 | 165.0 | | ug/m3 | | 99 | 69 - 132 |
| Bromoform | 258 | 255.6 | | ug/m3 | | 99 | 70 - 130 |
| Bromomethane | 97.1 | 96.28 | | ug/m3 | | 99 | 65 - 130 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 570-195511/3**
**Matrix: Air**
**Analysis Batch: 195511**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| c-1,2-Dichloroethene | 99.1 | 103.0 | | ug/m3 | | 104 | 70 - 130 |
| c-1,3-Dichloropropene | 113 | 111.8 | | ug/m3 | | 99 | 70 - 134 |
| Carbon disulfide | 77.9 | 75.32 | | ug/m3 | | 97 | 70 - 130 |
| Carbon tetrachloride | 157 | 153.8 | | ug/m3 | | 98 | 68 - 133 |
| Chlorobenzene | 115 | 120.6 | | ug/m3 | | 105 | 70 - 130 |
| Chloroethane | 66.0 | 61.81 | | ug/m3 | | 94 | 66 - 134 |
| Chloroform | 122 | 118.0 | | ug/m3 | | 97 | 67 - 131 |
| Chloromethane | 51.6 | 52.90 | | ug/m3 | | 102 | 60 - 137 |
| Dibromochloromethane | 213 | 212.6 | | ug/m3 | | 100 | 70 - 130 |
| Dichlorodifluoromethane | 124 | 119.0 | | ug/m3 | | 96 | 57 - 138 |
| Dichlorotetrafluoroethane | 175 | 165.0 | | ug/m3 | | 94 | 60 - 133 |
| Ethylbenzene | 109 | 109.2 | | ug/m3 | | 101 | 70 - 130 |
| Hexachlorobutadiene | 267 | 236.4 | | ug/m3 | | 89 | 58 - 130 |
| Isopropanol | 61.5 | 53.41 | | ug/m3 | | 87 | 64 - 133 |
| m,p-Xylene | 217 | 210.0 | | ug/m3 | | 97 | 70 - 130 |
| Methylene Chloride | 86.8 | 81.00 | | ug/m3 | | 93 | 65 - 130 |
| Methyl-t-Butyl Ether (MTBE) | 90.1 | 87.36 | | ug/m3 | | 97 | 70 - 130 |
| Naphthalene | 131 | 130.7 | | ug/m3 | | 100 | 36 - 146 |
| n-Butylbenzene | 137 | 137.9 | | ug/m3 | | 100 | 64 - 130 |
| o-Xylene | 109 | 103.0 | | ug/m3 | | 95 | 68 - 130 |
| sec-Butylbenzene | 137 | 131.8 | | ug/m3 | | 96 | 67 - 130 |
| Styrene | 106 | 106.3 | | ug/m3 | | 100 | 70 - 130 |
| t-1,2-Dichloroethene | 99.1 | 100.7 | | ug/m3 | | 102 | 70 - 130 |
| t-1,3-Dichloropropene | 113 | 112.9 | | ug/m3 | | 100 | 66 - 142 |
| tert-Butylbenzene | 137 | 133.8 | | ug/m3 | | 97 | 70 - 130 |
| Tetrachloroethene | 170 | 163.7 | | ug/m3 | | 97 | 70 - 130 |
| Toluene | 94.2 | 93.03 | | ug/m3 | | 99 | 70 - 130 |
| Trichloroethene | 134 | 131.8 | | ug/m3 | | 98 | 69 - 130 |
| Trichlorofluoromethane | 140 | 130.6 | | ug/m3 | | 93 | 62 - 139 |
| Vinyl acetate | 88.0 | 86.52 | | ug/m3 | | 98 | 64 - 139 |
| Vinyl chloride | 63.9 | 60.82 | | ug/m3 | | 95 | 65 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *98* | | *66 - 132* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *70 - 130* |
| *Toluene-d8 (Surr)* | *98* | | *70 - 130* |

**Lab Sample ID: LCSD 570-195511/4**
**Matrix: Air**
**Analysis Batch: 195511**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 136 | 137.2 | | ug/m3 | | 101 | 67 - 135 | 1 | 25 |
| 1,1,2,2-Tetrachloroethane | 172 | 168.4 | | ug/m3 | | 98 | 70 - 130 | 0 | 25 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 192 | 185.9 | | ug/m3 | | 97 | 70 - 130 | 1 | 25 |
| 1,1,2-Trichloroethane | 136 | 135.7 | | ug/m3 | | 99 | 69 - 131 | 2 | 25 |
| 1,1-Dichloroethane | 101 | 102.0 | | ug/m3 | | 101 | 69 - 130 | 0 | 25 |
| 1,1-Dichloroethene | 99.1 | 102.4 | | ug/m3 | | 103 | 64 - 135 | 0 | 25 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCSD 570-195511/4**
**Matrix: Air**
**Analysis Batch: 195511**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Difluoroethane | 67.5 | 74.72 | | ug/m3 | | 111 | 57 - 146 | 3 | 25 |
| 1,2,4-Trichlorobenzene | 186 | 181.9 | | ug/m3 | | 98 | 51 - 134 | 0 | 25 |
| 1,2,4-Trimethylbenzene | 123 | 114.1 | | ug/m3 | | 93 | 68 - 130 | 0 | 25 |
| 1,2-Dibromo-3-Chloropropane | 242 | 238.8 | | ug/m3 | | 99 | 66 - 130 | 1 | 25 |
| 1,2-Dibromoethane | 192 | 197.3 | | ug/m3 | | 103 | 70 - 130 | 0 | 25 |
| 1,2-Dichlorobenzene | 150 | 147.2 | | ug/m3 | | 98 | 68 - 130 | 0 | 25 |
| 1,2-Dichloroethane | 101 | 104.0 | | ug/m3 | | 103 | 65 - 136 | 0 | 25 |
| 1,2-Dichloropropane | 116 | 116.1 | | ug/m3 | | 101 | 68 - 132 | 1 | 25 |
| 1,3,5-Trimethylbenzene | 123 | 116.2 | | ug/m3 | | 95 | 69 - 130 | 1 | 25 |
| 1,3-Dichlorobenzene | 150 | 146.1 | | ug/m3 | | 97 | 65 - 130 | 0 | 25 |
| 1,4-Dichlorobenzene | 150 | 147.6 | | ug/m3 | | 98 | 64 - 130 | 0 | 25 |
| 2-Butanone | 73.7 | 74.93 | | ug/m3 | | 102 | 66 - 143 | 1 | 25 |
| 2-Hexanone | 102 | 95.74 | | ug/m3 | | 93 | 64 - 139 | 0 | 25 |
| 4-Ethyltoluene | 123 | 118.8 | | ug/m3 | | 97 | 69 - 130 | 1 | 25 |
| 4-Methyl-2-pentanone | 102 | 100.5 | | ug/m3 | | 98 | 65 - 135 | 1 | 25 |
| Acetone | 59.4 | 60.27 | | ug/m3 | | 101 | 70 - 130 | 1 | 25 |
| Benzene | 79.9 | 77.75 | | ug/m3 | | 97 | 68 - 134 | 1 | 25 |
| Benzyl chloride | 129 | 119.4 | | ug/m3 | | 92 | 70 - 130 | 0 | 25 |
| Bromodichloromethane | 168 | 165.3 | | ug/m3 | | 99 | 69 - 132 | 0 | 25 |
| Bromoform | 258 | 250.8 | | ug/m3 | | 97 | 70 - 130 | 2 | 25 |
| Bromomethane | 97.1 | 96.81 | | ug/m3 | | 100 | 65 - 130 | 1 | 25 |
| c-1,2-Dichloroethene | 99.1 | 102.0 | | ug/m3 | | 103 | 70 - 130 | 1 | 25 |
| c-1,3-Dichloropropene | 113 | 113.6 | | ug/m3 | | 100 | 70 - 134 | 2 | 25 |
| Carbon disulfide | 77.9 | 75.15 | | ug/m3 | | 97 | 70 - 130 | 0 | 25 |
| Carbon tetrachloride | 157 | 154.3 | | ug/m3 | | 98 | 68 - 133 | 0 | 25 |
| Chlorobenzene | 115 | 120.4 | | ug/m3 | | 105 | 70 - 130 | 0 | 25 |
| Chloroethane | 66.0 | 63.05 | | ug/m3 | | 96 | 66 - 134 | 2 | 25 |
| Chloroform | 122 | 116.8 | | ug/m3 | | 96 | 67 - 131 | 1 | 25 |
| Chloromethane | 51.6 | 52.59 | | ug/m3 | | 102 | 60 - 137 | 1 | 25 |
| Dibromochloromethane | 213 | 212.3 | | ug/m3 | | 100 | 70 - 130 | 0 | 25 |
| Dichlorodifluoromethane | 124 | 119.3 | | ug/m3 | | 97 | 57 - 138 | 0 | 25 |
| Dichlorotetrafluoroethane | 175 | 166.8 | | ug/m3 | | 95 | 60 - 133 | 1 | 25 |
| Ethylbenzene | 109 | 106.8 | | ug/m3 | | 98 | 70 - 130 | 2 | 25 |
| Hexachlorobutadiene | 267 | 234.6 | | ug/m3 | | 88 | 58 - 130 | 1 | 25 |
| Isopropanol | 61.5 | 54.43 | | ug/m3 | | 89 | 64 - 133 | 2 | 25 |
| m,p-Xylene | 217 | 206.5 | | ug/m3 | | 95 | 70 - 130 | 2 | 25 |
| Methylene Chloride | 86.8 | 80.96 | | ug/m3 | | 93 | 65 - 130 | 0 | 25 |
| Methyl-t-Butyl Ether (MTBE) | 90.1 | 87.89 | | ug/m3 | | 98 | 70 - 130 | 1 | 25 |
| Naphthalene | 131 | 129.3 | | ug/m3 | | 99 | 36 - 146 | 1 | 25 |
| n-Butylbenzene | 137 | 136.3 | | ug/m3 | | 99 | 64 - 130 | 1 | 25 |
| o-Xylene | 109 | 102.3 | | ug/m3 | | 94 | 68 - 130 | 1 | 25 |
| sec-Butylbenzene | 137 | 132.5 | | ug/m3 | | 97 | 67 - 130 | 1 | 25 |
| Styrene | 106 | 105.2 | | ug/m3 | | 99 | 70 - 130 | 1 | 25 |
| t-1,2-Dichloroethene | 99.1 | 100.1 | | ug/m3 | | 101 | 70 - 130 | 1 | 25 |
| t-1,3-Dichloropropene | 113 | 114.8 | | ug/m3 | | 101 | 66 - 142 | 2 | 25 |
| tert-Butylbenzene | 137 | 134.6 | | ug/m3 | | 98 | 70 - 130 | 1 | 25 |
| Tetrachloroethene | 170 | 164.1 | | ug/m3 | | 97 | 70 - 130 | 0 | 25 |
| Toluene | 94.2 | 93.38 | | ug/m3 | | 99 | 70 - 130 | 0 | 25 |
| Trichloroethene | 134 | 131.0 | | ug/m3 | | 97 | 69 - 130 | 1 | 25 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCSD 570-195511/4**
**Matrix: Air**
**Analysis Batch: 195511**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Trichlorofluoromethane | | | 140 | 130.6 | | ug/m3 | | 93 | 62 - 139 | 0 | 25 |
| Vinyl acetate | | | 88.0 | 87.31 | | ug/m3 | | 99 | 64 - 139 | 1 | 25 |
| Vinyl chloride | | | 63.9 | 61.96 | | ug/m3 | | 97 | 65 - 130 | 2 | 25 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *98* | | *66 - 132* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *70 - 130* |
| *Toluene-d8 (Surr)* | *99* | | *70 - 130* |

# QC Association Summary

Client: Ramboll US Corporation
Job ID: 570-76420-1
Project/Site: SCDC – Valley Gardens / 1690021780

## Air - GC/MS VOA

### Analysis Batch: 195511

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 570-76420-1 | SG07-4.5-20211118 | Total/NA | Air | TO-15 | |
| 570-76420-2 | SG10-7.0-20211118 | Total/NA | Air | TO-15 | |
| 570-76420-3 | SG09-4.5-20211118 | Total/NA | Air | TO-15 | |
| 570-76420-4 | SG08-3.5-20211118 | Total/NA | Air | TO-15 | |
| MB 570-195511/6 | Method Blank | Total/NA | Air | TO-15 | |
| LCS 570-195511/3 | Lab Control Sample | Total/NA | Air | TO-15 | |
| LCSD 570-195511/4 | Lab Control Sample Dup | Total/NA | Air | TO-15 | |

# Lab Chronicle

Client: Ramboll US Corporation
Project/Site: SCDC – Valley Gardens / 1690021780

Job ID: 570-76420-1

## Client Sample ID: SG07-4.5-20211118
**Lab Sample ID: 570-76420-1**
**Date Collected: 11/18/21 11:22**
**Matrix: Air**
**Date Received: 11/19/21 07:43**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 250 mL | 250 mL | 195511 | 11/19/21 17:19 | UHOG | ECL 2 |
| | Instrument ID: GCMSHH | | | | | | | | | |

## Client Sample ID: SG10-7.0-20211118
**Lab Sample ID: 570-76420-2**
**Date Collected: 11/18/21 13:12**
**Matrix: Air**
**Date Received: 11/19/21 07:43**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 5 | 250 mL | 250 mL | 195511 | 11/19/21 18:09 | UHOG | ECL 2 |
| | Instrument ID: GCMSHH | | | | | | | | | |

## Client Sample ID: SG09-4.5-20211118
**Lab Sample ID: 570-76420-3**
**Date Collected: 11/18/21 14:00**
**Matrix: Air**
**Date Received: 11/19/21 07:43**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 5 | 250 mL | 250 mL | 195511 | 11/19/21 19:04 | UHOG | ECL 2 |
| | Instrument ID: GCMSHH | | | | | | | | | |

## Client Sample ID: SG08-3.5-20211118
**Lab Sample ID: 570-76420-4**
**Date Collected: 11/18/21 14:43**
**Matrix: Air**
**Date Received: 11/19/21 07:43**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 250 mL | 250 mL | 195511 | 11/19/21 20:03 | UHOG | ECL 2 |
| | Instrument ID: GCMSHH | | | | | | | | | |

**Laboratory References:**

ECL 2 = Eurofins Calscience LLC  Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

# Accreditation/Certification Summary

Client: Ramboll US Corporation
Job ID: 570-76420-1
Project/Site: SCDC – Valley Gardens / 1690021780

## Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Oregon | NELAP | CA300001 | 01-30-22 |

# Method Summary

Client: Ramboll US Corporation
Job ID: 570-76420-1
Project/Site: SCDC – Valley Gardens / 1690021780

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| TO-15 | Volatile Organic Compounds in Ambient Air | EPA | ECL 2 |

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

ECL 2 = Eurofins Calscience LLC  Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

# Sample Summary

Client: Ramboll US Corporation
Job ID: 570-76420-1
Project/Site: SCDC – Valley Gardens / 1690021780

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---|---|---|---|---|---|
| 570-76420-1 | SG07-4.5-20211118 | Air | 11/18/21 11:22 | 11/19/21 07:43 | Air Canister (1-Liter) #LC226 |
| 570-76420-2 | SG10-7.0-20211118 | Air | 11/18/21 13:12 | 11/19/21 07:43 | Air Canister (1-Liter) #LC605 |
| 570-76420-3 | SG09-4.5-20211118 | Air | 11/18/21 14:00 | 11/19/21 07:43 | Air Canister (1-Liter) #LC1200 |
| 570-76420-4 | SG08-3.5-20211118 | Air | 11/18/21 14:43 | 11/19/21 07:43 | Air Canister (1-Liter) #LC132 |

## Patel, Vikas

**From:** Jason Kane <JPKane@ramboll.com>
**Sent:** Tuesday, November 23, 2021 1:33 PM
**To:** Patel, Vikas
**Subject:** FW: Eurofins Calscience EDD and report files from 570-76420-1 SCDC – Valley Gardens / 1690021780
**Attachments:** J76420-1 UDS Level 2 Report Final Report.pdf

Hi Vik,
Can you please report MDLs on this pdf?

Thanks,
Jason

---

**From:** Vikas Patel <vikas.patel@eurofinset.com>
**Sent:** Monday, November 22, 2021 3:55 PM
**To:** Jason Kane <jpkane@ramboll.com>; Zoe Pfahler <Zpfahler@ramboll.com>
**Subject:** Eurofins Calscience EDD and report files from 570-76420-1 SCDC – Valley Gardens / 1690021780

Hello,

Attached please find the EDD and report files for job 570-76420-1; SCDC – Valley Gardens / 1690021780

Please feel free to contact me if you have any questions.

Thank you.

**Vikas Patel**
Project Manager

Eurofins Calscience LLC
Phone: 714-895-5494

E-mail: vikas.patel@eurofinset.com
www.eurofinsus.com/env

eurofins | Calscience

7440 Lincoln Way Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

570-76420 Chain of Custody

# 76420

## AIR CHAIN-OF-CUSTODY RECORD

DATE: 11.18.21

PAGE: 1 OF 1

| | |
|---|---|
| LABORATORY CLIENT: Ramboll | CLIENT PROJECT NAME / NO.: Valley Gardens |
| ADDRESS: 2200 Powell St. Suite 700 | PO NO: 1690021780 |
| CITY: Emeryville STATE: CA ZIP: 94608 | PROJECT CONTACT: Jason Kane |
| TEL. | E-MAIL: JPKane@ramboll.com |
| | LAB CONTACT OR QUOTE NO: Vikas Patel |
| | PROJECT ADDRESS: 203 Mt Hermon Rd |
| | SAMPLER(S) (PRINT): Zoe Pfahler |
| | CITY: Scotts Valley STATE: CA ZIP: |

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

EDD: ☐ COELT EDF ☐ OTHER

UNITS:

SPECIAL INSTRUCTIONS:

Report results to.
JPKane } @ ramboll.com
ZPfahler }

REQUESTED ANALYSES: VOCs (TO-15)

| LAB USE ONLY | SAMPLE ID | FIELD ID / POINT OF COLLECTION | MATRIX: Indoor (I) Soil Vap (SV) Ambient (A) | SAMPLING EQUIPMENT: Media ID | Canister Size 6L or 1L | Flow Controller ID | START SAMPLING INFORMATION: Date | Time (24 hr clock) | Canister Pressure (in Hg) | STOP SAMPLING INFORMATION: Date | Time (24 hr clock) | Canister Pressure (in Hg) | VOCs (TO-15) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SG07-4.5-20211118 | SG07 | SV | LC226 | 1L | SGM022 | 11.18.21 | 1118 | -30 | 11.18.21 | 1122 | -4 | X |
| 2 | SG10-7.0-20211118 | SG10 | SV | LC605 | 1L | SGM425 | 11.18.21 | 1301 | -30 | 11.18.21 | 1312 | -3 | X |
| 3 | SG09-4.5-20211118 | SG09 | SV | LC1200 | 1L | SGM308 | 11.18.21 | 1356 | -30 | 11.18.21 | 1400 | -3 | X |
| 4 | SG08-3.5-20211118 | SG08 | SV | LC132 | 1L | SGM192 | 11.18.21 | 1437 | -30 | 11.18.21 | 1443 | -3 | X |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) FedEx | Date: 11.18.21 | Time: 1630 |
| Relinquished by: (Signature) | Received by: (Signature/Affiliation) | Date: 11/19/21 | Time: 0743 |
| Relinquished by (Signature) | Received by: (Signature/Affiliation) | Date: | Time: |

76420


ORIGIN ID:SNSA (000) 000-0000

RAMBOLL
2200 POWELL ST STE 700

EMERYVILLE, CA 94608
UNITED STATES US

SHIP DATE: 18NOV21
ACTWGT: 13.60 LB
CAD: 6990709/SSFO2220
DIMS: 15x12x11 IN

BILL THIRD PARTY

Part # 156297-435 FedEx

TO EUROFINS
EUROFINS
7440 LINCOLN WAY

GARDEN GROVE CA 92841

(714) 895-5494 REF:

INV:
PO: DEPT:

570-76420 Waybill

FedEx Express

REL# 3785346

FRI - 19 NOV 9:30A
FIRST OVERNIGHT

TRK# 0201 2863 1893 0042

W1 APVA

92841
CA-US SNA

# Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 570-76420-1

**Login Number: 76420**
**List Number: 1**
**Creator: Vitente, Precy**

**List Source: Eurofins Calscience LLC**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | False | Thermal preservation not required. |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | False | Refer to Job Narrative for details. |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Summa Canister Dilution Worksheet

Client: Ramboll US Corporation
Project/Site: SCDC – Valley Gardens / 1690021780

Job No.: 570-76420-1

| Lab Sample ID | Canister Volume (L) | Presampling Pressure ("Hg) | Preadjusted Pressure ("Hg) | Preadjusted Pressure (atm) | Preadjusted Volume (L) | Adjusted Pressure (psig) | Adjusted Pressure (atm) | Adjusted Volume (L) | Initial Volume (mL) | Dilution Factor | Final Dilution Factor | Pressure Gauge ID | Date | Analyst Initials |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 570-76420-1 | 1 | -29.5 | -2.2 | 0.93 | 0.93 | -1.08054 | 0.93 | 0.93 | | 1.00 | 1.00 | AIR MG-6 | 11/19/21 16:11 | QD3U |
| 570-76420-2 | 1 | -29.5 | -2.8 | 0.91 | 0.91 | -1.37523 | 0.91 | 0.91 | | 1.00 | 1.00 | AIR MG-6 | 11/19/21 16:12 | QD3U |
| 570-76420-2 | 1 | -29.5 | -1.8 | 0.94 | 0.94 | 1.8 | 1.12 | 1.12 | | 1.19 | 1.19 | AIR MG-6 | 11/20/21 20:55 | QD3U |
| 570-76420-3 | 1 | -29.5 | -2.6 | 0.91 | 0.91 | -1.277 | 0.91 | 0.91 | | 1.00 | 1.00 | AIR MG-6 | 11/19/21 16:13 | QD3U |
| 570-76420-3 | 1 | -29.5 | -2.8 | 0.91 | 0.91 | 2.3 | 1.16 | 1.16 | | 1.28 | 1.28 | AIR MG-6 | 11/20/21 20:55 | QD3U |
| 570-76420-4 | 1 | -29.5 | -1 | 0.97 | 0.97 | -0.491154 | 0.97 | 0.97 | | 1.00 | 1.00 | AIR MG-6 | 11/19/21 16:13 | QD3U |

**Formulae:**

Preadjusted Volume (L) = ((Preadjusted Pressure ("Hg) + 29.92 "Hg) * Vol L ) / 29.92 "Hg
Adjusted Volume (L) = (( Adjusted Pressure (psig) + 14.7 psig )* Vol L ) / 14.7 psig
Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

**Where:**

29.92 "Hg = Standard atmospheric pressure in inches of Mercury (“Hg)
14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

# APPENDIX G
# QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

RAMBOLL

ENVIRONMENT & HEALTH

# ANNE W GATES, P.E.

**Senior Managing Consultant**




**CONTACT INFORMATION**
**Anne W Gates**

agates@ramboll.com
+1 (510) 4202524

Ramboll Environ
2200 Powell Street
Suite 700
Emeryville, CA 94608
United States of America


Anne Gates has been a licensed professional engineer in California since 1987, with over 30 years of experience in consulting engineering related to environmental investigations, feasibility study analyses, civil/environmental design and remediation construction. For both private- and public-sector clients, she provides overall technical management related to site investigation and remediation of contaminated property. She has prepared feasibility studies (FS), engineering evaluations/cost analysis (EE/CA) reports and remedial action plans (RAPs) to analyze and select alternatives for site remediation. The alternatives evaluated in these reports have included innovative technologies, risk management strategies and traditional remedies. For the past 10 years, Anne's environmental engineering work has focused on decommissioning, closure and remediation of sites for the purposes of redevelopment. These projects have included preparation of detailed cost estimates for the design, construction and monitoring of environmental remediation alternatives. She has also provided expert testimony on projects involving environmental investigation, cost recovery and remediation.

## YEARS IN RAMBOLL

25

## EDUCATION

1988
**MS, Civil Engineering (Oceans and Hydraulics)**
University of California, Berkeley, California

1984
**BS, Civil Engineering**
Stanford University, Stanford, California

## COURSES/CERTIFICATIONS

Professional Engineer - Washington
Professional Engineer - Hawaii
Professional Engineer - California
Professional Engineer - Alaska (retired status)

## LITIGATION EXPERIENCE

Ms. Gates experience has provided litigation support in cases involving the responsibility, extent and remediation costs of soil and ground water contamination, consistency of remedial investigations and remedial/removal actions with the NCP, and Superfund cost allocation. Representative project examples are as follows:

- Served as an expert witness (included deposition and trial testimony) for Valley Industrial Services in Ameripride Services, Inc. versus Valley Industrial Services, Inc., US District Court, Eastern District of California, 2011 to March 2012. The case involved an assessment of the source of impacts from a wastewater system operated by a former dry cleaner and industrial laundry.
- Served as an expert witness (included deposition and trial testimony) for Chevron USA in Panetta versus Chevron USA, Superior Court of California, San Joaquin County, 2010 to present. The case involves an assessment of the source of hydrocarbon impacts to property owned by the Panetta family.
- Served as an expert witness (included deposition and pending trial testimony) for Chevron USA, in GCM Air Group versus Chevron USA, US District Court, Nevada, 2007 to present. The case involves an assessment of Chevron remediation activities at a site in Incline Village, Nevada.
- Served as an expert witness (included deposition and pending trial testimony) for Universal Paragon Corp. versus Ingersoll-Rand- US District Court, Northern District, 2006 to present. The case involves environmental remediation costs related to redevelopment of property in San Francisco, California.
- Served as an expert witness (included deposition and trial testimony) for Bay Street Partners versus Kemper Surplus Lines- US District Court, Northern District in 2004. The case involved environmental remediation and cost allocation related to redevelopment of property in Emeryville, California.
- Prepared and evaluated the potential cost differentials related to the presence of residual contamination associated with a condemnation valuation of a property acquired by the NAPA County Flood Control District.
- Provided litigation support regarding the extent and source of petroleum releases at a site adjacent to San Diego Bay.
- Provided litigation support regarding the extent and source of contamination and the allocation of remedial costs among various PRPs at a former foundry and wood-stove manufacturing site in Alameda County, California
- Prepared a cost allocation analysis for litigation involving remediation of hydrocarbons at the San Francisco airport.
- Prepared a cost analysis of various cleanup alternatives for cadmium contaminated ground water at a State NPL site in South Carolina.

## FEASIBILITY PROJECT EXAMPLES

**Stringfellow Superfund Site**

- Managed preparation of Supplemental Feasibility Study for the Stringfellow hazardous waste site a former Class I industrial waste disposal facility that operated for 16 years, from 1956 through 1972. Remediation alternatives include landfill capping and groundwater containment (via extraction wells and trenches) for VOCs and perchlorate in groundwater.

**Pearl Harbor NPL Site**

- Prepared feasibility studies for various sites within Pearl Harbor which have involved evaluation/analysis of the following remediation alternatives:
  - Excavation and treatment of contaminated soil (hydrocarbons, PCBs, metals);
  - Ground-water pump and treat systems (wells and trenches);
  - Dual phase extraction of ground-water and free-phase fuel hydrocarbons;
  - Vapor extraction for chlorinated VOCs and hydrocarbons; and
  - Landfill capping and containment systems.

## REUSE / REDEVELOPMENT / SITE CLOSURE PROJECT EXAMPLES

**HGST, San Jose**

- Since 2005, assisted HGST with closure and decommissioning of portions of their industrial facility. Specifically, prepared the environmental documentation related to decommissioning and closure of 143 acres of former industrial property designated for mixed use redevelopment. Also provided oversight with regards to building demolition and remediation of contaminated soil and soil gas.

**Confidential Client, Fremont**

- Managed a preliminary study of facility closure alternatives for the roughly 130-acre New United Motors Manufacturing, Inc. (NUMMI) facility located 45500 Fremont Boulevard in Fremont, California (the "site" or the "facility"). Provided preliminary information on the relative costs and benefits of three different scenarios for closing the facility and preparing the property for sale. Also completed an analysis of local and state regulations regarding closure and decommissioning of industrial operations and the cost to comply with these regulations during industrial decommissioning/closure.

**San Quentin Prison**

- Assisted the State of California in preparation of a study of alternatives for redevelopment of the roughly 200-acre San Quentin Prison. Responsible for identifying the redevelopment issues and costs related to facility closure and decommissioning assuming different land use scenarios.

**Bay Area Research and Extension Center (BAREC) in Santa Clara**

- Assisted the State of California in investigating and remediating a former pesticide research and testing facility in Santa Clara, California. The 17-acre parcel was slated for redevelopment into single- and multi- family homes and a small park. Responsibilities included preparation of a Site Characterization Report and Remedial Action Workplan to obtain site closure from DTSC.

**Mission Bay in San Francisco**

- Assisted with Catellus's redevelopment of the one of the largest "Brownfields" developments in Northern California.
- Analyzed different remediation scenarios for petroleum hydrocarbons in soil and ground water and the potential impact of these remedies on future development activities.
- In addition, provided technical assistance with respect to risk communication and environmental risk management procedures to be performed during site redevelopment and construction.

**City of Emeryville, Emeryvillage Project**

- Successfully negotiated site closure with the California RWQCB for a former industrial site that was contaminated with petroleum hydrocarbons and VOCs in soil and ground water.
- Integral to negotiating this site closure was communication of potential environmental risks and risk management procedures to be followed during construction and redevelopment.

**Bay Street, Emeryville**

- Worked closely with a private developer, the City of Emeryville Redevelopment Agency and the California DTSC to negotiate closure and redevelopment of a 20-acre former industrial site contaminated with heavy metals, benzene and pesticides /PCBs.
- Closure of the site was contingent upon implementation of deed restrictions and a risk management plan and Anne worked closely with the relevant agencies and the private developer to finalize the risk management plan and obtain site closure.
- Implemented the risk management plan during site construction and development activities. Additional contamination was found during development and Anne worked closely with the developer and DTSC to ensure the additional contamination was remediated. She is currently working with the

developer on several cost recovery actions with respect to the additional contamination that was identified during development.

### VAPOR INTRUSION PROJECTS

- Completed design and installation of a vapor mitigation system under an existing building in South San Francisco.
- Provided vapor mitigation system plans and specifications for several new residential and commercial developments in Santa Clara County, Alameda County, Los Angeles County and Santa Ana.
- Prepared standard vapor mitigation plans and specifications for a developer for implementation at a Superfund site undergoing redevelopment in Sacramento, California.
- Managed and provided technical oversight for a former dry cleaning facility in San Leandro, California. In response to a request from the California Department of Toxic Substances Control (DTSC), project involved determination of the nature and extent of impacts from former dry cleaning operation and an assessment of potential vapor intrusion risks.
- Currently providing oversight on an investigation related to vapor intrusion risks to a residential home from a former dry cleaning facility in Santa Clara, California.
- Completed an investigation to address releases from a former dry cleaning operation in Solano County, California.
- Managed the investigation and remediation of a large US Navy Laundry and dry cleaning site in Aiea, Hawaii that had been impacted by PCE and Stoddard solvent.

### CAREER

1992-1998

**Manager of feasibility studies, remediation and design engineering, Ogden Environmental and Energy Services Company, Honolulu and San Francisco offices.**

Managed numerous hazardous waste and petroleum hydrocarbon investigation and remediation projects in California, Alaska, Hawaii and Guam.

Provided technical management for environmental engineering and remedial design projects on a $210 million dollar CLEAN Contract with the US Navy in Hawaii.

1988-1992

**Senior Associate at ENVIRON International Corporation, Emeryville, California.**

1984-1987

**Associate Engineer, McGill-Martin-Self, Orinda, California.**

Designed and managed land development projects. Performed hydraulic and hydrogeologic analysis of floods, landslides, and land development projects. Designed and implemented grading, drainage, and erosion control plans for various engineering projects. Conducted numerous investigations on the causes and remediation measures for seepage in hillsides and various types of engineering excavations. Audited and assessed residential developments for compliance with building codes and other regulations.

## PUBLICATIONS

Comparison of Modeled to Estimated Emission Rates at Active Hazardous Waste Landfill (with D. Suder and C. Schmidt). 1990. Presented at the Air and Waste Management Association, annual conference.

Estimation of Hydraulic Conductivity for a Tidally-Influenced Unconfined Aquifer (with Jeff Cotter). Presented at 1993 Joint CSCE–ASCE National Conference on Environmental Engineering, July, 1993.

RAMBOLL

ENVIRONMENT & HEALTH

# JASON KANE

**Senior Managing Consultant**

Jason Kane has ten years of experience in environmental engineering consulting related to site assessment, subsurface investigation, and remedial design and implementation. He has performed multiple due diligence site assessments and subsurface investigations at industrial and commercial facilities in order to assess the potential for environmental liabilities. Jason has implemented subsurface investigations, soil excavations, and soil characterization sampling in coordination with demolition and construction contractors at sites undergoing redevelopment. He is well versed in environmental sampling techniques including soil, soil gas, groundwater, and indoor air sampling and has a strong understanding of risk-based regulatory screening guidelines. Jason has also served as a design and field engineer for soil vapor extraction, groundwater extraction, and ozone injection treatment systems for the remediation of volatile organic compounds.

## EDUCATION

2010
**MS, Civil and Environmental Engineering**
California Polytechnic State University, San Luis Obispo

2008
**BS, Environmental Engineering**
San Diego State University

## CREDENTIALS

Registered Professional Civil Engineer, California, no. 86334

OSHA 40-hr HAZWOPER training

## CONTACT INFORMATION

**Jason Kane**

jpkane@ramboll.com
+1 (510) 420-2547

Ramboll
2200 Powell Street
Suite 700
Emeryville, 94608
United States of America

## EXPERIENCE

- Conducted Phase I and Phase II environmental site assessments at various commercial, industrial, and residential properties to assess the potential for significant on-site and off-site liabilities that may be associated with past or current operations conducted at each site. Sites assessed include precision machining facilities, multi-tenant commercial properties, multi-tenant and single-home residential properties, and vacant properties historically operated as manufacturing facilities or fueling stations. Phase II investigation activities include soil, soil gas, indoor air quality, and groundwater sampling. Results of laboratory analyses were compared to applicable local, state, and federal regulatory screening criteria.
- Oversaw the excavation of soil impacted by metals and pesticides during the redevelopment of multiple former industrial and commercial sites in Santa Clara Valley. Activities included regular coordination with demolition and construction contractors, segregation and characterization of soil stockpiles for site reuse or landfill disposal according to applicable local, state, and federal regulatory screening criteria, and collection of confirmation samples.
- Organized and conducted extensive subsurface investigation program at a large industrial facility in San Jose, California during and following the demolition of multiple buildings at the site that historically were used for manufacturing purposes. Activities included regular coordination with demolition and construction contractors, soil and soil gas sampling to investigation potential impacts from historical hazardous material use, and comparison of laboratory analytical results to applicable local, state, and federal regulatory screening criteria.

- Assisted in the design and installation of multiple sub-slab depressurization systems to mitigate potential vapor intrusion concerns at occupied warehouse and commercial properties. Oversaw the installation of horizontal wells directly under the foundation of existing warehouse and commercial buildings. In some instances, the sub-slab depressurization systems were converted to active soil vapor extraction (SVE) systems.
- Assisted in the design and installation of an ozone injection pilot study at site located in Los Angeles Basin impacted by volatile organic compound (VOC) contamination. Conducted system startup and weekly operation and maintenance activities, programmed and downloaded water quality data from down-well data loggers, and prepared quarterly status reports in compliance with Waste Discharge Requirements (WDR).
- Operated and maintained a SVE system at site of former metal plating facility. Responsible for weekly site visits to log operational data, monthly sampling of influent and effluent vapor streams, and preparation of quarterly reports to Department of Toxic Substances Control (DTSC).
- Assisted in operation and maintenance of hydraulic containment system at a VOC-impacted fractured-bedrock site in Norco, California. Recorded system data, performed maintenance on down-well pneumatic groundwater extraction pumps, collected samples in compliance with National Pollution Discharge Elimination System (NPDES), and programed and downloaded down-well pressure head data loggers.
- Oversaw the excavation of a fast-food restaurant parking lot with residual subsurface soil contamination from a leaking underground fuel storage tank that was removed from the site. Soils were excavated using large-diameter hollow stem augers then screened in the field with a photo ionization detector (PID) to ensure compliance with local air quality monitoring district regulations.
- Conducted aquifer testing at sites in Henderson, Nevada and Jurupa Valley, California to evaluate and optimize existing groundwater extraction well networks. Slug, step-drawdown, and recovery tests were performed and groundwater elevation data was collected simultaneously from multiple wells using data-logging pressure transducers.
- Tested multiple SVE pilots involving the setup, operation, and demobilization of SVE systems. Other responsibilities included the collection of operational data and vapor stream samples and assisting in reporting of pilot test results.
- Performed technical calculations and failure analysis for a litigation case involving a malfunctioning ventilation system at a material recovery facility near the City of Industry, California.
- Conducted numerous site investigation activities including low-flow groundwater sampling, indoor air quality sampling, soil gas sampling, soil sampling, and well installation and development.
- Prepared figures utilizing AutoCAD and ArcGIS.

## PREVIOUS EXPERIENCE

**2008-2010**
**Graduate Student Researcher, Cal Poly Corporation, San Luis Obispo**

- Constructed and operated a novel reciprocating biofilm reactor for the treatment of anaerobic dairy wastewater. Performed laboratory analysis on influent and effluent samples to determine nitrification and denitrification performance of system.
- Modeled sludge production of current and proposed systems and projected impacts of turf irrigation on local golf course using effluent wastewater as a member of the design team for low cost, low technology retrofit of serial pond wastewater treatment system in Avila Beach, CA.
- Analyzed sequence batch reactor wastewater treatment system in Arroyo Grande, CA. Proposed changes to operational procedures in order to increase effluent water quality.

## MEMBERSHIPS

American Society of Civil Engineers

WateReuse Association

**FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels**

**Project Name:** Valley Garden
**Project Number:**
**Scenario:** Existing
**Ldn/CNEL:** Ldn

| Assumed 24-Hour Traffic Distribution: | Day | Evening | Night |
|---|---|---|---|
| Total ADT Volumes | 77.70% | 12.70% | 9.60% |
| Medium-Duty Trucks | 87.43% | 5.05% | 7.52% |
| Heavy-Duty Trucks | 89.10% | 2.84% | 8.06% |

| | | | | | | | | Vehicle Mix | | Distance from Centerline of Roadway | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Median | ADT | Speed | Alpha | Medium | Heavy | Ldn at | Distance to Contour | | | |
| # | Roadway | Segment | Lanes | Width | Volume | (mph) | Factor | Trucks | Trucks | 100 Feet | 70 Ldn | 65 Ldn | 60 Ldn | 55 Ldn |
| 1 | Lockewood Lane | Lockewood Lane from Graham Hill Road to Estrella Drive | 2 | 2 | 4,000 | 30 | 0 | 2.0% | 1.0% | 55.4 | - | - | 34 | 109 |
| 2 | | Lockewood Lane from Estrella Drive to Project Driveway | 2 | 1 | 3,760 | 30 | 0 | 2.0% | 1.0% | 55.1 | - | - | - | 102 |
| 3 | | Lockewood Lane from Project Driveway to Mt. Hermon Road | 2 | 1 | 4,620 | 30 | 0 | 2.0% | 1.0% | 56.0 | - | - | 40 | 126 |
| 4 | Mt. Hermon Road | Mt. Hermon Road from Lockewood Lane to CVS Driveway | 4 | 11 | 23,230 | 35 | 0 | 2.0% | 1.0% | 63.9 | - | 78 | 246 | 777 |
| 5 | | Mt. Hermon Road from CVS Driveway to Kings Village Road | 4 | 15 | 26,350 | 35 | 0 | 2.0% | 1.0% | 64.5 | - | 89 | 280 | 886 |
| 6 | | Mt. Hermon Road from Kings Village Road to Spring Lakes Drive | 4 | 5 | 26,170 | 35 | 0 | 2.0% | 1.0% | 64.4 | - | 87 | 275 | 869 |
| 7 | | Mt. Hermon Road from Spring Lakes Drive to Scotts Valley Drive | 4 | 15 | 30,790 | 35 | 0 | 2.0% | 1.0% | 65.1 | - | 103 | 327 | 1,034 |
| 8 | | Mt. Hermon Road from Scotts Valley Drive to La Madrona Drive | 4 | 18 | 29,140 | 35 | 0 | 2.0% | 1.0% | 64.8 | - | 98 | 311 | 982 |

[1] Distance is from the centerline of the roadway segment to the receptor location.
"-" = contour is located within the roadway right-of-way.

**FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels**

**Project Name:** Valley Garden
**Project Number:**
**Scenario:** Existing Plus Project
**Ldn/CNEL:** Ldn

| Assumed 24-Hour Traffic Distribution: | Day | Evening | Night |
|---|---|---|---|
| Total ADT Volumes | 77.70% | 12.70% | 9.60% |
| Medium-Duty Trucks | 87.43% | 5.05% | 7.52% |
| Heavy-Duty Trucks | 89.10% | 2.84% | 8.06% |

| | | | | | | | | Vehicle Mix | | Distance from Centerline of Roadway | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Median | ADT | Speed | Alpha | Medium | Heavy | Ldn at | Distance to Contour | | | |
| # | Roadway | Segment | Lanes | Width | Volume | (mph) | Factor | Trucks | Trucks | 100 Feet | 70 Ldn | 65 Ldn | 60 Ldn | 55 Ldn |
| 1 | Lockewood Lane | Lockewood Lane from Graham Hill Road to Estrella Drive | 2 | 2 | 4,060 | 30 | 0 | 2.0% | 1.0% | 55.4 | - | - | 35 | 111 |
| 2 | | Lockewood Lane from Estrella Drive to Project Driveway | 2 | 1 | 3,850 | 30 | 0 | 2.0% | 1.0% | 55.2 | - | - | 33 | 105 |
| 3 | | Lockewood Lane from Project Driveway to Mt. Hermon Road | 2 | 1 | 4,890 | 30 | 0 | 2.0% | 1.0% | 56.2 | - | - | 42 | 133 |
| 4 | Mt. Hermon Road | Mt. Hermon Road from Lockewood Lane to CVS Driveway | 4 | 11 | 24,335 | 35 | 0 | 2.0% | 1.0% | 64.1 | - | 81 | 257 | 814 |
| 5 | | Mt. Hermon Road from CVS Driveway to Kings Village Road | 4 | 15 | 28,030 | 35 | 0 | 2.0% | 1.0% | 64.7 | - | 94 | 298 | 942 |
| 6 | | Mt. Hermon Road from Kings Village Road to Spring Lakes Drive | 4 | 5 | 27,770 | 35 | 0 | 2.0% | 1.0% | 64.6 | - | 92 | 292 | 922 |
| 7 | | Mt. Hermon Road from Spring Lakes Drive to Scotts Valley Drive | 4 | 15 | 32,310 | 35 | 0 | 2.0% | 1.0% | 65.3 | - | 109 | 343 | 1,086 |
| 8 | | Mt. Hermon Road from Scotts Valley Drive to La Madrona Drive | 4 | 18 | 30,270 | 35 | 0 | 2.0% | 1.0% | 65.0 | - | 102 | 323 | 1,020 |

406.0%

[1] Distance is from the centerline of the roadway segment to the receptor location.
"-" = contour is located within the roadway right-of-way.

**FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels**

**Project Name:** Valley Garden
**Project Number:**
**Scenario:** Horizon Year
**Ldn/CNEL:** Ldn

| Assumed 24-Hour Traffic Distribution: | Day | Evening | Night |
|---|---|---|---|
| Total ADT Volumes | 77.70% | 12.70% | 9.60% |
| Medium-Duty Trucks | 87.43% | 5.05% | 7.52% |
| Heavy-Duty Trucks | 89.10% | 2.84% | 8.06% |

| | | | | | | | | Vehicle Mix | | Distance from Centerline of Roadway | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| # | Roadway | Segment | Lanes | Median Width | ADT Volume | Speed (mph) | Alpha Factor | Medium Trucks | Heavy Trucks | Ldn at 100 Feet | Distance to Contour 70 Ldn | 65 Ldn | 60 Ldn | 55 Ldn |
| 1 | Lockewood Lane | Lockewood Lane from Graham Hill Roa | 2 | 2 | 6,000 | 30 | 0 | 2.0% | 1.0% | 57.1 | - | - | 52 | 163 |
| 2 | | Lockewood Lane from Estrella Drive to | 2 | 1 | 5,810 | 30 | 0 | 2.0% | 1.0% | 57.0 | - | - | 50 | 158 |
| 3 | | Lockewood Lane from Project Drivewa | 2 | 1 | 6,670 | 30 | 0 | 2.0% | 1.0% | 57.6 | - | - | 57 | 181 |
| 4 | Mt. Hermon Road | Mt. Hermon Road from Lockewood Lar | 4 | 11 | 28,440 | 35 | 0 | 2.0% | 1.0% | 64.8 | - | 95 | 301 | 951 |
| 5 | | Mt. Hermon Road from CVS Driveway | 4 | 15 | 35,460 | 35 | 0 | 2.0% | 1.0% | 65.8 | - | 119 | 377 | 1,192 |
| 6 | | Mt. Hermon Road from Kings Village R | 4 | 5 | 37,460 | 35 | 0 | 2.0% | 1.0% | 65.9 | - | 124 | 393 | 1,244 |
| 7 | | Mt. Hermon Road from Spring Lakes D | 4 | 15 | 42,010 | 35 | 0 | 2.0% | 1.0% | 66.5 | - | 141 | 446 | 1,411 |
| 8 | | Mt. Hermon Road from Scotts Valley D | 4 | 18 | 37,180 | 35 | 0 | 2.0% | 1.0% | 65.9 | - | 125 | 396 | 1,253 |

[1] Distance is from the centerline of the roadway segment to the receptor location.
"-" = contour is located within the roadway right-of-way.

**FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels**

**Project Name:** Valley Garden
**Project Number:**
**Scenario:** Horizon Year Plus Project
**Ldn/CNEL:** Ldn

| Assumed 24-Hour Traffic Distribution: | Day | Evening | Night |
|---|---|---|---|
| Total ADT Volumes | 77.70% | 12.70% | 9.60% |
| Medium-Duty Trucks | 87.43% | 5.05% | 7.52% |
| Heavy-Duty Trucks | 89.10% | 2.84% | 8.06% |

| | | | | | | | | Vehicle Mix | | Distance from Centerline of Roadway | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| # | Roadway | Segment | Lanes | Median Width | ADT Volume | Speed (mph) | Alpha Factor | Medium Trucks | Heavy Trucks | Ldn at 100 Feet | Distance to Contour 70 Ldn | 65 Ldn | 60 Ldn | 55 Ldn |
| 1 | Lockewood Lane | Lockewood Lane from Graham Hill Roa | 2 | 2 | 6,080 | 30 | 0 | 2.0% | 1.0% | 57.2 | - | - | 52 | 165 |
| 2 | | Lockewood Lane from Estrella Drive to | 2 | 1 | 5,900 | 30 | 0 | 2.0% | 1.0% | 57.1 | - | - | 51 | 161 |
| 3 | | Lockewood Lane from Project Drivewa | 2 | 1 | 6,940 | 30 | 0 | 2.0% | 1.0% | 57.8 | - | - | 60 | 189 |
| 4 | Mt. Hermon Road | Mt. Hermon Road from Lockewood Lar | 4 | 11 | 29,545 | 35 | 0 | 2.0% | 1.0% | 64.9 | - | 99 | 312 | 988 |
| 5 | | Mt. Hermon Road from CVS Driveway | 4 | 15 | 37,140 | 35 | 0 | 2.0% | 1.0% | 66.0 | - | 125 | 395 | 1,249 |
| 6 | | Mt. Hermon Road from Kings Village R | 4 | 5 | 39,060 | 35 | 0 | 2.0% | 1.0% | 66.1 | - | 130 | 410 | 1,297 |
| 7 | | Mt. Hermon Road from Spring Lakes D | 4 | 15 | 43,530 | 35 | 0 | 2.0% | 1.0% | 66.7 | - | 146 | 463 | 1,463 |
| 8 | | Mt. Hermon Road from Scotts Valley D | 4 | 18 | 38,310 | 35 | 0 | 2.0% | 1.0% | 66.1 | - | 129 | 409 | 1,292 |

[1] Distance is from the centerline of the roadway segment to the receptor location.
"-" = contour is located within the roadway right-of-way.

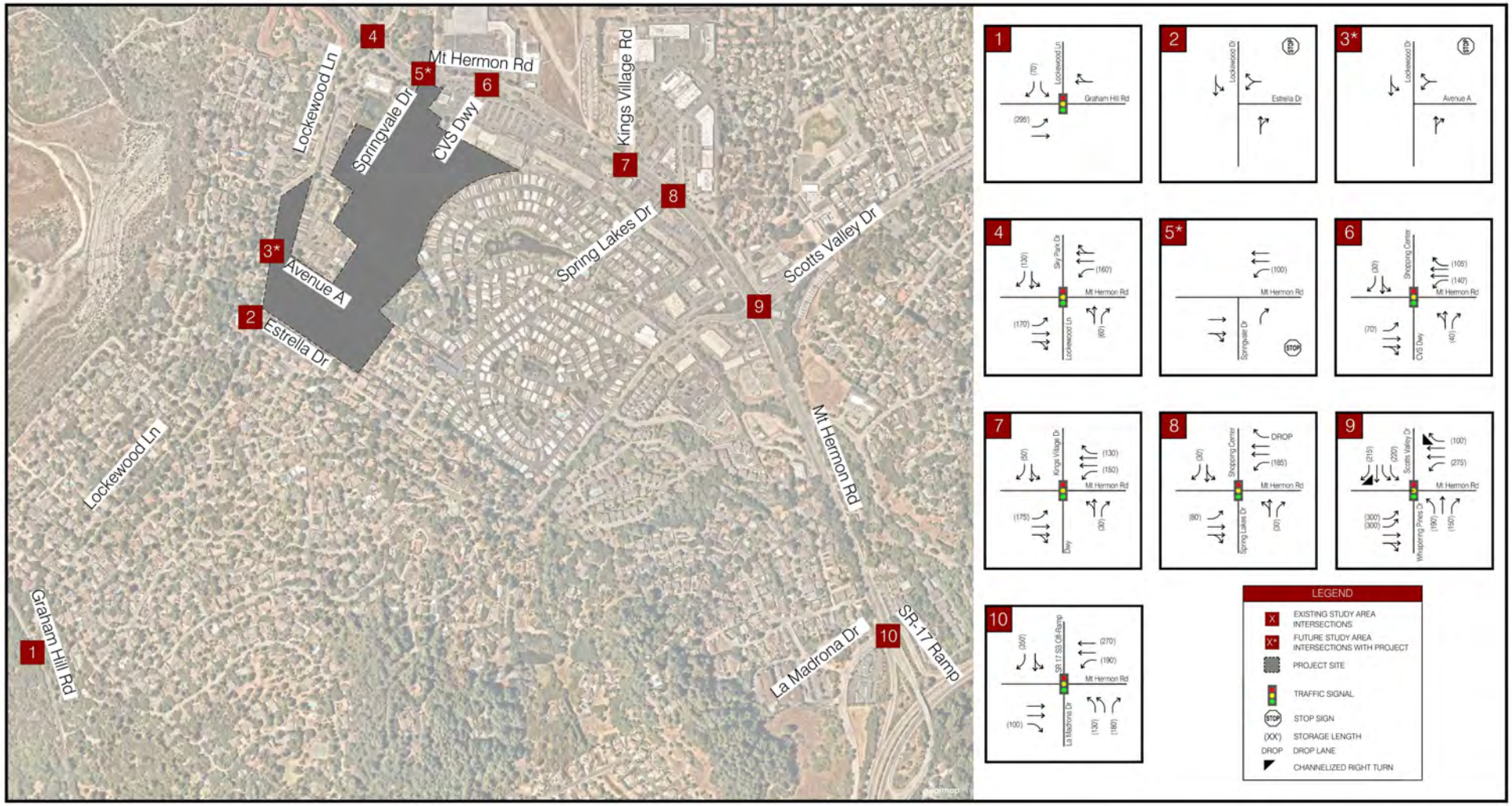
# Appendix H 1-1: Baseline Residential VMT per Capita




| | |
|---|---|
| City Average | 11.7 |
| Theshold | 10 |

Project Site

| TAZ | VMT/Capita |
|---|---|
| 1071 | 9.4 |
| 1072 | 8.5 |
| 1073 | 12.8 |
| 1074 | 12.2 |
| 1075 | 17.6 |
| 1076 | 15.5 |
| 1077 | 12.8 |
| 1078 | 11.8 |
| 1079 | 14 |
| 1080 | 15.7 |
| 1081 | 12.6 |
| 1082 | 16.5 |
| 1083 | 16.9 |
| 1084 | 10.2 |
| 1085 | 11.4 |
| 1086 | 12.5 |
| 1087 | 15.1 |




Source: Kimley-Horn, 2023

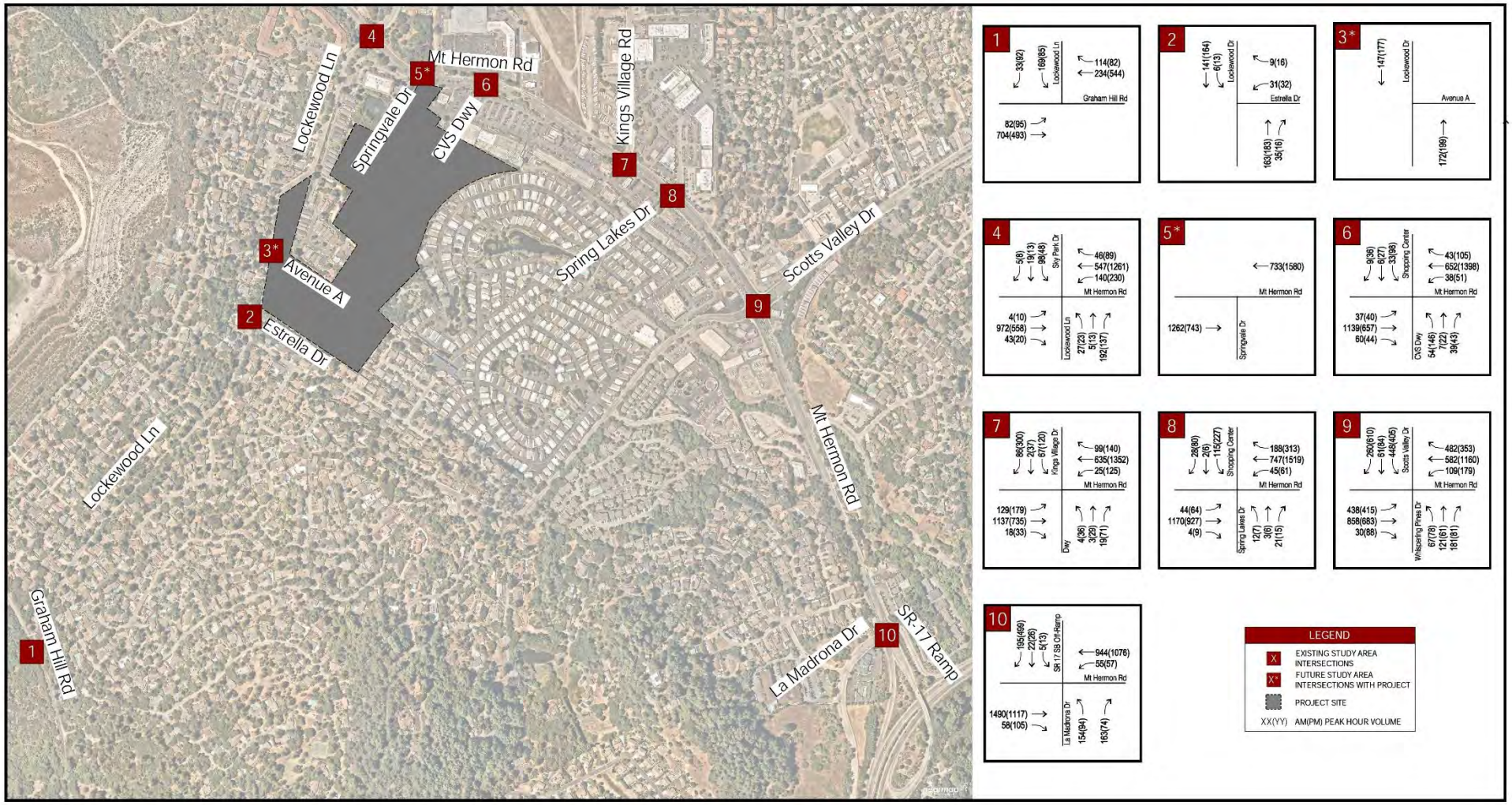
Kimley»Horn
Expect More. Experience Better.

Not to scale

## Appendix H 1-2: Lane Geometry and Traffic Control

Valley Gardens

*EIR*




Source: Kimley-Horn, 2023

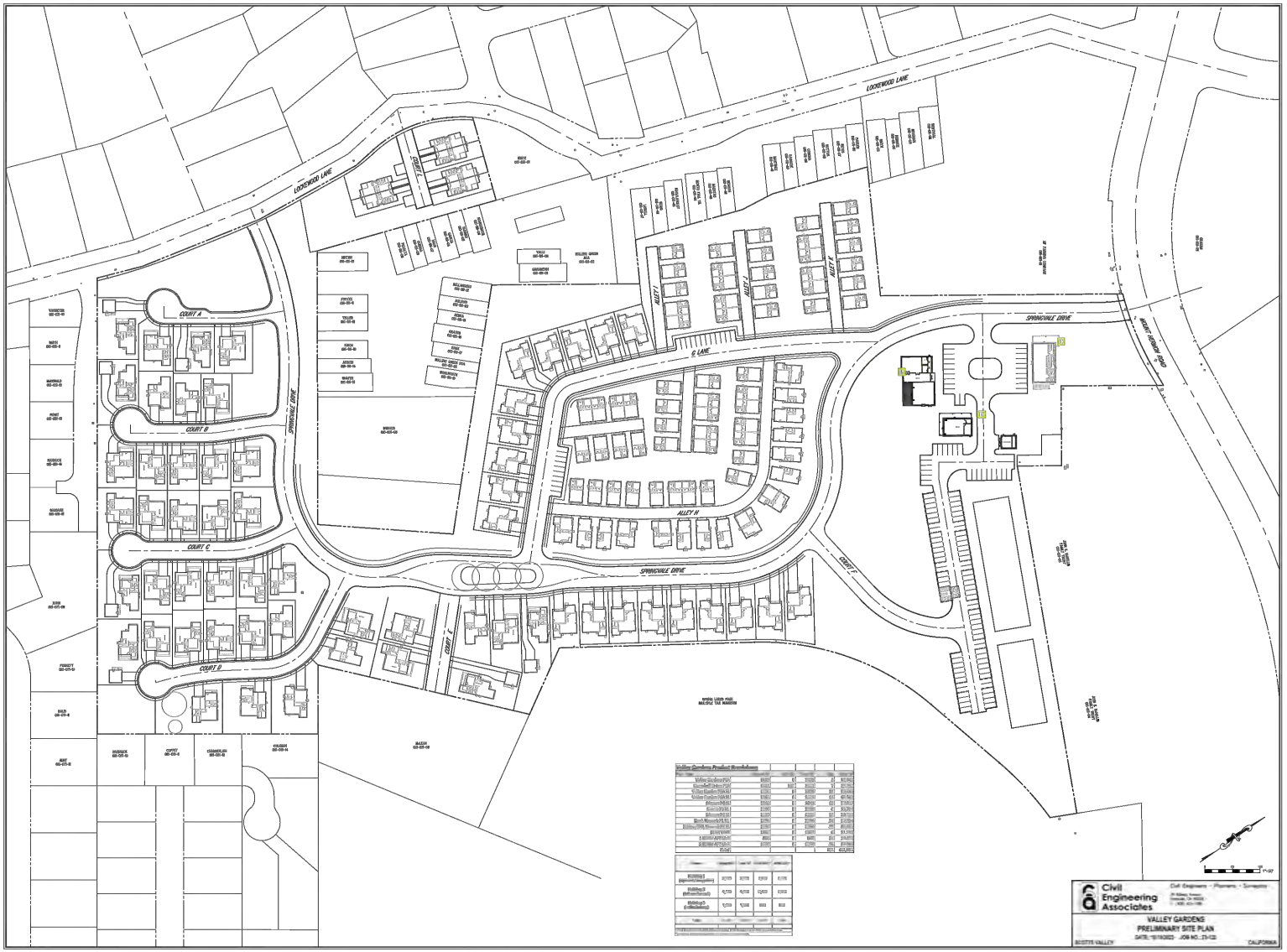
Kimley»Horn
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Not to scale

## Appendix H 1-3: Existing Peak Hour Turning Movement Volumes

Valley Gardens

*EIR*




Source: Civil Engineering Associates

Source: Kimley-Horn, 2023

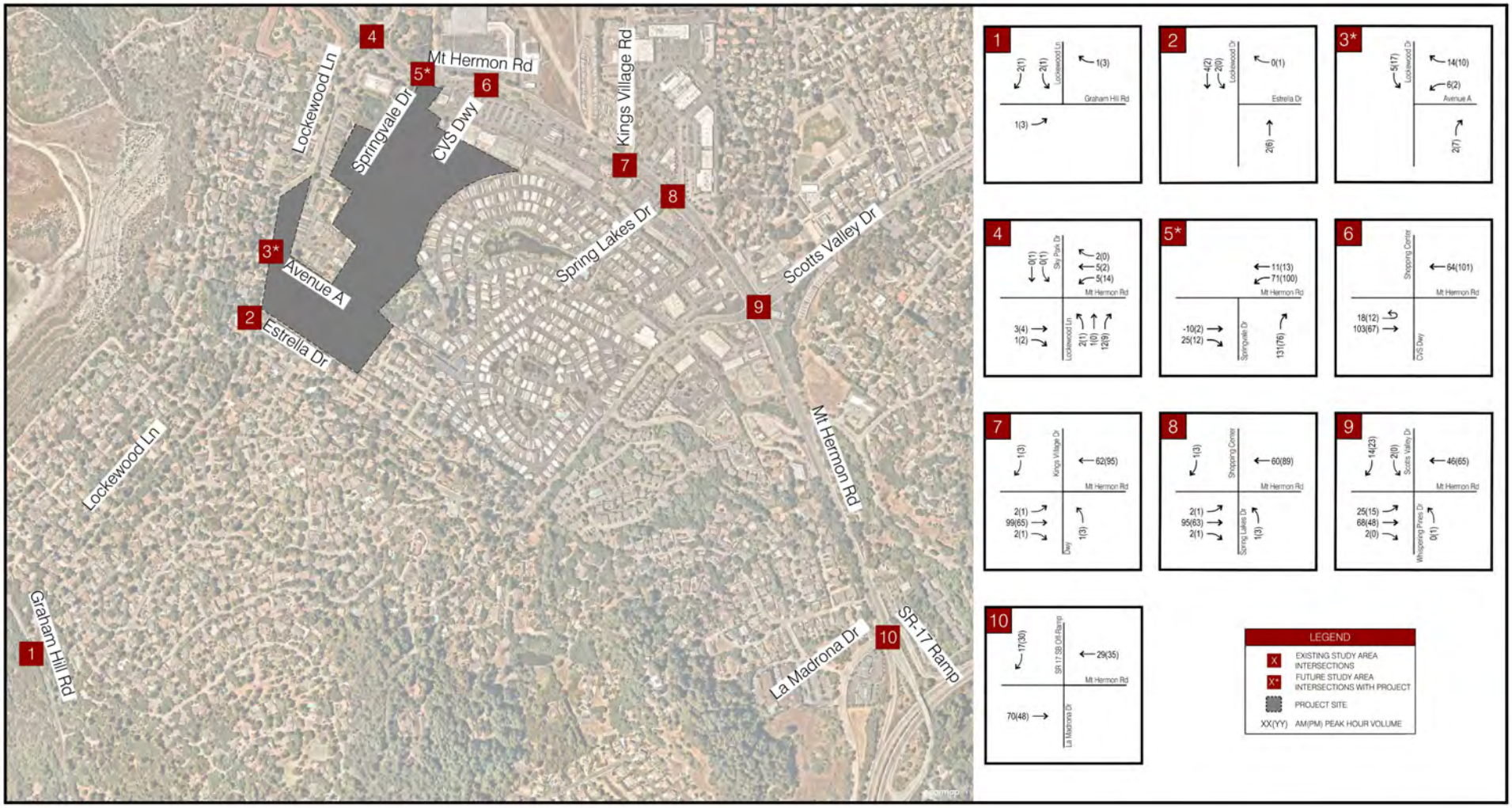
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Not to scale

**Appendix H 1-4: Site Plan**

Valley Gardens

*EIR*




Source: Kimley-Horn, 2023

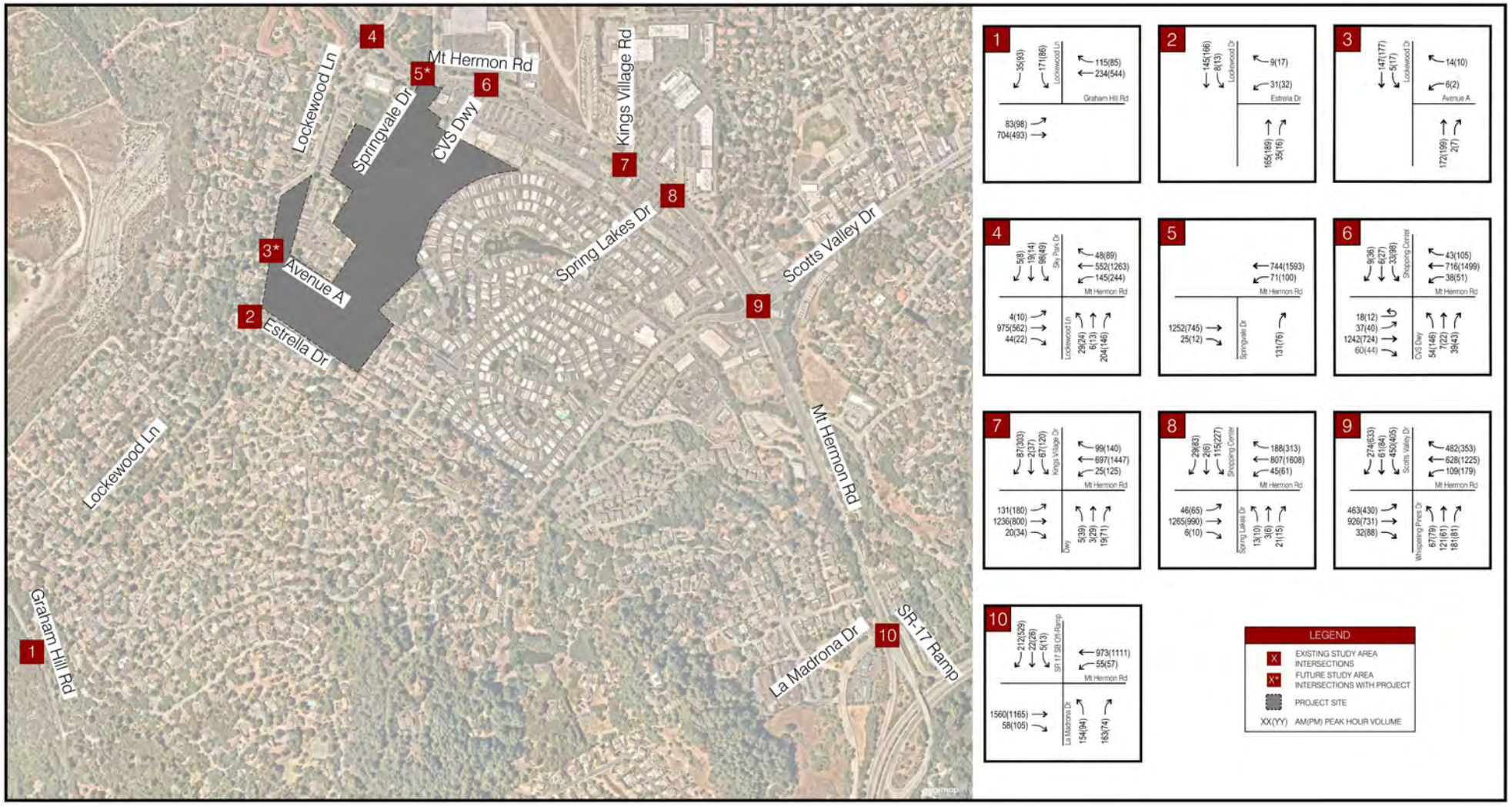
Kimley»Horn
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Not to scale

## Appendix H 1-5: Project Peak Hour Turning Movement Volumes

Valley Gardens

*EIR*




Source: Kimley-Horn, 2023

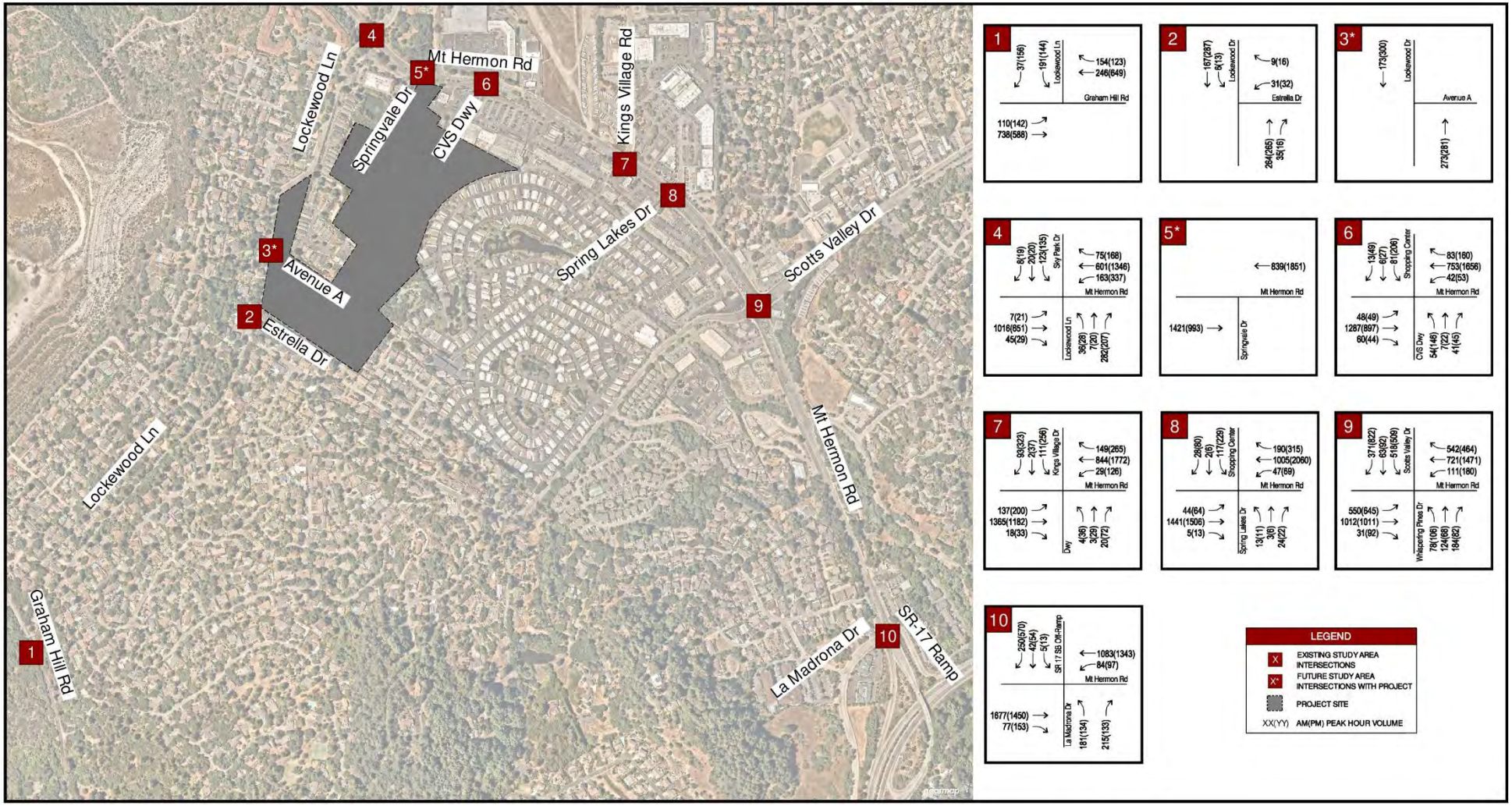
Kimley»Horn
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Not to scale

## Appendix H 1-6: Existing Plus Project Peak Hour Turning Movement Volumes

Valley Gardens

*EIR*




Source: Kimley-Horn, 2023

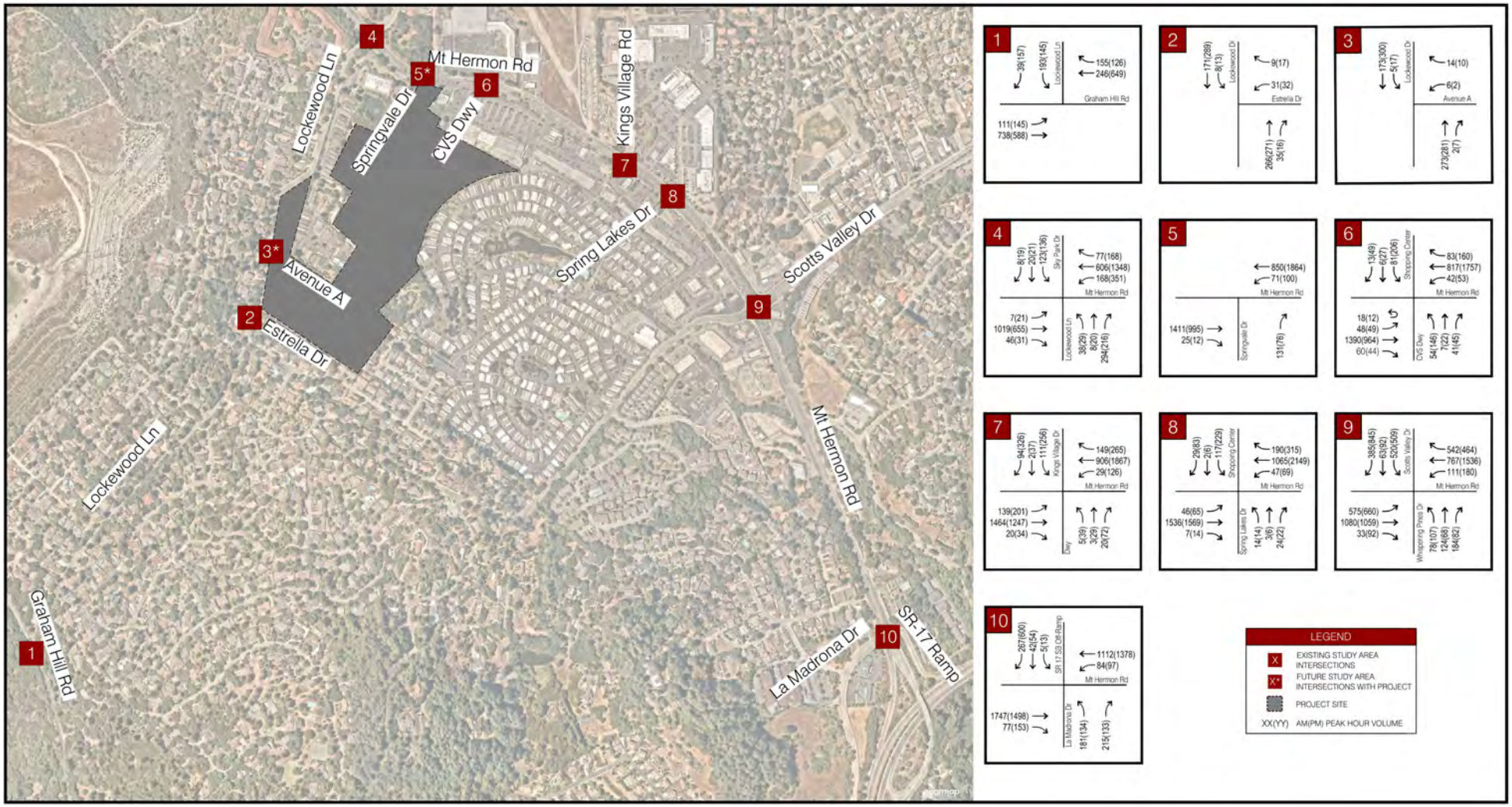
Kimley»Horn
Expect More. Experience Better.

Not to scale

## Appendix H 1-7: Cumulative Peak Hour Turning Movement Volumes

Valley Gardens

*EIR*




Source: Kimley-Horn, 2023

Kimley»Horn
Expect More. Experience Better.

Not to scale

## Appendix H 1-8: Cumulative Plus Project Peak Hour Turning Movement Volumes

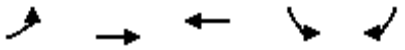
Valley Gardens
*EIR*

# Appendix H 1-9: Cumulative Projects List

| | City of Scotts Valley - Cumulative Trip Generation List - July 26, 2017 (updated as needed by Planning Dept.) @ http://www.scottsvalley.org/downloads/planning/Trip_List.pdf | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Map # or** | **Street Address - "Project Name" or Property Owner** | **APN** | **Property Owner / Developer** | **Existing Zoning** | **Given Size** | **Converted Size** | **ITE Code** | **ITE Description** | **Specific Description** | **Notes** |
| **A** | **Approved Planning Permits (for new construction) - Building / Grading Permits Issued** | | | | | | | | | |
| A1 | Lundy Lane - "Pinnacle View" Grading | | Bill Brooks | Residential - Multi-family (R-VH) | 20 units | 20 units | 230 | Residential Condominium/Townhouse | All townhouses | |
| A2 | 300 Polo Ranch Rd - "The Grove" Grading (50 condos total) | | City Ventures | Residential - Multi-family (R-VH) | 4.32 acres | 50 units | 230 | Residential Condominium/Townhouse | All TH-style condos | former Borland Phase II |
| A3 | 400 Polo Ranch Rd - "Polo Ranch" Grading (40 lots total) | | Lennar Homes | Residential - SFD (R-1-10) | 40 units | 40 units | 210 | Detached Single-family Residence | All detached SFDs | |
| A4 | 11 Ridgecrest Drive - "Ridgecrest PUD" | | Steve Beneden | Residential - SFD (R-R-2.5) | 1 unit | 1 unit | 210 | Detached Single-family Residence | All detached SFDs | |
| A5 | 4300 Scotts Valley Dr - "Tansy" (5 lots total) | 022-861-21 | Michael Tansy | Residential - Multi-Family (R-H) | 5 units | 5 units | 230 | Residential Condominium/Townhouse | All detached SFDs | |
| A5.a | 4656 Scotts Valley Drive - "Anderson Pacific" | | Anderson Pacific | Commercial - Service (C-S) | n/a | 3,000 SF | 710 | General Office Building | | |
| A6 | 5030 Scotts Valley Drive - "Lexington Hotel" | | Merced Hospitality | Commercial - Service (C-S) | 1.74 acres | 119 rooms | 310 | Hotel | | |
| A7 | Silverwood Drive - "Monte Fiore" | | n/a | Residential - SFD (R-1-40) | 3 units | 3 units | 210 | Detached Single-family Residence | All detached SFDs | aka Heritage Parks |
| A8 | Timber Ridge Lane - "Timber Ridge" (4 lots total) | | Chris Perri / Gerry Smith | Residential - SFD (R-R-2.5) | 4 units | 3 units | 210 | Detached Single-family Residence | All detached SFDs | |
| **B** | **Approved Planning Permits (for new construction) - Building / Grading Permits NOT Issued** | | | | | | | | | |
| B1 | 12 Blake Lane (3 lots total) | | Scarborough Trust | Residential - Multi-Family (R-H) | 3 units | 3 units | 230 | Residential Condominium/Townhouse | 2 attached; 1 detached | |
| B2 | 2923 Granite Creek Road - "Granite Creek Estates" | | Hodges | Residential - SFD (R-1-40) | 2 units | 2 units | 210 | Detached Single-family Residence | All detached SFDs | |
| B3 | Granite Creek Road - "Granite Creek Estates" | | n/a | Residential - SFD (R-1-40) | 1 unit | 1 unit | 210 | Detached Single-family Residence | All detached SFDs | |
| B4 | Meadow Way | | Marlyn Bergman | Residential - SFD (R-1-10) | 4 units | 4 units | 210 | Detached Single-family Residence | All detached SFDs | |
| B5 | Mt. Hermon Rd - "Town Center" Specific Plan & EIR | | Multiple owners | Commercial - Service (C-S) | 28 acres | 100,000 SF | 820 | Shopping Center / Commercial | tbd | |
| | | | | | | 254 units | tbd | Residential | tbd | |
| B6 | 125 N. Navarra (1 new lot) | | Tony Allbach | Residential - SFD (R-1-10) | 1 unit | 1 unit | 210 | Detached Single-family Residence | Detached SFD | |
| B7 | 26 Polo Heights Rd - "Polo Heights" (4 lots total) | | G Smith / Chris Perri | Residential - SFD (R-R-2.5) | 4 units | 1 unit | 210 | Detached Single-family Residence | All detached SFDs | |
| B8 | 200 Polo Ranch Rd - "Marriott" Residence Inn | | Coast Redwood Grp | Commercial - Service (C-S) | 2.48 acres | 120 rooms | 310 | Hotel | n/a | |
| B9 | Ridgecrest Drive - "Ridgecrest PUD" (13 units total) | | n/a | Residential - SFD (R-R-2.5/PD) | 2 units | 2 units | 210 | Detached Single-family Residence | All detached SFDs | |
| B11 | Scotts Valley Dr / Dunslee Way - "Dunslee Way" | 022-451-01 | Marlyn Bergman & | Residential - Multi-Family (R-H) | 2.35 acres | 25 units | 230 | Residential Condominium/Townhouse | All townhouses | |
| | | | Scott Norton | Commercial - Service (C-S) | 0.82 acre | 5,000 SF | 710 | General Office Building | | |
| B12 | Scotts Valley Dr@Bean Creek - "The Terrace" (19 lots total) | 022-162-69 | Chris Perri | Residential - Multi-family (R-M-6) | 2.30 acres | 19 units | 230 | Residential Condominium/Townhouse | All townhouses | |
| B12.a | 4303-A Scotts Valley Dr - "Polo Ranch BMRs" | | Lennar Homes | Residential - Multi-family (R-H) | 6 units | 6 units | 230 | Residential Condominium/Townhouse | 2 condo triplexes | |
| B12.b | 5311 Scotts Valley Dr - "Yoso Spa" | | Adam Dahlen | Commercial - Service (C-S) | 2,009 SF | | tbd | New spa/wellness center @ Ivy's Porch | | |
| B13 | Silverwood Drive - "Monte Fiore" | | n/a | Residential - SFD (R-1-40) | 4 units | 4 units | 210 | Detached Single-family Residence | All detached SFDs | aka Heritage Parks |
| B13.a | 600 & 601 Lassen Park Dr - "Monte Fiore" | | n/a | Residential - SFD (R-1-40) | 2 units | 2 units | 210 | Detached Single-family Residence | All detached SFDs | aka Heritage Parks |
| B14 | Timber Ridge Lane - "Timber Ridge" (4 lots total) | | Chris Perri / Gerry Smith | Residential - SFD (R-R-2.5) | 4 units | 1 unit | 210 | Detached Single-family Residence | All detached SFDs | |
| **C** | **Submitted Planning Permit Applications (for new construction) - Currently Being Processed / Not Approved** | | | | | | | | | |

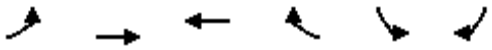
| | City of Scotts Valley - Cumulative Trip Generation List - July 26, 2017 (updated as needed by Planning Dept.) @ http://www.scottsvalley.org/downloads/planning/Trip_List.pdf | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Map # or** | **Street Address - "Project Name" or Property Owner** | **APN** | **Property Owner / Developer** | **Existing Zoning** | **Given Size** | **Converted Size** | **ITE Code** | **ITE Description** | **Specific Description** | **Notes** |
| C1 | 440 Kings Village Road - former "Aviza" | | Joe Appendrodt | Light-Industrial (I-L) | 12 acres | 87 units | tbd | Residential Med-high 5-9units/acre | GPA/Rezone only | |
| | | | | | | | | | | |
| C2 | Nashua Drive - "Bergman MLD" (3 lots total) | | Marlyn Bergman | Residential - Multi-family (R-M-6) | | 3 lots | 210 | Detached Single-family Residence | Subdivide 2 lots into 3 | |
| | | | | | | | | | | |
| C3 | Scotts Valley Drive - "Bay Photo PD" Mixed-use | 022-082-34 | n/a | Commercial - Service (C-S) | 40,637 SF | 19 units | tbd | Apartments | 2 buildings | |
| | | 022-082-35 | | | | | | | | |
| C4 | 4803 Scotts Valley Drive | | Robert Kim | Commercial - Service (C-S) | 6,125 SF | n/a | 710 | General Office Building | | |
| | | | | | | 6 units | tbd | Apartments | All attached units | |
| **D** | **Major Vacant Lots - Planning Permit Applications Not Formally Submitted** | | | | | | | | | |
| D1 | 22 Blake Lane (6 lots total) | | Maria Jensen | Residential - Multi-family (R-H) | 6 units | 6 units | 230 | Residential Condominium/Townhouse | All townhouses | |
| | | | | | | | | | | |
| D2 | 3640 Glen Canyon Road - "Oak Creek Park" Mixed-use | | Granum Partners | Commercial - Service (C-S) | tbd | tbd | tbd | Mixed use | | |
| | | | | | | | | | | |
| D3 | La Madona Drive - "Fire Station" on teardrop parcel | | SV Fire Protection District | Commercial - Service (C-S) | 9,600 sf | 9,600 sf | 710 | Fire Station - Public Service Agency | ITE code unconfirmed | |
| | | | | | | | | | | |
| D4 | La Madrona Drive - "Gateway South Site" | | Brent Lee | Commercial - Service (C-S) | ≈8+ acres | tbd | tdb | tdb | Former EIR for retail store | |
| | | | | | | | | | | |
| D5 | 4421 Scotts Valley Drive / Terrace View Drive | 022-172-21 | M. Soma | Commercial - Service (C-S) | 0.43 acre | tbd | 820* | Shopping Center | n/a | |
| | | | | | | | | | | |
| D6 | 112 Vinehill School Road | 023-121-25 | n/a | Residential - Multi-family (R-M-6) | 0.76 acre | 3 units | 210 | Detached Single-family Residence | All detached SFDs | |
| | | | | | | | | | | |
| **E** | **General Plan Housing Element Sites (years 2009-2014)** | | | | | | | | | |
| | Note: Unit numbers are imperical and do not reflect practical development | | | | | | | | | |
| E1 | Erba Lane / across from Fire District Station | 022-481-01 | City of Scotts Valley | Residential - Multi-family (R-H) | 11 units | 11 units | 230 | Residential Condominium/Townhouse | 9.0 to 15.0 units/acre | |
| E2 | La Madrona Road / Altenitas Road | 021-321-04 | Bei Scott Co. | Residential - Multi-family (R-VH) | 2.03 acres | 31-41 units | 230 | Residential Condominium/Townhouse | 15.1 to 20.0 units/acre | |
| E3 | Mt. Hermon Road | 022-151-08 | Greg Flowers | Residential - Multi-family (R-VH) | 0.50 acres | 8-10 units | 230 | Residential Condominium/Townhouse | 15.1 to 20.0 units/acre | |
| E4 | Mt. Hermon Road | 022-151-07 | Mike Castle | Residential - Multi-family (R-VH) | 0.86 acres | 13-17 units | 230 | Residential Condominium/Townhouse | 15.1 to 20.0 units/acre | |
| E5 | Mt. Hermon Road / Glen Canyon Road | 021-151-03 | T & G Jaeger | Residential - Multi-family (R-VH) | 1.10 acres | 15-20 units | 230 | Residential Condominium/Townhouse | 15.1 to 20.0 units/acre | |
| E6 | Mt. Hermon Road / Glen Canyon Road | 021-151-04 | Richard Quinn | Residential - Multi-family (R-M-8) | 0.57 acres | 3-5 units | 230 | Residential Condominium/Townhouse | 5 to 9 units/acre | |
| E7 | Mt. Hermon Road / Glen Canyon Road | 022-151-05 | Ellen McCombs | Residential - Multi-family (R-VH) | 1.72 acres | 26-34 units | 230 | Residential Condominium/Townhouse | 15.1 to 20.0 units/acre | |
| E8 | Mt. Hermon Road / Glen Canyon Road | 022-151-11 | J & B Duggan | Residential - Multi-family (R-VH) | 1.10 acres | 16-22 units | 230 | Residential Condominium/Townhouse | 15.1 to 20.0 units/acre | |
| | | | | | | | | | | |
| | **Legend & Notes** | | | | | | | | | |
| * | Although ITE Code 814 (Specialty Retail Center) is the best description of expected use given location and parcl size, ITE Code 820 (Shopping Center) may be used because more traffic data is available with this code. | | | | | | | | | |
| n/a | Not applicable or not available at the time | | | | | | | | | |
| PD | Planned Development | | | | | | | | | |
| PUD | Planned Unit Development | | | | | | | | | |
| SFD | Single Family Dwelling (R-1 zoning districts) | | | | | | | | | |
| tbd | To be determined | | | | | | | | | |
| TH | Townhouse | | | | | | | | | |

# Appendix H 1-10: Synchro Outputs



| Lane Group | EBL | EBT | WBT | SBL | SBR |
|---|---|---|---|---|---|
| Lane Group Flow (vph) | 88 | 757 | 375 | 182 | 35 |
| v/c Ratio | 0.33 | 0.69 | 0.52 | 0.46 | 0.10 |
| Control Delay | 29.1 | 12.7 | 18.2 | 26.1 | 10.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 29.1 | 12.7 | 18.2 | 26.1 | 10.5 |
| Queue Length 50th (ft) | 27 | 156 | 97 | 54 | 1 |
| Queue Length 95th (ft) | 80 | 339 | 215 | 133 | 23 |
| Internal Link Dist (ft) | | 358 | 271 | 2509 | |
| Turn Bay Length (ft) | 295 | | | | 70 |
| Base Capacity (vph) | 912 | 1842 | 1230 | 1216 | 1065 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.10 | 0.41 | 0.30 | 0.15 | 0.03 |

Intersection Summary



| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Volume (veh/h) | 82 | 704 | 234 | 114 | 169 | 33 |
| Future Volume (veh/h) | 82 | 704 | 234 | 114 | 169 | 33 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 88 | 757 | 252 | 123 | 182 | 35 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 136 | 1106 | 470 | 229 | 270 | 240 |
| Arrive On Green | 0.08 | 0.59 | 0.40 | 0.40 | 0.15 | 0.15 |
| Sat Flow, veh/h | 1781 | 1870 | 1187 | 579 | 1781 | 1585 |
| Grp Volume(v), veh/h | 88 | 757 | 0 | 375 | 182 | 35 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 0 | 1766 | 1781 | 1585 |
| Q Serve(g_s), s | 2.0 | 11.7 | 0.0 | 6.8 | 4.1 | 0.8 |
| Cycle Q Clear(g_c), s | 2.0 | 11.7 | 0.0 | 6.8 | 4.1 | 0.8 |
| Prop In Lane | 1.00 | | | 0.33 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 136 | 1106 | 0 | 700 | 270 | 240 |
| V/C Ratio(X) | 0.65 | 0.68 | 0.00 | 0.54 | 0.67 | 0.15 |
| Avail Cap(c_a), veh/h | 1272 | 1781 | 0 | 1681 | 1696 | 1509 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 18.9 | 5.9 | 0.0 | 9.7 | 16.8 | 15.5 |
| Incr Delay (d2), s/veh | 5.1 | 1.6 | 0.0 | 1.4 | 3.5 | 0.3 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.9 | 2.9 | 0.0 | 2.2 | 1.7 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d),s/veh | 23.9 | 7.5 | 0.0 | 11.1 | 20.4 | 15.8 |
| LnGrp LOS | C | A | A | B | C | B |
| Approach Vol, veh/h | | 845 | 375 | | 217 | |
| Approach Delay, s/veh | | 9.2 | 11.1 | | 19.6 | |
| Approach LOS | | A | B | | B | |

| Timer - Assigned Phs | | 2 | | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | | 30.4 | | 11.7 | 8.2 | 22.1 |
| Change Period (Y+Rc), s | | 5.5 | | 5.3 | 5.0 | 5.5 |
| Max Green Setting (Gmax), s | | 40.0 | | 40.0 | 30.0 | 40.0 |
| Max Q Clear Time (g_c+I1), s | | 13.7 | | 6.1 | 4.0 | 8.8 |
| Green Ext Time (p_c), s | | 11.2 | | 0.9 | 0.2 | 5.0 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 11.3 |
| HCM 6th LOS | B |

| Intersection | |
|---|---|
| Int Delay, s/veh | 1.3 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 31 | 9 | 163 | 35 | 6 | 141 |
| Future Vol, veh/h | 31 | 9 | 163 | 35 | 6 | 141 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 9 | 9 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 84 | 84 | 84 | 84 | 84 | 84 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 37 | 11 | 194 | 42 | 7 | 168 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 406 | 224 | 0 | 0 | 245 | 0 |
| Stage 1 | 224 | - | - | - | - | - |
| Stage 2 | 182 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 601 | 815 | - | - | 1321 | - |
| Stage 1 | 813 | - | - | - | - | - |
| Stage 2 | 849 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 593 | 809 | - | - | 1311 | - |
| Mov Cap-2 Maneuver | 593 | - | - | - | - | - |
| Stage 1 | 807 | - | - | - | - | - |
| Stage 2 | 844 | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s | 11.2 | 0 | 0.3 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | 631 | 1311 | - |
| HCM Lane V/C Ratio | - | - | 0.075 | 0.005 | - |
| HCM Control Delay (s) | - | - | 11.2 | 7.8 | 0 |
| HCM Lane LOS | - | - | B | A | A |
| HCM 95th %tile Q(veh) | - | - | 0.2 | 0 | - |

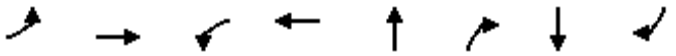
| Intersection | |
|---|---|
| Int Delay, s/veh | 0 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 0 | 172 | 0 | 0 | 147 |
| Future Vol, veh/h | 0 | 0 | 172 | 0 | 0 | 147 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 9 | 9 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 84 | 84 | 84 | 84 | 84 | 84 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 0 | 205 | 0 | 0 | 175 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 389 | 214 | 0 | 0 | 214 | 0 |
| Stage 1 | 214 | - | - | - | - | - |
| Stage 2 | 175 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 615 | 826 | - | - | 1356 | - |
| Stage 1 | 822 | - | - | - | - | - |
| Stage 2 | 855 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 611 | 820 | - | - | 1346 | - |
| Mov Cap-2 Maneuver | 611 | - | - | - | - | - |
| Stage 1 | 816 | - | - | - | - | - |
| Stage 2 | 855 | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s | 0 | 0 | 0 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | - | 1346 | - |
| HCM Lane V/C Ratio | - | - | - | - | - |
| HCM Control Delay (s) | - | - | 0 | 0 | - |
| HCM Lane LOS | - | - | A | A | - |
| HCM 95th %tile Q(veh) | - | - | - | 0 | - |



| Lane Group | EBL | EBT | WBL | WBT | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 4 | 1140 | 157 | 667 | 36 | 216 | 131 | 6 |
| v/c Ratio | 0.01 | 0.61 | 0.70 | 0.43 | 0.11 | 0.41 | 0.41 | 0.01 |
| Control Delay | 40.0 | 20.3 | 60.4 | 18.7 | 36.0 | 7.3 | 42.2 | 0.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 40.0 | 20.3 | 60.4 | 18.7 | 36.0 | 7.3 | 42.2 | 0.0 |
| Queue Length 50th (ft) | 2 | 287 | 121 | 93 | 21 | 0 | 82 | 0 |
| Queue Length 95th (ft) | 12 | 391 | 189 | 185 | 49 | 59 | 142 | 0 |
| Internal Link Dist (ft) | | 964 | | 411 | 1568 | | 382 | |
| Turn Bay Length (ft) | 170 | | 160 | | | 60 | | 130 |
| Base Capacity (vph) | 300 | 1869 | 329 | 1565 | 330 | 531 | 318 | 405 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.01 | 0.61 | 0.48 | 0.43 | 0.11 | 0.41 | 0.41 | 0.01 |

Intersection Summary

| Lane Group | EBL | EBT | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | |
| Traffic Volume (vph) | 4 | 972 | 140 | 547 | 27 | 5 | 192 | 98 | 19 | 5 |
| Future Volume (vph) | 4 | 972 | 140 | 547 | 27 | 5 | 192 | 98 | 19 | 5 |
| Turn Type | Prot | NA | Prot | NA | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 5 | 2 | 1 | 6 | | 8 | | | 4 | |
| Permitted Phases | | | | | 8 | | 8 | 4 | | 4 |
| Detector Phase | 5 | 2 | 1 | 6 | 8 | 8 | 8 | 4 | 4 | 4 |
| Switch Phase | | | | | | | | | | |
| Minimum Initial (s) | 6.0 | 10.0 | 6.0 | 10.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| Minimum Split (s) | 20.0 | 30.0 | 20.0 | 28.0 | 29.0 | 29.0 | 29.0 | 29.0 | 29.0 | 29.0 |
| Total Split (s) | 23.0 | 59.0 | 25.0 | 61.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| Total Split (%) | 20.2% | 51.8% | 21.9% | 53.5% | 26.3% | 26.3% | 26.3% | 26.3% | 26.3% | 26.3% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | -1.0 | 0.0 | -1.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | Max | C-Max | None | C-Max | Max | Max | Max | Max | Max | Max |
| Act Effct Green (s) | 19.0 | 61.6 | 14.4 | 57.0 | | 26.0 | 26.0 | | 26.0 | 26.0 |
| Actuated g/C Ratio | 0.17 | 0.54 | 0.13 | 0.50 | | 0.23 | 0.23 | | 0.23 | 0.23 |
| v/c Ratio | 0.01 | 0.61 | 0.70 | 0.43 | | 0.11 | 0.41 | | 0.41 | 0.01 |
| Control Delay | 40.0 | 20.3 | 60.4 | 18.7 | | 36.0 | 7.3 | | 42.2 | 0.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 40.0 | 20.3 | 60.4 | 18.7 | | 36.0 | 7.3 | | 42.2 | 0.0 |
| LOS | D | C | E | B | | D | A | | D | A |
| Approach Delay | | 20.4 | | 26.6 | | 11.4 | | | 40.3 | |
| Approach LOS | | C | | C | | B | | | D | |

| Intersection Summary | |
|---|---|
| Cycle Length: 114 | |
| Actuated Cycle Length: 114 | |
| Offset: 32 (28%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow | |
| Natural Cycle: 80 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.70 | |
| Intersection Signal Delay: 22.8 | Intersection LOS: C |
| Intersection Capacity Utilization 82.1% | ICU Level of Service E |
| Analysis Period (min) 15 | |

Splits and Phases: 4: Lockewood Ln/Skypark Dr & Mt. Hermon Rd



| Intersection | |
|---|---|
| Int Delay, s/veh | 0 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 1262 | 0 | 0 | 733 | 0 | 0 |
| Future Vol, veh/h | 1262 | 0 | 0 | 733 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 6 | 6 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 89 | 89 | 89 | 89 | 89 | 89 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1418 | 0 | 0 | 824 | 0 | 0 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | - | 715 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.94 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.32 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 373 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | - | 371 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s | 0 | 0 | 0 |
| HCM LOS | | | A |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | - | - | - | - |
| HCM Lane V/C Ratio | - | - | - | - |
| HCM Control Delay (s) | 0 | - | - | - |
| HCM Lane LOS | A | - | - | - |
| HCM 95th %tile Q(veh) | - | - | - | - |



| Lane Group | EBL | EBT | WBL | WBT | WBR | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 42 | 1347 | 43 | 733 | 48 | 69 | 44 | 44 | 10 |
| v/c Ratio | 0.22 | 0.49 | 0.43 | 0.31 | 0.05 | 0.60 | 0.19 | 0.39 | 0.04 |
| Control Delay | 50.9 | 1.3 | 72.5 | 3.6 | 0.3 | 69.9 | 1.7 | 57.5 | 0.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 50.9 | 1.3 | 72.5 | 3.6 | 0.3 | 69.9 | 1.7 | 57.5 | 0.3 |
| Queue Length 50th (ft) | 32 | 22 | 33 | 79 | 0 | 50 | 0 | 31 | 0 |
| Queue Length 95th (ft) | m56 | 26 | 72 | 57 | 0 | 93 | 0 | 65 | 0 |
| Internal Link Dist (ft) | | 288 | | 439 | | 547 | | 549 | |
| Turn Bay Length (ft) | 70 | | 140 | | 105 | | 40 | | 30 |
| Base Capacity (vph) | 245 | 2726 | 135 | 2387 | 1060 | 269 | 413 | 266 | 416 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.17 | 0.49 | 0.32 | 0.31 | 0.05 | 0.26 | 0.11 | 0.17 | 0.02 |

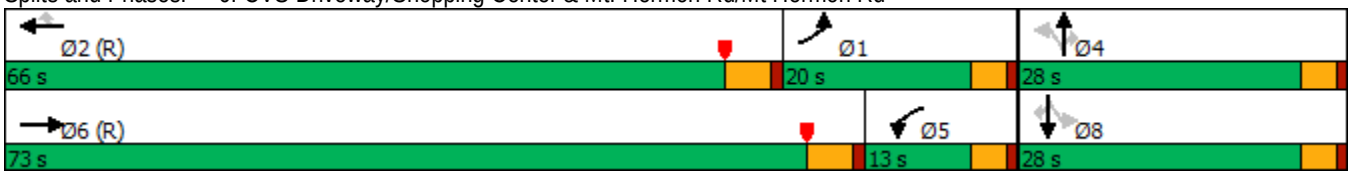
Intersection Summary

m Volume for 95th percentile queue is metered by upstream signal.

| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | |
| Traffic Volume (vph) | 37 | 1139 | 38 | 652 | 43 | 54 | 7 | 39 | 33 | 6 | 9 |
| Future Volume (vph) | 37 | 1139 | 38 | 652 | 43 | 54 | 7 | 39 | 33 | 6 | 9 |
| Turn Type | Prot | NA | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 1 | 6 | 5 | 2 | | | 4 | | | 8 | |
| Permitted Phases | | | | | 2 | 4 | | 4 | 8 | | 8 |
| Detector Phase | 1 | 6 | 5 | 2 | 2 | 4 | 4 | 4 | 8 | 8 | 8 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 4.0 | 10.0 | 10.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Minimum Split (s) | 20.0 | 27.0 | 8.0 | 27.0 | 27.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 |
| Total Split (s) | 20.0 | 73.0 | 13.0 | 66.0 | 66.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 |
| Total Split (%) | 17.5% | 64.0% | 11.4% | 57.9% | 57.9% | 24.6% | 24.6% | 24.6% | 24.6% | 24.6% | 24.6% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | -1.0 | 0.0 | -1.0 | -1.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lag | Lead | Lag | Lead | Lead | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 12.3 | 89.3 | 6.7 | 83.7 | 83.7 | | 10.3 | 10.3 | | 10.2 | 10.2 |
| Actuated g/C Ratio | 0.11 | 0.78 | 0.06 | 0.73 | 0.73 | | 0.09 | 0.09 | | 0.09 | 0.09 |
| v/c Ratio | 0.22 | 0.49 | 0.43 | 0.31 | 0.05 | | 0.60 | 0.19 | | 0.39 | 0.04 |
| Control Delay | 50.9 | 1.3 | 72.2 | 3.6 | 0.3 | | 69.9 | 1.7 | | 57.5 | 0.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 50.9 | 1.3 | 72.2 | 3.6 | 0.3 | | 69.9 | 1.7 | | 57.5 | 0.3 |
| LOS | D | A | E | A | A | | E | A | | E | A |
| Approach Delay | | 2.8 | | 7.0 | | | 43.3 | | | 46.9 | |
| Approach LOS | | A | | A | | | D | | | D | |

| Intersection Summary | |
|---|---|
| Cycle Length: 114 | |
| Actuated Cycle Length: 114 | |
| Offset: 64 (56%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow | |
| Natural Cycle: 75 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.60 | |
| Intersection Signal Delay: 7.1 | Intersection LOS: A |
| Intersection Capacity Utilization 52.4% | ICU Level of Service A |
| Analysis Period (min) 15 | |

Splits and Phases: 6: CVS Driveway/Shopping Center & Mt. Hermon Rd/Mt Hermon Rd





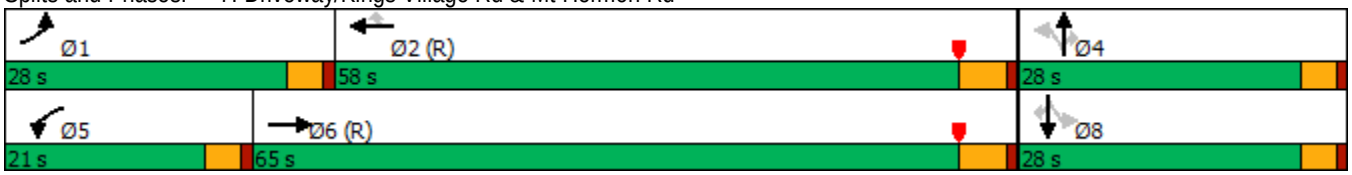
| Lane Group | EBL | EBT | WBL | WBT | WBR | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 136 | 1216 | 26 | 668 | 104 | 7 | 20 | 73 | 91 |
| v/c Ratio | 0.70 | 0.45 | 0.29 | 0.29 | 0.10 | 0.04 | 0.08 | 0.58 | 0.37 |
| Control Delay | 56.1 | 11.8 | 63.8 | 3.5 | 0.3 | 41.7 | 0.6 | 64.8 | 12.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 56.1 | 11.9 | 63.8 | 3.6 | 0.3 | 41.7 | 0.6 | 64.8 | 12.1 |
| Queue Length 50th (ft) | 99 | 219 | 21 | 31 | 1 | 5 | 0 | 52 | 0 |
| Queue Length 95th (ft) | 162 | 418 | 52 | 30 | 0 | 17 | 0 | 93 | 41 |
| Internal Link Dist (ft) | | 532 | | 327 | | 464 | | 1400 | |
| Turn Bay Length (ft) | 175 | | 150 | | 130 | | 30 | | 50 |
| Base Capacity (vph) | 361 | 2674 | 269 | 2271 | 1004 | 308 | 394 | 244 | 384 |
| Starvation Cap Reductn | 0 | 0 | 0 | 547 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 228 | 0 | 0 | 0 | 0 | 6 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.38 | 0.50 | 0.10 | 0.39 | 0.10 | 0.02 | 0.05 | 0.30 | 0.24 |

Intersection Summary

| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | |
| Traffic Volume (vph) | 129 | 1137 | 25 | 635 | 99 | 4 | 3 | 19 | 67 | 2 | 86 |
| Future Volume (vph) | 129 | 1137 | 25 | 635 | 99 | 4 | 3 | 19 | 67 | 2 | 86 |
| Turn Type | Prot | NA | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 1 | 6 | 5 | 2 | | | 4 | | | 8 | |
| Permitted Phases | | | | | 2 | 4 | | 4 | 8 | | 8 |
| Detector Phase | 1 | 6 | 5 | 2 | 2 | 4 | 4 | 4 | 8 | 8 | 8 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 4.0 | 10.0 | 10.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Minimum Split (s) | 8.0 | 27.0 | 8.0 | 27.0 | 27.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 |
| Total Split (s) | 28.0 | 65.0 | 21.0 | 58.0 | 58.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 |
| Total Split (%) | 24.6% | 57.0% | 18.4% | 50.9% | 50.9% | 24.6% | 24.6% | 24.6% | 24.6% | 24.6% | 24.6% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | -1.0 | 0.0 | -1.0 | -1.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 12.9 | 87.3 | 5.7 | 76.7 | 76.7 | | 12.3 | 12.3 | | 12.3 | 12.3 |
| Actuated g/C Ratio | 0.11 | 0.77 | 0.05 | 0.67 | 0.67 | | 0.11 | 0.11 | | 0.11 | 0.11 |
| v/c Ratio | 0.70 | 0.45 | 0.29 | 0.29 | 0.10 | | 0.04 | 0.08 | | 0.58 | 0.37 |
| Control Delay | 56.1 | 11.8 | 63.4 | 3.5 | 0.3 | | 41.7 | 0.6 | | 64.8 | 12.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 56.1 | 11.9 | 63.4 | 3.6 | 0.3 | | 41.7 | 0.6 | | 64.8 | 12.1 |
| LOS | E | B | E | A | A | | D | A | | E | B |
| Approach Delay | | 16.3 | | 5.2 | | | 11.3 | | | 35.6 | |
| Approach LOS | | B | | A | | | B | | | D | |

| Intersection Summary | |
|---|---|
| Cycle Length: 114 | |
| Actuated Cycle Length: 114 | |
| Offset: 28 (25%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow | |
| Natural Cycle: 65 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.70 | |
| Intersection Signal Delay: 13.8 | Intersection LOS: B |
| Intersection Capacity Utilization 57.0% | ICU Level of Service B |
| Analysis Period (min) 15 | |

Splits and Phases: 7: Driveway/Kings Village Rd & Mt Hermon Rd





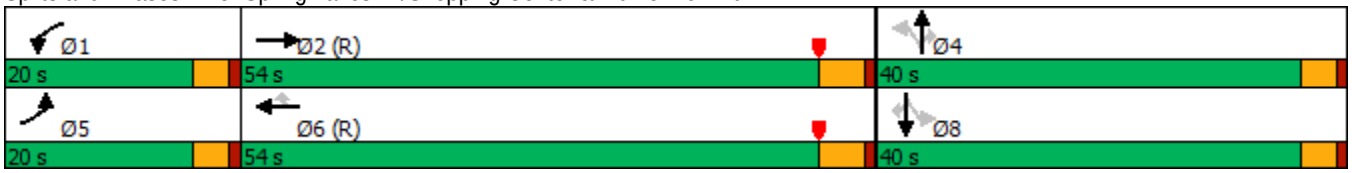
| Lane Group | EBL | EBT | WBL | WBT | WBR | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 48 | 1276 | 49 | 812 | 204 | 16 | 23 | 127 | 30 |
| v/c Ratio | 0.44 | 0.53 | 0.46 | 0.34 | 0.18 | 0.07 | 0.08 | 0.64 | 0.11 |
| Control Delay | 77.7 | 11.5 | 70.7 | 4.1 | 0.4 | 37.5 | 0.8 | 58.2 | 3.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 77.7 | 11.5 | 70.7 | 4.1 | 0.4 | 37.5 | 0.8 | 58.2 | 3.1 |
| Queue Length 50th (ft) | 38 | 270 | 37 | 31 | 0 | 10 | 0 | 90 | 0 |
| Queue Length 95th (ft) | 80 | 526 | 79 | 94 | 3 | 27 | 2 | 132 | 9 |
| Internal Link Dist (ft) | | 327 | | 893 | | 496 | | 475 | |
| Turn Bay Length (ft) | 80 | | 185 | | | | 30 | | 30 |
| Base Capacity (vph) | 253 | 2415 | 234 | 2357 | 1133 | 478 | 539 | 423 | 505 |
| Starvation Cap Reductn | 0 | 112 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.19 | 0.55 | 0.21 | 0.34 | 0.18 | 0.03 | 0.04 | 0.30 | 0.06 |

Intersection Summary

| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | |
| Traffic Volume (vph) | 44 | 1170 | 45 | 747 | 188 | 12 | 3 | 21 | 115 | 2 | 28 |
| Future Volume (vph) | 44 | 1170 | 45 | 747 | 188 | 12 | 3 | 21 | 115 | 2 | 28 |
| Turn Type | Prot | NA | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 5 | 2 | 1 | 6 | | | 4 | | | 8 | |
| Permitted Phases | | | | | 6 | 4 | | 4 | 8 | | 8 |
| Detector Phase | 5 | 2 | 1 | 6 | 6 | 4 | 4 | 4 | 8 | 8 | 8 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 4.0 | 10.0 | 10.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Minimum Split (s) | 8.0 | 30.0 | 8.0 | 30.0 | 30.0 | 35.0 | 35.0 | 35.0 | 26.0 | 26.0 | 26.0 |
| Total Split (s) | 20.0 | 54.0 | 20.0 | 54.0 | 54.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| Total Split (%) | 17.5% | 47.4% | 17.5% | 47.4% | 47.4% | 35.1% | 35.1% | 35.1% | 35.1% | 35.1% | 35.1% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | -1.0 | 0.0 | -1.0 | -1.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 7.0 | 79.3 | 7.3 | 79.6 | 79.6 | | 17.0 | 17.0 | | 17.0 | 17.0 |
| Actuated g/C Ratio | 0.06 | 0.70 | 0.06 | 0.70 | 0.70 | | 0.15 | 0.15 | | 0.15 | 0.15 |
| v/c Ratio | 0.44 | 0.53 | 0.46 | 0.34 | 0.18 | | 0.07 | 0.08 | | 0.64 | 0.11 |
| Control Delay | 77.7 | 11.5 | 70.3 | 4.1 | 0.4 | | 37.5 | 0.8 | | 58.2 | 3.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 77.7 | 11.5 | 70.3 | 4.1 | 0.4 | | 37.5 | 0.8 | | 58.2 | 3.1 |
| LOS | E | B | E | A | A | | D | A | | E | A |
| Approach Delay | | 13.9 | | 6.4 | | | 15.8 | | | 47.7 | |
| Approach LOS | | B | | A | | | B | | | D | |

| Intersection Summary | |
|---|---|
| Cycle Length: 114 | |
| Actuated Cycle Length: 114 | |
| Offset: 28 (25%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow | |
| Natural Cycle: 75 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.64 | |
| Intersection Signal Delay: 12.9 | Intersection LOS: B |
| Intersection Capacity Utilization 58.5% | ICU Level of Service B |
| Analysis Period (min) 15 | |

Splits and Phases: 8: Spring Lakes Dr/Shopping Center & Mt Hermon Rd





| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 476 | 966 | 118 | 633 | 524 | 73 | 132 | 197 | 487 | 66 | 283 |
| v/c Ratio | 0.81 | 0.59 | 0.69 | 0.46 | 0.56 | 0.57 | 0.62 | 0.56 | 0.82 | 0.16 | 0.52 |
| Control Delay | 60.2 | 21.7 | 79.0 | 23.6 | 4.6 | 67.3 | 59.6 | 12.4 | 57.5 | 35.8 | 7.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 60.2 | 21.7 | 79.0 | 23.6 | 4.6 | 67.3 | 59.6 | 12.4 | 57.5 | 35.8 | 7.5 |
| Queue Length 50th (ft) | 179 | 140 | 93 | 98 | 0 | 53 | 95 | 0 | 177 | 40 | 0 |
| Queue Length 95th (ft) | 246 | 356 | 155 | 201 | 96 | 99 | 144 | 62 | 233 | 72 | 65 |
| Internal Link Dist (ft) | | 893 | | 795 | | | 318 | | | 505 | |
| Turn Bay Length (ft) | 300 | | 275 | | 100 | 190 | | 150 | 220 | | |
| Base Capacity (vph) | 681 | 1626 | 186 | 1367 | 943 | 179 | 396 | 482 | 669 | 550 | 635 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.70 | 0.59 | 0.63 | 0.46 | 0.56 | 0.41 | 0.33 | 0.41 | 0.73 | 0.12 | 0.45 |

Intersection Summary

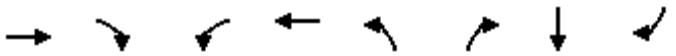
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 438 | 858 | 30 | 109 | 582 | 482 | 67 | 121 | 181 | 448 | 61 | 260 |
| Future Volume (veh/h) | 438 | 858 | 30 | 109 | 582 | 482 | 67 | 121 | 181 | 448 | 61 | 260 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.94 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1885 | 1826 | 1707 | 1841 | 1796 | 1870 | 1811 | 1885 | 1870 | 1885 | 1856 | 1826 |
| Adj Flow Rate, veh/h | 476 | 933 | 33 | 118 | 633 | 0 | 73 | 132 | 197 | 487 | 66 | 0 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 1 | 5 | 13 | 4 | 7 | 2 | 6 | 1 | 2 | 1 | 3 | 5 |
| Cap, veh/h | 528 | 1565 | 55 | 142 | 1322 | | 93 | 305 | 242 | 552 | 495 | |
| Arrive On Green | 0.30 | 0.92 | 0.90 | 0.14 | 0.65 | 0.00 | 0.05 | 0.16 | 0.16 | 0.16 | 0.27 | 0.00 |
| Sat Flow, veh/h | 3483 | 3418 | 121 | 1753 | 3413 | 1585 | 1725 | 1885 | 1496 | 3483 | 1856 | 1547 |
| Grp Volume(v), veh/h | 476 | 474 | 492 | 118 | 633 | 0 | 73 | 132 | 197 | 487 | 66 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1742 | 1735 | 1804 | 1753 | 1706 | 1585 | 1725 | 1885 | 1496 | 1742 | 1856 | 1547 |
| Q Serve(g_s), s | 14.9 | 5.8 | 5.8 | 7.5 | 10.8 | 0.0 | 4.8 | 7.2 | 14.5 | 15.6 | 3.1 | 0.0 |
| Cycle Q Clear(g_c), s | 14.9 | 5.8 | 5.8 | 7.5 | 10.8 | 0.0 | 4.8 | 7.2 | 14.5 | 15.6 | 3.1 | 0.0 |
| Prop In Lane | 1.00 | | 0.07 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 528 | 794 | 826 | 142 | 1322 | | 93 | 305 | 242 | 552 | 495 | |
| V/C Ratio(X) | 0.90 | 0.60 | 0.60 | 0.83 | 0.48 | | 0.79 | 0.43 | 0.81 | 0.88 | 0.13 | |
| Avail Cap(c_a), veh/h | 672 | 794 | 826 | 169 | 1322 | | 182 | 397 | 315 | 672 | 553 | |
| HCM Platoon Ratio | 2.00 | 2.00 | 2.00 | 1.67 | 1.67 | 1.67 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.84 | 0.84 | 0.84 | 0.86 | 0.86 | 0.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.95 | 0.00 |
| Uniform Delay (d), s/veh | 38.9 | 2.8 | 2.9 | 48.5 | 14.2 | 0.0 | 53.3 | 43.0 | 46.1 | 46.9 | 31.8 | 0.0 |
| Incr Delay (d2), s/veh | 9.9 | 2.8 | 2.7 | 18.8 | 1.1 | 0.0 | 5.5 | 0.4 | 9.1 | 9.7 | 0.0 | 0.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 6.0 | 1.7 | 1.7 | 3.8 | 3.5 | 0.0 | 2.2 | 3.4 | 5.9 | 7.4 | 1.4 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 48.8 | 5.6 | 5.6 | 67.3 | 15.3 | 0.0 | 58.8 | 43.4 | 55.2 | 56.6 | 31.8 | 0.0 |
| LnGrp LOS | D | A | A | E | B | | E | D | E | E | C | |
| Approach Vol, veh/h | | 1442 | | | 751 | A | | 402 | | | 553 | A |
| Approach Delay, s/veh | | 19.8 | | | 23.5 | | | 52.0 | | | 53.6 | |
| Approach LOS | | B | | | C | | | D | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.3 | 56.2 | 22.1 | 22.5 | 21.3 | 48.2 | 10.1 | 34.4 |
| Change Period (Y+Rc), s | 4.0 | 5.0 | 4.0 | 4.0 | 4.0 | 5.0 | 4.0 | 4.0 |
| Max Green Setting (Gmax), s | 11.0 | 40.0 | 22.0 | 24.0 | 22.0 | 29.0 | 12.0 | 34.0 |
| Max Q Clear Time (g_c+I1), s | 9.5 | 7.8 | 17.6 | 16.5 | 16.9 | 12.8 | 6.8 | 5.1 |
| Green Ext Time (p_c), s | 0.0 | 7.0 | 0.5 | 0.4 | 0.4 | 3.8 | 0.0 | 0.2 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 30.7 |
| HCM 6th LOS | C |

**Notes**

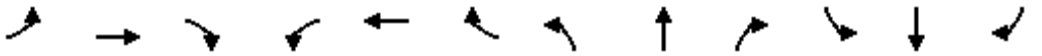
Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.



| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 1637 | 64 | 60 | 1037 | 169 | 179 | 29 | 214 |
| v/c Ratio | 0.91 | 0.08 | 0.54 | 0.61 | 0.31 | 0.44 | 0.13 | 0.69 |
| Control Delay | 29.0 | 3.8 | 63.7 | 18.8 | 37.8 | 10.4 | 36.0 | 35.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 29.0 | 3.8 | 63.7 | 18.8 | 37.8 | 10.4 | 36.0 | 35.3 |
| Queue Length 50th (ft) | 391 | 0 | 34 | 191 | 44 | 0 | 16 | 83 |
| Queue Length 95th (ft) | #856 | 22 | #122 | 392 | 94 | 65 | 40 | 155 |
| Internal Link Dist (ft) | 1450 | | | 401 | | | 369 | |
| Turn Bay Length (ft) | | 100 | 190 | | 130 | 180 | | 350 |
| Base Capacity (vph) | 3253 | 1474 | 111 | 2171 | 758 | 493 | 606 | 895 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.50 | 0.04 | 0.54 | 0.48 | 0.22 | 0.36 | 0.05 | 0.24 |

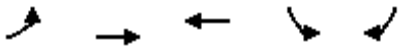
Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 0 | 1490 | 58 | 55 | 944 | 0 | 154 | 0 | 163 | 5 | 22 | 195 |
| Future Volume (vph) | 0 | 1490 | 58 | 55 | 944 | 0 | 154 | 0 | 163 | 5 | 22 | 195 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 4.0 | 4.0 | 4.0 | 4.0 | | 4.0 | | 4.0 | | 4.0 | 4.0 |
| Lane Util. Factor | | 0.95 | 1.00 | 1.00 | 0.95 | | 0.97 | | 1.00 | | 1.00 | 1.00 |
| Frpb, ped/bikes | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | | 1.00 | | 1.00 | 0.99 |
| Flpb, ped/bikes | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | | 1.00 | | 1.00 | 1.00 |
| Frt | | 1.00 | 0.85 | 1.00 | 1.00 | | 1.00 | | 0.85 | | 1.00 | 0.85 |
| Flt Protected | | 1.00 | 1.00 | 0.95 | 1.00 | | 0.95 | | 1.00 | | 0.99 | 1.00 |
| Satd. Flow (prot) | | 3505 | 1583 | 1719 | 3471 | | 3467 | | 1615 | | 1884 | 1500 |
| Flt Permitted | | 1.00 | 1.00 | 0.95 | 1.00 | | 0.95 | | 1.00 | | 0.99 | 1.00 |
| Satd. Flow (perm) | | 3505 | 1583 | 1719 | 3471 | | 3467 | | 1615 | | 1884 | 1500 |
| Peak-hour factor, PHF | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |
| Adj. Flow (vph) | 0 | 1637 | 64 | 60 | 1037 | 0 | 169 | 0 | 179 | 5 | 24 | 214 |
| RTOR Reduction (vph) | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 151 | 0 | 0 | 46 |
| Lane Group Flow (vph) | 0 | 1637 | 33 | 60 | 1037 | 0 | 169 | 0 | 28 | 0 | 29 | 168 |
| Confl. Peds. (#/hr) | 1 | | | | | 1 | 1 | | | | | 1 |
| Confl. Bikes (#/hr) | | | | | | 1 | | | | | | |
| Heavy Vehicles (%) | 0% | 3% | 2% | 5% | 4% | 0% | 1% | 0% | 0% | 0% | 0% | 7% |
| Turn Type | | NA | Perm | Prot | NA | | Prot | | Perm | Split | NA | custom |
| Protected Phases | | 6 | | 5 | 2 | | 7 | | | 8 | 8 | 1 |
| Permitted Phases | | | 6 | | | | | | 7 | | | 8 |
| Actuated Green, G (s) | | 42.3 | 42.3 | 5.2 | 40.1 | | 12.8 | | 12.8 | | 7.1 | 15.0 |
| Effective Green, g (s) | | 43.6 | 43.6 | 5.4 | 41.4 | | 13.4 | | 13.4 | | 7.3 | 14.4 |
| Actuated g/C Ratio | | 0.51 | 0.51 | 0.06 | 0.48 | | 0.16 | | 0.16 | | 0.09 | 0.17 |
| Clearance Time (s) | | 5.3 | 5.3 | 4.2 | 5.3 | | 4.6 | | 4.6 | | 4.2 | 3.7 |
| Vehicle Extension (s) | | 3.5 | 3.5 | 3.0 | 3.5 | | 3.0 | | 3.0 | | 3.0 | 1.0 |
| Lane Grp Cap (vph) | | 1783 | 805 | 108 | 1676 | | 542 | | 252 | | 160 | 252 |
| v/s Ratio Prot | | c0.47 | | 0.03 | 0.30 | | c0.05 | | | | 0.02 | c0.06 |
| v/s Ratio Perm | | | 0.02 | | | | | | 0.02 | | | 0.05 |
| v/c Ratio | | 0.92 | 0.04 | 0.56 | 0.62 | | 0.31 | | 0.11 | | 0.18 | 0.67 |
| Uniform Delay, d1 | | 19.4 | 10.6 | 39.0 | 16.3 | | 32.1 | | 31.0 | | 36.4 | 33.4 |
| Progression Factor | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | | 1.00 | | 1.00 | 1.00 |
| Incremental Delay, d2 | | 8.1 | 0.0 | 6.1 | 0.7 | | 0.3 | | 0.2 | | 0.5 | 5.1 |
| Delay (s) | | 27.5 | 10.6 | 45.1 | 17.1 | | 32.4 | | 31.2 | | 37.0 | 38.5 |
| Level of Service | | C | B | D | B | | C | | C | | D | D |
| Approach Delay (s) | | 26.9 | | | 18.6 | | | 31.8 | | | 38.3 | |
| Approach LOS | | C | | | B | | | C | | | D | |

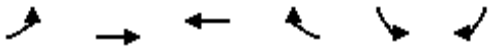
| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 25.5 | HCM 2000 Level of Service | C |
| HCM 2000 Volume to Capacity ratio | 0.77 | | |
| Actuated Cycle Length (s) | 85.7 | Sum of lost time (s) | 16.0 |
| Intersection Capacity Utilization | 65.3% | ICU Level of Service | C |
| Analysis Period (min) | 15 | | |
| c Critical Lane Group | | | |



| Lane Group | EBL | EBT | WBT | SBL | SBR |
|---|---|---|---|---|---|
| Lane Group Flow (vph) | 109 | 567 | 719 | 98 | 106 |
| v/c Ratio | 0.47 | 0.43 | 0.71 | 0.38 | 0.35 |
| Control Delay | 39.1 | 6.3 | 21.1 | 34.6 | 9.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 39.1 | 6.3 | 21.1 | 34.6 | 9.9 |
| Queue Length 50th (ft) | 48 | 85 | 244 | 43 | 0 |
| Queue Length 95th (ft) | 103 | 197 | #553 | 87 | 37 |
| Internal Link Dist (ft) | | 297 | 114 | 2513 | |
| Turn Bay Length (ft) | 295 | | | | 70 |
| Base Capacity (vph) | 692 | 1778 | 1010 | 923 | 828 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.16 | 0.32 | 0.71 | 0.11 | 0.13 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Volume (veh/h) | 95 | 493 | 544 | 82 | 85 | 92 |
| Future Volume (veh/h) | 95 | 493 | 544 | 82 | 85 | 92 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 0.98 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 109 | 567 | 625 | 94 | 98 | 106 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 146 | 1296 | 823 | 124 | 196 | 175 |
| Arrive On Green | 0.08 | 0.69 | 0.52 | 0.52 | 0.11 | 0.11 |
| Sat Flow, veh/h | 1781 | 1870 | 1583 | 238 | 1781 | 1585 |
| Grp Volume(v), veh/h | 109 | 567 | 0 | 719 | 98 | 106 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 0 | 1822 | 1781 | 1585 |
| Q Serve(g_s), s | 3.3 | 7.3 | 0.0 | 17.2 | 2.8 | 3.5 |
| Cycle Q Clear(g_c), s | 3.3 | 7.3 | 0.0 | 17.2 | 2.8 | 3.5 |
| Prop In Lane | 1.00 | | | 0.13 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 146 | 1296 | 0 | 946 | 196 | 175 |
| V/C Ratio(X) | 0.75 | 0.44 | 0.00 | 0.76 | 0.50 | 0.61 |
| Avail Cap(c_a), veh/h | 976 | 1366 | 0 | 1330 | 1301 | 1157 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 24.6 | 3.7 | 0.0 | 10.4 | 22.9 | 23.2 |
| Incr Delay (d2), s/veh | 7.4 | 0.5 | 0.0 | 3.0 | 2.4 | 4.1 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.6 | 1.6 | 0.0 | 6.1 | 1.2 | 3.2 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d),s/veh | 32.0 | 4.2 | 0.0 | 13.4 | 25.3 | 27.3 |
| LnGrp LOS | C | A | A | B | C | C |
| Approach Vol, veh/h | | 676 | 719 | | 204 | |
| Approach Delay, s/veh | | 8.7 | 13.4 | | 26.3 | |
| Approach LOS | | A | B | | C | |

| Timer - Assigned Phs | | 2 | | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | | 43.4 | | 11.3 | 9.5 | 34.0 |
| Change Period (Y+Rc), s | | 5.5 | | 5.3 | 5.0 | 5.5 |
| Max Green Setting (Gmax), s | | 40.0 | | 40.0 | 30.0 | 40.0 |
| Max Q Clear Time (g_c+I1), s | | 9.3 | | 5.5 | 5.3 | 19.2 |
| Green Ext Time (p_c), s | | 8.1 | | 0.8 | 0.3 | 9.3 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 13.1 |
| HCM 6th LOS | B |

| Intersection | |
|---|---|
| Int Delay, s/veh | 1.5 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 32 | 16 | 183 | 16 | 13 | 164 |
| Future Vol, veh/h | 32 | 16 | 183 | 16 | 13 | 164 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 19 | 19 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 93 | 93 | 93 | 93 | 93 | 93 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 34 | 17 | 197 | 17 | 14 | 176 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 429 | 225 | 0 | 0 | 233 | 0 |
| Stage 1 | 225 | - | - | - | - | - |
| Stage 2 | 204 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 583 | 814 | - | - | 1335 | - |
| Stage 1 | 812 | - | - | - | - | - |
| Stage 2 | 830 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 567 | 801 | - | - | 1314 | - |
| Mov Cap-2 Maneuver | 567 | - | - | - | - | - |
| Stage 1 | 799 | - | - | - | - | - |
| Stage 2 | 820 | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s | 11.2 | 0 | 0.6 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | 628 | 1314 | - |
| HCM Lane V/C Ratio | - | - | 0.082 | 0.011 | - |
| HCM Control Delay (s) | - | - | 11.2 | 7.8 | 0 |
| HCM Lane LOS | - | - | B | A | A |
| HCM 95th %tile Q(veh) | - | - | 0.3 | 0 | - |

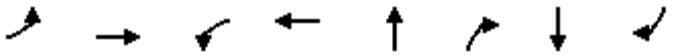
| Intersection | |
|---|---|
| Int Delay, s/veh | 0 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 0 | 199 | 0 | 0 | 177 |
| Future Vol, veh/h | 0 | 0 | 199 | 0 | 0 | 177 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 19 | 19 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 93 | 93 | 93 | 93 | 93 | 93 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 0 | 214 | 0 | 0 | 190 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 423 | 233 | 0 | 0 | 233 | 0 |
| Stage 1 | 233 | - | - | - | - | - |
| Stage 2 | 190 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 588 | 806 | - | - | 1335 | - |
| Stage 1 | 806 | - | - | - | - | - |
| Stage 2 | 842 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 579 | 793 | - | - | 1314 | - |
| Mov Cap-2 Maneuver | 579 | - | - | - | - | - |
| Stage 1 | 793 | - | - | - | - | - |
| Stage 2 | 842 | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s | 0 | 0 | 0 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | - | 1314 | - |
| HCM Lane V/C Ratio | - | - | - | - | - |
| HCM Control Delay (s) | - | - | 0 | 0 | - |
| HCM Lane LOS | - | - | A | A | - |
| HCM 95th %tile Q(veh) | - | - | - | 0 | - |



| Lane Group | EBL | EBT | WBL | WBT | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 10 | 589 | 235 | 1378 | 36 | 140 | 62 | 8 |
| v/c Ratio | 0.11 | 0.31 | 0.78 | 0.54 | 0.12 | 0.33 | 0.22 | 0.02 |
| Control Delay | 57.0 | 16.9 | 69.3 | 3.3 | 41.5 | 9.0 | 43.3 | 0.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 57.0 | 16.9 | 69.3 | 3.3 | 41.5 | 9.0 | 43.3 | 0.1 |
| Queue Length 50th (ft) | 8 | 128 | 166 | 64 | 23 | 0 | 41 | 0 |
| Queue Length 95th (ft) | 26 | 190 | 220 | 76 | 54 | 55 | 83 | 0 |
| Internal Link Dist (ft) | | 964 | | 397 | 1557 | | 382 | |
| Turn Bay Length (ft) | 170 | | 160 | | | 60 | | 130 |
| Base Capacity (vph) | 300 | 1896 | 466 | 2532 | 303 | 418 | 284 | 373 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.03 | 0.31 | 0.50 | 0.54 | 0.12 | 0.33 | 0.22 | 0.02 |

Intersection Summary

| Lane Group | EBL | EBT | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | |
| Traffic Volume (vph) | 10 | 558 | 230 | 1261 | 23 | 13 | 137 | 48 | 13 | 8 |
| Future Volume (vph) | 10 | 558 | 230 | 1261 | 23 | 13 | 137 | 48 | 13 | 8 |
| Turn Type | Prot | NA | Prot | NA | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 5 | 2 | 1 | 6 | | 8 | | | 4 | |
| Permitted Phases | | | | | 8 | | 8 | 4 | | 4 |
| Detector Phase | 5 | 2 | 1 | 6 | 8 | 8 | 8 | 4 | 4 | 4 |
| Switch Phase | | | | | | | | | | |
| Minimum Initial (s) | 6.0 | 10.0 | 6.0 | 10.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| Minimum Split (s) | 10.0 | 30.0 | 20.0 | 28.0 | 29.0 | 29.0 | 29.0 | 29.0 | 29.0 | 29.0 |
| Total Split (s) | 24.0 | 58.0 | 35.0 | 69.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 |
| Total Split (%) | 20.0% | 48.3% | 29.2% | 57.5% | 22.5% | 22.5% | 22.5% | 22.5% | 22.5% | 22.5% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 5.0 | 4.0 | 5.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | Max | Max | Max | Max | Max | Max |
| Act Effct Green (s) | 6.1 | 64.0 | 20.0 | 85.9 | | 23.0 | 23.0 | | 23.0 | 23.0 |
| Actuated g/C Ratio | 0.05 | 0.53 | 0.17 | 0.72 | | 0.19 | 0.19 | | 0.19 | 0.19 |
| v/c Ratio | 0.11 | 0.31 | 0.78 | 0.54 | | 0.12 | 0.33 | | 0.22 | 0.02 |
| Control Delay | 57.0 | 16.9 | 69.3 | 3.3 | | 41.5 | 9.0 | | 43.3 | 0.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 57.0 | 16.9 | 69.3 | 3.3 | | 41.5 | 9.0 | | 43.3 | 0.1 |
| LOS | E | B | E | A | | D | A | | D | A |
| Approach Delay | | 17.6 | | 12.9 | | 15.7 | | | 38.4 | |
| Approach LOS | | B | | B | | B | | | D | |

| Intersection Summary | |
|---|---|
| Cycle Length: 120 | |
| Actuated Cycle Length: 120 | |
| Offset: 73 (61%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow | |
| Natural Cycle: 80 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.78 | |
| Intersection Signal Delay: 14.9 | Intersection LOS: B |
| Intersection Capacity Utilization 74.4% | ICU Level of Service D |
| Analysis Period (min) 15 | |

Splits and Phases: 4: Lockewood Ln/Skypark Dr & Mt. Hermon Rd



| Intersection | |
|---|---|
| Int Delay, s/veh | 0 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 743 | 0 | 0 | 1580 | 0 | 0 |
| Future Vol, veh/h | 743 | 0 | 0 | 1580 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 7 | 7 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 808 | 0 | 0 | 1717 | 0 | 0 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | - | 411 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.94 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.32 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 590 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | - | 587 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s | 0 | 0 | 0 |
| HCM LOS | | | A |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | - | - | - | - |
| HCM Lane V/C Ratio | - | - | - | - |
| HCM Control Delay (s) | 0 | - | - | - |
| HCM Lane LOS | A | - | - | - |
| HCM 95th %tile Q(veh) | - | - | - | - |



| Lane Group | EBL | EBT | WBL | WBT | WBR | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 41 | 715 | 52 | 1427 | 107 | 171 | 44 | 128 | 37 |
| v/c Ratio | 0.43 | 0.31 | 0.48 | 0.60 | 0.10 | 0.87 | 0.12 | 0.76 | 0.10 |
| Control Delay | 57.5 | 9.1 | 84.5 | 4.7 | 1.4 | 84.3 | 0.6 | 71.4 | 0.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 57.5 | 9.1 | 84.5 | 4.7 | 1.4 | 84.3 | 0.6 | 71.4 | 0.5 |
| Queue Length 50th (ft) | 32 | 101 | 42 | 82 | 1 | 130 | 0 | 95 | 0 |
| Queue Length 95th (ft) | 71 | 147 | m65 | 115 | m8 | 197 | 0 | 153 | 0 |
| Internal Link Dist (ft) | | 297 | | 439 | | 547 | | 549 | |
| Turn Bay Length (ft) | 70 | | 140 | | 105 | | 40 | | 30 |
| Base Capacity (vph) | 105 | 2326 | 139 | 2377 | 1058 | 289 | 516 | 250 | 499 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.39 | 0.31 | 0.37 | 0.60 | 0.10 | 0.59 | 0.09 | 0.51 | 0.07 |

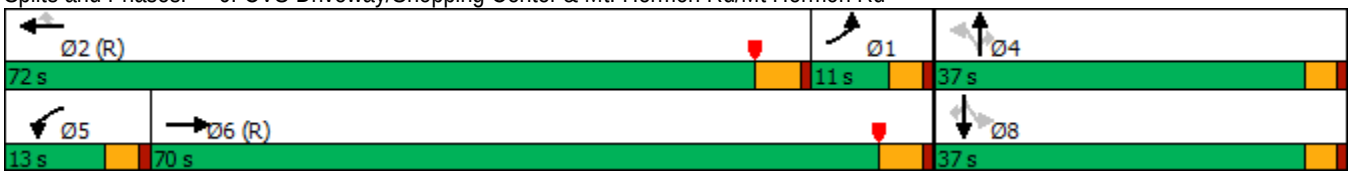
Intersection Summary

m Volume for 95th percentile queue is metered by upstream signal.

| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | |
| Traffic Volume (vph) | 40 | 657 | 51 | 1398 | 105 | 146 | 22 | 43 | 98 | 27 | 36 |
| Future Volume (vph) | 40 | 657 | 51 | 1398 | 105 | 146 | 22 | 43 | 98 | 27 | 36 |
| Turn Type | Prot | NA | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 1 | 6 | 5 | 2 | | | 4 | | | 8 | |
| Permitted Phases | | | | | 2 | 4 | | 4 | 8 | | 8 |
| Detector Phase | 1 | 6 | 5 | 2 | 2 | 4 | 4 | 4 | 8 | 8 | 8 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 4.0 | 10.0 | 10.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Minimum Split (s) | 8.0 | 27.0 | 8.0 | 27.0 | 27.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 |
| Total Split (s) | 11.0 | 70.0 | 13.0 | 72.0 | 72.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 |
| Total Split (%) | 9.2% | 58.3% | 10.8% | 60.0% | 60.0% | 30.8% | 30.8% | 30.8% | 30.8% | 30.8% | 30.8% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 5.0 | 4.0 | 5.0 | 5.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lag | Lag | Lead | Lead | Lead | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 6.4 | 79.0 | 7.3 | 79.8 | 79.8 | | 22.4 | 22.4 | | 22.4 | 22.4 |
| Actuated g/C Ratio | 0.05 | 0.66 | 0.06 | 0.66 | 0.66 | | 0.19 | 0.19 | | 0.19 | 0.19 |
| v/c Ratio | 0.43 | 0.31 | 0.48 | 0.60 | 0.10 | | 0.87 | 0.12 | | 0.76 | 0.10 |
| Control Delay | 57.5 | 9.1 | 84.5 | 4.7 | 1.4 | | 84.3 | 0.6 | | 71.4 | 0.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 57.5 | 9.1 | 84.5 | 4.7 | 1.4 | | 84.3 | 0.6 | | 71.4 | 0.5 |
| LOS | E | A | F | A | A | | F | A | | E | A |
| Approach Delay | | 11.7 | | 7.1 | | | 67.2 | | | 55.5 | |
| Approach LOS | | B | | A | | | E | | | E | |

| Intersection Summary | |
|---|---|
| Cycle Length: 120 | |
| Actuated Cycle Length: 120 | |
| Offset: 50 (42%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow | |
| Natural Cycle: 65 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.87 | |
| Intersection Signal Delay: 16.1 | Intersection LOS: B |
| Intersection Capacity Utilization 68.5% | ICU Level of Service C |
| Analysis Period (min) 15 | |

Splits and Phases: 6: CVS Driveway/Shopping Center & Mt. Hermon Rd/Mt Hermon Rd





| Lane Group | EBL | EBT | WBL | WBT | WBR | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 185 | 792 | 129 | 1394 | 144 | 67 | 73 | 162 | 309 |
| v/c Ratio | 0.81 | 0.35 | 0.70 | 0.64 | 0.16 | 0.35 | 0.24 | 0.81 | 0.73 |
| Control Delay | 68.6 | 12.9 | 86.3 | 3.8 | 0.5 | 48.8 | 11.2 | 76.2 | 25.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 68.6 | 12.9 | 86.3 | 4.1 | 0.5 | 48.8 | 11.2 | 76.2 | 25.2 |
| Queue Length 50th (ft) | 142 | 176 | 107 | 115 | 1 | 47 | 0 | 122 | 66 |
| Queue Length 95th (ft) | #244 | 228 | m151 | 27 | m0 | 88 | 40 | 192 | 163 |
| Internal Link Dist (ft) | | 532 | | 327 | | 464 | | 1400 | |
| Turn Bay Length (ft) | 175 | | 150 | | 130 | | 30 | | 50 |
| Base Capacity (vph) | 254 | 2254 | 255 | 2175 | 921 | 249 | 373 | 261 | 486 |
| Starvation Cap Reductn | 0 | 0 | 0 | 304 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.73 | 0.36 | 0.51 | 0.75 | 0.16 | 0.27 | 0.20 | 0.62 | 0.64 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.
m Volume for 95th percentile queue is metered by upstream signal.

| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | |
| Traffic Volume (vph) | 179 | 735 | 125 | 1352 | 140 | 36 | 29 | 71 | 120 | 37 | 300 |
| Future Volume (vph) | 179 | 735 | 125 | 1352 | 140 | 36 | 29 | 71 | 120 | 37 | 300 |
| Turn Type | Prot | NA | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 1 | 6 | 5 | 2 | | | 4 | | | 8 | |
| Permitted Phases | | | | | 2 | 4 | | 4 | 8 | | 8 |
| Detector Phase | 1 | 6 | 5 | 2 | 2 | 4 | 4 | 4 | 8 | 8 | 8 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 4.0 | 10.0 | 10.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Minimum Split (s) | 8.0 | 27.0 | 8.0 | 27.0 | 27.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 |
| Total Split (s) | 21.0 | 71.0 | 21.0 | 71.0 | 71.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 |
| Total Split (%) | 17.5% | 59.2% | 17.5% | 59.2% | 59.2% | 23.3% | 23.3% | 23.3% | 23.3% | 23.3% | 23.3% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 5.0 | 4.0 | 5.0 | 5.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 15.4 | 76.2 | 12.3 | 73.0 | 73.0 | | 18.5 | 18.5 | | 18.5 | 18.5 |
| Actuated g/C Ratio | 0.13 | 0.64 | 0.10 | 0.61 | 0.61 | | 0.15 | 0.15 | | 0.15 | 0.15 |
| v/c Ratio | 0.81 | 0.35 | 0.70 | 0.64 | 0.16 | | 0.35 | 0.24 | | 0.81 | 0.73 |
| Control Delay | 68.6 | 12.9 | 86.3 | 3.8 | 0.5 | | 48.8 | 11.2 | | 76.2 | 25.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 68.6 | 12.9 | 86.3 | 4.1 | 0.5 | | 48.8 | 11.2 | | 76.2 | 25.2 |
| LOS | E | B | F | A | A | | D | B | | E | C |
| Approach Delay | | 23.4 | | 10.2 | | | 29.2 | | | 42.7 | |
| Approach LOS | | C | | B | | | C | | | D | |

| Intersection Summary | |
|---|---|
| Cycle Length: 120 | |
| Actuated Cycle Length: 120 | |
| Offset: 32 (27%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow | |
| Natural Cycle: 75 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.81 | |
| Intersection Signal Delay: 19.7 | Intersection LOS: B |
| Intersection Capacity Utilization 73.8% | ICU Level of Service D |
| Analysis Period (min) 15 | |

Splits and Phases: 7: Driveway/Kings Village Rd & Mt Hermon Rd





| Lane Group | EBL | EBT | WBL | WBT | WBR | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 67 | 975 | 64 | 1582 | 326 | 13 | 16 | 242 | 83 |
| v/c Ratio | 0.54 | 0.44 | 0.52 | 0.71 | 0.30 | 0.04 | 0.04 | 0.83 | 0.22 |
| Control Delay | 72.7 | 12.2 | 60.2 | 10.9 | 1.7 | 33.5 | 0.2 | 66.9 | 15.7 |
| Queue Delay | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 72.7 | 12.4 | 60.2 | 10.9 | 1.7 | 33.5 | 0.2 | 66.9 | 15.7 |
| Queue Length 50th (ft) | 53 | 116 | 49 | 216 | 7 | 8 | 0 | 180 | 17 |
| Queue Length 95th (ft) | m102 | 219 | m55 | m247 | m12 | 23 | 0 | 252 | 55 |
| Internal Link Dist (ft) | | 327 | | 893 | | 496 | | 475 | |
| Turn Bay Length (ft) | 80 | | 185 | | | | 30 | | 30 |
| Base Capacity (vph) | 240 | 2202 | 240 | 2222 | 1070 | 493 | 514 | 408 | 511 |
| Starvation Cap Reductn | 0 | 383 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.28 | 0.54 | 0.27 | 0.71 | 0.30 | 0.03 | 0.03 | 0.59 | 0.16 |

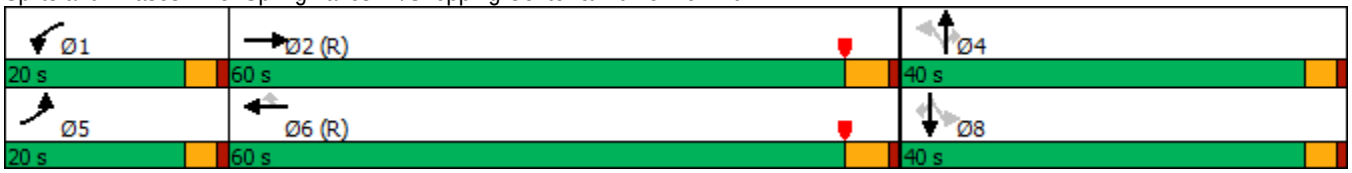
Intersection Summary

m Volume for 95th percentile queue is metered by upstream signal.

| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | |
| Traffic Volume (vph) | 64 | 927 | 61 | 1519 | 313 | 7 | 6 | 15 | 227 | 6 | 80 |
| Future Volume (vph) | 64 | 927 | 61 | 1519 | 313 | 7 | 6 | 15 | 227 | 6 | 80 |
| Turn Type | Prot | NA | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 5 | 2 | 1 | 6 | | | 4 | | | 8 | |
| Permitted Phases | | | | | 6 | 4 | | 4 | 8 | | 8 |
| Detector Phase | 5 | 2 | 1 | 6 | 6 | 4 | 4 | 4 | 8 | 8 | 8 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 4.0 | 10.0 | 10.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Minimum Split (s) | 8.0 | 30.0 | 8.0 | 30.0 | 30.0 | 35.0 | 35.0 | 35.0 | 26.0 | 26.0 | 26.0 |
| Total Split (s) | 20.0 | 60.0 | 20.0 | 60.0 | 60.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| Total Split (%) | 16.7% | 50.0% | 16.7% | 50.0% | 50.0% | 33.3% | 33.3% | 33.3% | 33.3% | 33.3% | 33.3% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 5.0 | 4.0 | 5.0 | 5.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 8.4 | 74.8 | 8.2 | 74.6 | 74.6 | | 25.8 | 25.8 | | 25.8 | 25.8 |
| Actuated g/C Ratio | 0.07 | 0.62 | 0.07 | 0.62 | 0.62 | | 0.22 | 0.22 | | 0.22 | 0.22 |
| v/c Ratio | 0.54 | 0.44 | 0.52 | 0.71 | 0.30 | | 0.04 | 0.04 | | 0.83 | 0.22 |
| Control Delay | 72.7 | 12.2 | 60.2 | 10.9 | 1.7 | | 33.5 | 0.2 | | 66.9 | 15.7 |
| Queue Delay | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 72.7 | 12.4 | 60.2 | 10.9 | 1.7 | | 33.5 | 0.2 | | 66.9 | 15.7 |
| LOS | E | B | E | B | A | | C | A | | E | B |
| Approach Delay | | 16.2 | | 11.0 | | | 15.1 | | | 53.8 | |
| Approach LOS | | B | | B | | | B | | | D | |

| Intersection Summary | |
|---|---|
| Cycle Length: 120 | |
| Actuated Cycle Length: 120 | |
| Offset: 20 (17%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow | |
| Natural Cycle: 90 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.83 | |
| Intersection Signal Delay: 16.8 | Intersection LOS: B |
| Intersection Capacity Utilization 75.9% | ICU Level of Service D |
| Analysis Period (min) 15 | |

Splits and Phases: 8: Spring Lakes Dr/Shopping Center & Mt Hermon Rd





| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 428 | 795 | 185 | 1196 | 364 | 80 | 63 | 84 | 418 | 87 | 629 |
| v/c Ratio | 0.90 | 0.57 | 0.94 | 0.89 | 0.47 | 1.07 | 0.17 | 0.20 | 0.86 | 0.15 | 0.99 |
| Control Delay | 76.3 | 23.3 | 96.6 | 43.3 | 12.4 | 177.7 | 41.8 | 3.1 | 68.0 | 31.9 | 58.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 76.3 | 23.3 | 96.6 | 43.3 | 12.4 | 177.7 | 41.8 | 3.1 | 68.0 | 31.9 | 58.4 |
| Queue Length 50th (ft) | 181 | 145 | 153 | 266 | 26 | ~68 | 41 | 0 | 163 | 49 | 331 |
| Queue Length 95th (ft) | #258 | 238 | m#286 | #583 | 202 | #173 | 82 | 15 | #234 | 91 | #584 |
| Internal Link Dist (ft) | | 893 | | 795 | | | 318 | | | 505 | |
| Turn Bay Length (ft) | 300 | | 275 | | 100 | 190 | | 150 | 220 | | |
| Base Capacity (vph) | 491 | 1404 | 196 | 1337 | 770 | 75 | 375 | 415 | 520 | 570 | 643 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.87 | 0.57 | 0.94 | 0.89 | 0.47 | 1.07 | 0.17 | 0.20 | 0.80 | 0.15 | 0.98 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.

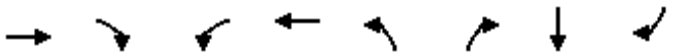
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 415 | 683 | 88 | 179 | 1160 | 353 | 78 | 61 | 81 | 405 | 84 | 610 |
| Future Volume (veh/h) | 415 | 683 | 88 | 179 | 1160 | 353 | 78 | 61 | 81 | 405 | 84 | 610 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.99 | 1.00 | | 1.00 | 1.00 | | 0.98 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1885 | 1870 | 1885 | 1885 | 1885 | 1885 | 1900 | 1900 | 1900 | 1885 | 1900 | 1885 |
| Adj Flow Rate, veh/h | 428 | 704 | 91 | 185 | 1196 | 0 | 80 | 63 | 84 | 418 | 87 | 0 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 1 | 2 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 |
| Cap, veh/h | 473 | 1667 | 215 | 195 | 1790 | | 75 | 150 | 124 | 473 | 328 | |
| Arrive On Green | 0.27 | 1.00 | 1.00 | 0.11 | 0.50 | 0.00 | 0.04 | 0.08 | 0.08 | 0.14 | 0.17 | 0.00 |
| Sat Flow, veh/h | 3483 | 3162 | 408 | 1795 | 3582 | 1598 | 1810 | 1900 | 1580 | 3483 | 1900 | 1598 |
| Grp Volume(v), veh/h | 428 | 395 | 400 | 185 | 1196 | 0 | 80 | 63 | 84 | 418 | 87 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1742 | 1777 | 1794 | 1795 | 1791 | 1598 | 1810 | 1900 | 1580 | 1742 | 1900 | 1598 |
| Q Serve(g_s), s | 14.2 | 0.0 | 0.0 | 12.3 | 30.1 | 0.0 | 5.0 | 3.8 | 6.2 | 14.1 | 4.8 | 0.0 |
| Cycle Q Clear(g_c), s | 14.2 | 0.0 | 0.0 | 12.3 | 30.1 | 0.0 | 5.0 | 3.8 | 6.2 | 14.1 | 4.8 | 0.0 |
| Prop In Lane | 1.00 | | 0.23 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 473 | 937 | 946 | 195 | 1790 | | 75 | 150 | 124 | 473 | 328 | |
| V/C Ratio(X) | 0.90 | 0.42 | 0.42 | 0.95 | 0.67 | | 1.06 | 0.42 | 0.68 | 0.88 | 0.26 | |
| Avail Cap(c_a), veh/h | 493 | 937 | 946 | 195 | 1790 | | 75 | 364 | 303 | 522 | 570 | |
| HCM Platoon Ratio | 2.00 | 2.00 | 2.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.90 | 0.90 | 0.90 | 0.68 | 0.68 | 0.00 | 1.00 | 1.00 | 1.00 | 0.88 | 0.88 | 0.00 |
| Uniform Delay (d), s/veh | 42.9 | 0.0 | 0.0 | 53.2 | 22.6 | 0.0 | 57.5 | 52.7 | 53.8 | 50.9 | 43.0 | 0.0 |
| Incr Delay (d2), s/veh | 17.4 | 1.3 | 1.2 | 39.7 | 1.4 | 0.0 | 121.4 | 0.7 | 2.4 | 13.0 | 0.1 | 0.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 6.3 | 0.3 | 0.3 | 7.6 | 12.5 | 0.0 | 4.8 | 1.8 | 2.5 | 7.0 | 2.2 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 60.4 | 1.3 | 1.2 | 92.9 | 23.9 | 0.0 | 178.9 | 53.4 | 56.1 | 63.9 | 43.2 | 0.0 |
| LnGrp LOS | E | A | A | F | C | | F | D | E | E | D | |
| Approach Vol, veh/h | | 1223 | | | 1381 | A | | 227 | | | 505 | A |
| Approach Delay, s/veh | | 21.9 | | | 33.2 | | | 98.6 | | | 60.3 | |
| Approach LOS | | C | | | C | | | F | | | E | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 17.0 | 68.3 | 20.3 | 14.5 | 20.3 | 65.0 | 9.0 | 25.7 |
| Change Period (Y+Rc), s | 4.0 | 5.0 | 4.0 | 5.0 | 4.0 | 5.0 | 4.0 | 5.0 |
| Max Green Setting (Gmax), s | 13.0 | 48.0 | 18.0 | 23.0 | 17.0 | 44.0 | 5.0 | 36.0 |
| Max Q Clear Time (g_c+I1), s | 14.3 | 2.0 | 16.1 | 8.2 | 16.2 | 32.1 | 7.0 | 6.8 |
| Green Ext Time (p_c), s | 0.0 | 5.7 | 0.1 | 0.2 | 0.1 | 6.4 | 0.0 | 0.3 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 37.6 |
| HCM 6th LOS | D |

**Notes**

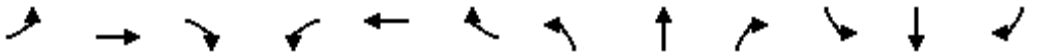
Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.



| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 1176 | 111 | 60 | 1133 | 99 | 78 | 41 | 525 |
| v/c Ratio | 0.58 | 0.12 | 0.65 | 0.86 | 0.22 | 0.26 | 0.21 | 0.87 |
| Control Delay | 16.3 | 5.7 | 83.8 | 38.4 | 48.0 | 6.9 | 46.6 | 40.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 16.3 | 5.7 | 83.8 | 38.4 | 48.0 | 6.9 | 46.6 | 40.4 |
| Queue Length 50th (ft) | 237 | 10 | 39 | 355 | 30 | 0 | 26 | 245 |
| Queue Length 95th (ft) | 457 | 48 | #143 | 567 | 71 | 27 | 61 | 438 |
| Internal Link Dist (ft) | 1456 | | | 401 | | | 369 | |
| Turn Bay Length (ft) | | 100 | 190 | | 130 | 180 | | 350 |
| Base Capacity (vph) | 2957 | 1320 | 93 | 1853 | 630 | 374 | 494 | 841 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.40 | 0.08 | 0.65 | 0.61 | 0.16 | 0.21 | 0.08 | 0.62 |

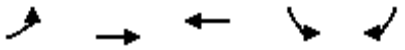
Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



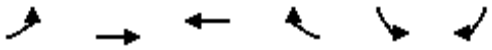
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 0 | 1117 | 105 | 57 | 1076 | 0 | 94 | 0 | 74 | 13 | 26 | 499 |
| Future Volume (vph) | 0 | 1117 | 105 | 57 | 1076 | 0 | 94 | 0 | 74 | 13 | 26 | 499 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 5.3 | 5.3 | 4.2 | 5.3 | | 4.6 | | 4.6 | | 4.2 | 3.7 |
| Lane Util. Factor | | 0.95 | 1.00 | 1.00 | 0.95 | | 0.97 | | 1.00 | | 1.00 | 1.00 |
| Frpb, ped/bikes | | 1.00 | 0.98 | 1.00 | 1.00 | | 1.00 | | 1.00 | | 1.00 | 1.00 |
| Flpb, ped/bikes | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | | 1.00 | | 1.00 | 1.00 |
| Frt | | 1.00 | 0.85 | 1.00 | 1.00 | | 1.00 | | 0.85 | | 1.00 | 0.85 |
| Flt Protected | | 1.00 | 1.00 | 0.95 | 1.00 | | 0.95 | | 1.00 | | 0.98 | 1.00 |
| Satd. Flow (prot) | | 3539 | 1565 | 1770 | 3574 | | 3502 | | 1599 | | 1818 | 1578 |
| Flt Permitted | | 1.00 | 1.00 | 0.95 | 1.00 | | 0.95 | | 1.00 | | 0.98 | 1.00 |
| Satd. Flow (perm) | | 3539 | 1565 | 1770 | 3574 | | 3502 | | 1599 | | 1818 | 1578 |
| Peak-hour factor, PHF | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.91 | 0.95 | 0.95 |
| Adj. Flow (vph) | 0 | 1176 | 111 | 60 | 1133 | 0 | 99 | 0 | 78 | 14 | 27 | 525 |
| RTOR Reduction (vph) | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 68 | 0 | 0 | 66 |
| Lane Group Flow (vph) | 0 | 1176 | 79 | 60 | 1133 | 0 | 99 | 0 | 10 | 0 | 41 | 459 |
| Confl. Peds. (#/hr) | | | | | | | 2 | | | | | 2 |
| Confl. Bikes (#/hr) | | | 2 | | | 1 | | | | | | |
| Heavy Vehicles (%) | 0% | 2% | 1% | 2% | 1% | 0% | 0% | 0% | 1% | 8% | 0% | 2% |
| Turn Type | | NA | Perm | Prot | NA | | Prot | | Perm | Perm | NA | custom |
| Protected Phases | | 6 | | 5 | 2 | | 7 | | | | 8 | 1 |
| Permitted Phases | | | 6 | | | | | | 7 | 8 | | 8 |
| Actuated Green, G (s) | | 57.3 | 57.3 | 5.3 | 36.7 | | 12.7 | | 12.7 | | 7.5 | 33.9 |
| Effective Green, g (s) | | 57.3 | 57.3 | 5.3 | 36.7 | | 12.7 | | 12.7 | | 7.5 | 33.9 |
| Actuated g/C Ratio | | 0.57 | 0.57 | 0.05 | 0.36 | | 0.13 | | 0.13 | | 0.07 | 0.34 |
| Clearance Time (s) | | 5.3 | 5.3 | 4.2 | 5.3 | | 4.6 | | 4.6 | | 4.2 | 3.7 |
| Vehicle Extension (s) | | 3.5 | 3.5 | 3.0 | 3.5 | | 3.0 | | 3.0 | | 3.0 | 1.0 |
| Lane Grp Cap (vph) | | 2005 | 886 | 92 | 1297 | | 439 | | 200 | | 134 | 529 |
| v/s Ratio Prot | | 0.33 | | 0.03 | c0.32 | | c0.03 | | | | | c0.23 |
| v/s Ratio Perm | | | 0.05 | | | | | | 0.01 | | 0.02 | 0.06 |
| v/c Ratio | | 0.59 | 0.09 | 0.65 | 0.87 | | 0.23 | | 0.05 | | 0.31 | 0.87 |
| Uniform Delay, d1 | | 14.2 | 10.0 | 47.0 | 30.0 | | 39.8 | | 38.9 | | 44.3 | 31.5 |
| Progression Factor | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | | 1.00 | | 1.00 | 1.00 |
| Incremental Delay, d2 | | 0.5 | 0.1 | 15.4 | 6.9 | | 0.3 | | 0.1 | | 1.3 | 13.6 |
| Delay (s) | | 14.7 | 10.0 | 62.4 | 37.0 | | 40.0 | | 39.0 | | 45.6 | 45.1 |
| Level of Service | | B | B | E | D | | D | | D | | D | D |
| Approach Delay (s) | | 14.3 | | | 38.3 | | | 39.6 | | | 45.2 | |
| Approach LOS | | B | | | D | | | D | | | D | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 30.0 | HCM 2000 Level of Service | C |
| HCM 2000 Volume to Capacity ratio | 0.78 | | |
| Actuated Cycle Length (s) | 101.1 | Sum of lost time (s) | 18.3 |
| Intersection Capacity Utilization | 75.3% | ICU Level of Service | D |
| Analysis Period (min) | 15 | | |
| c Critical Lane Group | | | |



| Lane Group | EBL | EBT | WBT | SBL | SBR |
|---|---|---|---|---|---|
| Lane Group Flow (vph) | 89 | 757 | 376 | 184 | 38 |
| v/c Ratio | 0.33 | 0.69 | 0.52 | 0.47 | 0.10 |
| Control Delay | 29.2 | 12.7 | 18.2 | 26.2 | 10.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 29.2 | 12.7 | 18.2 | 26.2 | 10.5 |
| Queue Length 50th (ft) | 28 | 157 | 98 | 55 | 1 |
| Queue Length 95th (ft) | 81 | 338 | 216 | 135 | 24 |
| Internal Link Dist (ft) | | 358 | 271 | 2509 | |
| Turn Bay Length (ft) | 295 | | | | 70 |
| Base Capacity (vph) | 912 | 1841 | 1229 | 1216 | 1066 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.10 | 0.41 | 0.31 | 0.15 | 0.04 |

Intersection Summary



| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Volume (veh/h) | 83 | 704 | 234 | 115 | 171 | 35 |
| Future Volume (veh/h) | 83 | 704 | 234 | 115 | 171 | 35 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 89 | 757 | 252 | 124 | 184 | 38 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 137 | 1105 | 468 | 230 | 273 | 243 |
| Arrive On Green | 0.08 | 0.59 | 0.40 | 0.40 | 0.15 | 0.15 |
| Sat Flow, veh/h | 1781 | 1870 | 1183 | 582 | 1781 | 1585 |
| Grp Volume(v), veh/h | 89 | 757 | 0 | 376 | 184 | 38 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 0 | 1766 | 1781 | 1585 |
| Q Serve(g_s), s | 2.0 | 11.7 | 0.0 | 6.9 | 4.1 | 0.9 |
| Cycle Q Clear(g_c), s | 2.0 | 11.7 | 0.0 | 6.9 | 4.1 | 0.9 |
| Prop In Lane | 1.00 | | | 0.33 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 137 | 1105 | 0 | 698 | 273 | 243 |
| V/C Ratio(X) | 0.65 | 0.69 | 0.00 | 0.54 | 0.67 | 0.16 |
| Avail Cap(c_a), veh/h | 1267 | 1774 | 0 | 1674 | 1689 | 1503 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 18.9 | 5.9 | 0.0 | 9.8 | 16.9 | 15.5 |
| Incr Delay (d2), s/veh | 5.1 | 1.6 | 0.0 | 1.4 | 3.5 | 0.4 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.9 | 2.9 | 0.0 | 2.3 | 1.7 | 0.8 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d),s/veh | 24.1 | 7.6 | 0.0 | 11.2 | 20.3 | 15.8 |
| LnGrp LOS | C | A | A | B | C | B |
| Approach Vol, veh/h | | 846 | 376 | | 222 | |
| Approach Delay, s/veh | | 9.3 | 11.2 | | 19.6 | |
| Approach LOS | | A | B | | B | |

| Timer - Assigned Phs | | 2 | | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | | 30.4 | | 11.8 | 8.2 | 22.2 |
| Change Period (Y+Rc), s | | 5.5 | | 5.3 | 5.0 | 5.5 |
| Max Green Setting (Gmax), s | | 40.0 | | 40.0 | 30.0 | 40.0 |
| Max Q Clear Time (g_c+I1), s | | 13.7 | | 6.1 | 4.0 | 8.9 |
| Green Ext Time (p_c), s | | 11.2 | | 0.9 | 0.2 | 5.0 |

| Intersection Summary | | |
|---|---|---|
| HCM 6th Ctrl Delay | | 11.4 |
| HCM 6th LOS | | B |

| Intersection | |
|---|---|
| Int Delay, s/veh | 1.3 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 31 | 9 | 165 | 35 | 8 | 145 |
| Future Vol, veh/h | 31 | 9 | 165 | 35 | 8 | 145 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 9 | 9 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 84 | 84 | 84 | 84 | 84 | 84 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 37 | 11 | 196 | 42 | 10 | 173 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 419 | 226 | 0 | 0 | 247 | 0 |
| Stage 1 | 226 | - | - | - | - | - |
| Stage 2 | 193 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 591 | 813 | - | - | 1319 | - |
| Stage 1 | 812 | - | - | - | - | - |
| Stage 2 | 840 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 582 | 807 | - | - | 1309 | - |
| Mov Cap-2 Maneuver | 582 | - | - | - | - | - |
| Stage 1 | 806 | - | - | - | - | - |
| Stage 2 | 833 | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s | 11.3 | 0 | 0.4 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | 621 | 1309 | - |
| HCM Lane V/C Ratio | - | - | 0.077 | 0.007 | - |
| HCM Control Delay (s) | - | - | 11.3 | 7.8 | 0 |
| HCM Lane LOS | - | - | B | A | A |
| HCM 95th %tile Q(veh) | - | - | 0.2 | 0 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.7 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 6 | 14 | 172 | 2 | 5 | 147 |
| Future Vol, veh/h | 6 | 14 | 172 | 2 | 5 | 147 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 9 | 9 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 84 | 84 | 84 | 84 | 84 | 84 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 7 | 17 | 205 | 2 | 6 | 175 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 402 | 215 | 0 | 0 | 216 | 0 |
| Stage 1 | 215 | - | - | - | - | - |
| Stage 2 | 187 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 604 | 825 | - | - | 1354 | - |
| Stage 1 | 821 | - | - | - | - | - |
| Stage 2 | 845 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 597 | 819 | - | - | 1344 | - |
| Mov Cap-2 Maneuver | 597 | - | - | - | - | - |
| Stage 1 | 815 | - | - | - | - | - |
| Stage 2 | 841 | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s | 10 | 0 | 0.3 |
| HCM LOS | B | | |

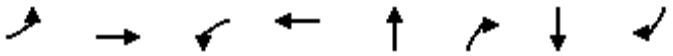
| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | 737 | 1344 | - |
| HCM Lane V/C Ratio | - | - | 0.032 | 0.004 | - |
| HCM Control Delay (s) | - | - | 10 | 7.7 | 0 |
| HCM Lane LOS | - | - | B | A | A |
| HCM 95th %tile Q(veh) | - | - | 0.1 | 0 | - |

| Lane Group | EBL | EBT | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | |
| Traffic Volume (vph) | 4 | 975 | 145 | 552 | 29 | 6 | 204 | 98 | 19 | 5 |
| Future Volume (vph) | 4 | 975 | 145 | 552 | 29 | 6 | 204 | 98 | 19 | 5 |
| Turn Type | Prot | NA | Prot | NA | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 5 | 2 | 1 | 6 | | 8 | | | 4 | |
| Permitted Phases | | | | | 8 | | 8 | 4 | | 4 |
| Detector Phase | 5 | 2 | 1 | 6 | 8 | 8 | 8 | 4 | 4 | 4 |
| Switch Phase | | | | | | | | | | |
| Minimum Initial (s) | 6.0 | 10.0 | 6.0 | 10.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| Minimum Split (s) | 20.0 | 30.0 | 20.0 | 28.0 | 29.0 | 29.0 | 29.0 | 29.0 | 29.0 | 29.0 |
| Total Split (s) | 23.0 | 59.0 | 25.0 | 61.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| Total Split (%) | 20.2% | 51.8% | 21.9% | 53.5% | 26.3% | 26.3% | 26.3% | 26.3% | 26.3% | 26.3% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | -1.0 | 0.0 | -1.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | Max | C-Max | None | C-Max | Max | Max | Max | Max | Max | Max |
| Act Effct Green (s) | 19.0 | 61.3 | 14.7 | 57.0 | | 26.0 | 26.0 | | 26.0 | 26.0 |
| Actuated g/C Ratio | 0.17 | 0.54 | 0.13 | 0.50 | | 0.23 | 0.23 | | 0.23 | 0.23 |
| v/c Ratio | 0.01 | 0.62 | 0.71 | 0.43 | | 0.12 | 0.42 | | 0.41 | 0.01 |
| Control Delay | 40.0 | 20.6 | 60.0 | 19.4 | | 36.3 | 7.3 | | 42.2 | 0.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 40.0 | 20.6 | 60.0 | 19.4 | | 36.3 | 7.3 | | 42.2 | 0.0 |
| LOS | D | C | E | B | | D | A | | D | A |
| Approach Delay | | 20.7 | | 27.3 | | 11.6 | | | 40.4 | |
| Approach LOS | | C | | C | | B | | | D | |

| Intersection Summary | |
|---|---|
| Cycle Length: 114 | |
| Actuated Cycle Length: 114 | |
| Offset: 32 (28%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow | |
| Natural Cycle: 80 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.71 | |
| Intersection Signal Delay: 23.1 | Intersection LOS: C |
| Intersection Capacity Utilization 83.2% | ICU Level of Service E |
| Analysis Period (min) 15 | |

Splits and Phases: 4: Lockewood Ln/Skypark Dr & Mt. Hermon Rd





| Lane Group | EBL | EBT | WBL | WBT | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 4 | 1145 | 163 | 674 | 40 | 229 | 131 | 6 |
| v/c Ratio | 0.01 | 0.62 | 0.71 | 0.43 | 0.12 | 0.42 | 0.41 | 0.01 |
| Control Delay | 40.0 | 20.6 | 60.0 | 19.4 | 36.3 | 7.3 | 42.2 | 0.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 40.0 | 20.6 | 60.0 | 19.4 | 36.3 | 7.3 | 42.2 | 0.0 |
| Queue Length 50th (ft) | 2 | 291 | 125 | 104 | 23 | 0 | 82 | 0 |
| Queue Length 95th (ft) | 12 | 397 | 195 | 190 | 53 | 60 | 142 | 0 |
| Internal Link Dist (ft) | | 964 | | 411 | 1568 | | 382 | |
| Turn Bay Length (ft) | 170 | | 160 | | | 60 | | 130 |
| Base Capacity (vph) | 300 | 1859 | 329 | 1565 | 327 | 541 | 317 | 405 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.01 | 0.62 | 0.50 | 0.43 | 0.12 | 0.42 | 0.41 | 0.01 |

Intersection Summary

| Intersection | |
|---|---|
| Int Delay, s/veh | 1.7 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 1252 | 25 | 71 | 744 | 0 | 131 |
| Future Vol, veh/h | 1252 | 25 | 71 | 744 | 0 | 131 |
| Conflicting Peds, #/hr | 0 | 6 | 6 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 89 | 89 | 89 | 89 | 89 | 89 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1407 | 28 | 80 | 836 | 0 | 147 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | 1441 | 0 | - | 724 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | 4.14 | - | - | 6.94 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | 2.22 | - | - | 3.32 |
| Pot Cap-1 Maneuver | - | - | 467 | - | 0 | 368 |
| Stage 1 | - | - | - | - | 0 | - |
| Stage 2 | - | - | - | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | 465 | - | - | 366 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

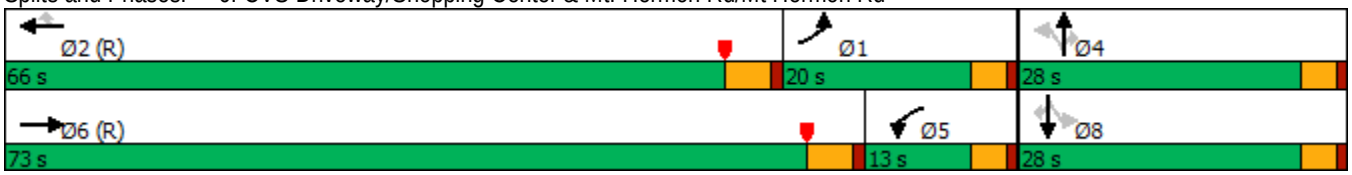
| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s | 0 | 1.2 | 21.3 |
| HCM LOS | | | C |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | 366 | - | - | 465 | - |
| HCM Lane V/C Ratio | 0.402 | - | - | 0.172 | - |
| HCM Control Delay (s) | 21.3 | - | - | 14.3 | - |
| HCM Lane LOS | C | - | - | B | - |
| HCM 95th %tile Q(veh) | 1.9 | - | - | 0.6 | - |

| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | |
| Traffic Volume (vph) | 55 | 1242 | 38 | 716 | 43 | 54 | 7 | 39 | 33 | 6 | 9 |
| Future Volume (vph) | 55 | 1242 | 38 | 716 | 43 | 54 | 7 | 39 | 33 | 6 | 9 |
| Turn Type | Prot | NA | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 1 | 6 | 5 | 2 | | | 4 | | | 8 | |
| Permitted Phases | | | | | 2 | 4 | | 4 | 8 | | 8 |
| Detector Phase | 1 | 6 | 5 | 2 | 2 | 4 | 4 | 4 | 8 | 8 | 8 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 4.0 | 10.0 | 10.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Minimum Split (s) | 20.0 | 27.0 | 8.0 | 27.0 | 27.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 |
| Total Split (s) | 20.0 | 73.0 | 13.0 | 66.0 | 66.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 |
| Total Split (%) | 17.5% | 64.0% | 11.4% | 57.9% | 57.9% | 24.6% | 24.6% | 24.6% | 24.6% | 24.6% | 24.6% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | -1.0 | 0.0 | -1.0 | -1.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lag | Lead | Lag | Lead | Lead | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 12.3 | 89.3 | 6.7 | 83.7 | 83.7 | | 10.3 | 10.3 | | 10.2 | 10.2 |
| Actuated g/C Ratio | 0.11 | 0.78 | 0.06 | 0.73 | 0.73 | | 0.09 | 0.09 | | 0.09 | 0.09 |
| v/c Ratio | 0.33 | 0.54 | 0.43 | 0.34 | 0.05 | | 0.60 | 0.19 | | 0.39 | 0.04 |
| Control Delay | 53.0 | 1.9 | 71.9 | 3.6 | 0.3 | | 69.9 | 1.7 | | 57.5 | 0.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 53.0 | 1.9 | 71.9 | 3.6 | 0.3 | | 69.9 | 1.7 | | 57.5 | 0.3 |
| LOS | D | A | E | A | A | | E | A | | E | A |
| Approach Delay | | 4.0 | | 6.7 | | | 43.3 | | | 46.9 | |
| Approach LOS | | A | | A | | | D | | | D | |

| Intersection Summary | |
|---|---|
| Cycle Length: 114 | |
| Actuated Cycle Length: 114 | |
| Offset: 64 (56%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow | |
| Natural Cycle: 75 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.60 | |
| Intersection Signal Delay: 7.6 | Intersection LOS: A |
| Intersection Capacity Utilization 59.9% | ICU Level of Service B |
| Analysis Period (min) 15 | |

Splits and Phases: 6: CVS Driveway/Shopping Center & Mt. Hermon Rd/Mt Hermon Rd





| Lane Group | EBL | EBT | WBL | WBT | WBR | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 62 | 1463 | 43 | 804 | 48 | 69 | 44 | 44 | 10 |
| v/c Ratio | 0.33 | 0.54 | 0.43 | 0.34 | 0.05 | 0.60 | 0.19 | 0.39 | 0.04 |
| Control Delay | 53.0 | 1.9 | 71.9 | 3.6 | 0.3 | 69.9 | 1.7 | 57.5 | 0.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 53.0 | 1.9 | 71.9 | 3.6 | 0.3 | 69.9 | 1.7 | 57.5 | 0.3 |
| Queue Length 50th (ft) | 47 | 36 | 34 | 86 | 0 | 50 | 0 | 31 | 0 |
| Queue Length 95th (ft) | m79 | 46 | 71 | 63 | 0 | 93 | 0 | 65 | 0 |
| Internal Link Dist (ft) | | 288 | | 439 | | 547 | | 549 | |
| Turn Bay Length (ft) | 70 | | 140 | | 105 | | 40 | | 30 |
| Base Capacity (vph) | 245 | 2726 | 135 | 2387 | 1060 | 269 | 413 | 266 | 416 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.25 | 0.54 | 0.32 | 0.34 | 0.05 | 0.26 | 0.11 | 0.17 | 0.02 |

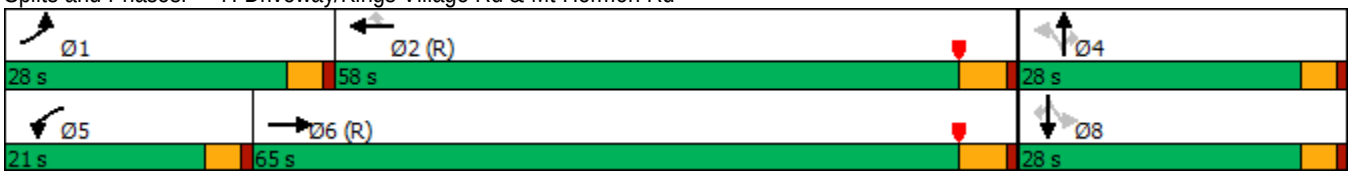
Intersection Summary

m Volume for 95th percentile queue is metered by upstream signal.

| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | |
| Traffic Volume (vph) | 131 | 1236 | 25 | 697 | 99 | 5 | 3 | 19 | 67 | 2 | 87 |
| Future Volume (vph) | 131 | 1236 | 25 | 697 | 99 | 5 | 3 | 19 | 67 | 2 | 87 |
| Turn Type | Prot | NA | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 1 | 6 | 5 | 2 | | | 4 | | | 8 | |
| Permitted Phases | | | | | 2 | 4 | | 4 | 8 | | 8 |
| Detector Phase | 1 | 6 | 5 | 2 | 2 | 4 | 4 | 4 | 8 | 8 | 8 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 4.0 | 10.0 | 10.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Minimum Split (s) | 8.0 | 27.0 | 8.0 | 27.0 | 27.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 |
| Total Split (s) | 28.0 | 65.0 | 21.0 | 58.0 | 58.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 |
| Total Split (%) | 24.6% | 57.0% | 18.4% | 50.9% | 50.9% | 24.6% | 24.6% | 24.6% | 24.6% | 24.6% | 24.6% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | -1.0 | 0.0 | -1.0 | -1.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 13.1 | 87.3 | 5.7 | 76.6 | 76.6 | | 12.3 | 12.3 | | 12.3 | 12.3 |
| Actuated g/C Ratio | 0.11 | 0.77 | 0.05 | 0.67 | 0.67 | | 0.11 | 0.11 | | 0.11 | 0.11 |
| v/c Ratio | 0.70 | 0.49 | 0.29 | 0.32 | 0.10 | | 0.05 | 0.08 | | 0.58 | 0.38 |
| Control Delay | 56.9 | 12.0 | 62.4 | 3.5 | 0.3 | | 41.9 | 0.6 | | 64.7 | 12.2 |
| Queue Delay | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 56.9 | 12.1 | 62.4 | 3.6 | 0.3 | | 41.9 | 0.6 | | 64.7 | 12.2 |
| LOS | E | B | E | A | A | | D | A | | E | B |
| Approach Delay | | 16.3 | | 5.0 | | | 12.4 | | | 35.5 | |
| Approach LOS | | B | | A | | | B | | | D | |

| Intersection Summary | |
|---|---|
| Cycle Length: 114 | |
| Actuated Cycle Length: 114 | |
| Offset: 28 (25%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow | |
| Natural Cycle: 65 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.70 | |
| Intersection Signal Delay: 13.6 | Intersection LOS: B |
| Intersection Capacity Utilization 59.8% | ICU Level of Service B |
| Analysis Period (min) 15 | |

Splits and Phases: 7: Driveway/Kings Village Rd & Mt Hermon Rd





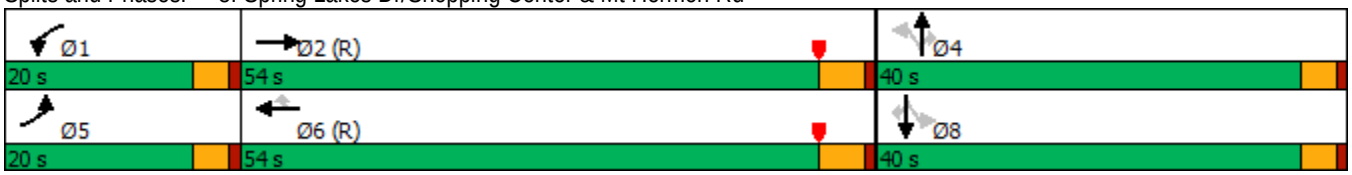
| Lane Group | EBL | EBT | WBL | WBT | WBR | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 138 | 1322 | 26 | 734 | 104 | 8 | 20 | 73 | 92 |
| v/c Ratio | 0.70 | 0.49 | 0.29 | 0.32 | 0.10 | 0.05 | 0.08 | 0.58 | 0.38 |
| Control Delay | 56.9 | 12.0 | 62.4 | 3.5 | 0.3 | 41.9 | 0.6 | 64.7 | 12.2 |
| Queue Delay | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 56.9 | 12.1 | 62.4 | 3.6 | 0.3 | 41.9 | 0.6 | 64.7 | 12.2 |
| Queue Length 50th (ft) | 99 | 242 | 20 | 33 | 0 | 5 | 0 | 52 | 0 |
| Queue Length 95th (ft) | 163 | 455 | 52 | 31 | 0 | 19 | 0 | 93 | 42 |
| Internal Link Dist (ft) | | 532 | | 327 | | 464 | | 1400 | |
| Turn Bay Length (ft) | 175 | | 150 | | 130 | | 30 | | 50 |
| Base Capacity (vph) | 361 | 2673 | 269 | 2266 | 1001 | 299 | 394 | 244 | 384 |
| Starvation Cap Reductn | 0 | 0 | 0 | 466 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 245 | 0 | 0 | 0 | 0 | 6 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.38 | 0.54 | 0.10 | 0.41 | 0.10 | 0.03 | 0.05 | 0.30 | 0.24 |

Intersection Summary

| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | |
| Traffic Volume (vph) | 46 | 1265 | 45 | 807 | 188 | 13 | 3 | 21 | 115 | 2 | 29 |
| Future Volume (vph) | 46 | 1265 | 45 | 807 | 188 | 13 | 3 | 21 | 115 | 2 | 29 |
| Turn Type | Prot | NA | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 5 | 2 | 1 | 6 | | | 4 | | | 8 | |
| Permitted Phases | | | | | 6 | 4 | | 4 | 8 | | 8 |
| Detector Phase | 5 | 2 | 1 | 6 | 6 | 4 | 4 | 4 | 8 | 8 | 8 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 4.0 | 10.0 | 10.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Minimum Split (s) | 8.0 | 30.0 | 8.0 | 30.0 | 30.0 | 35.0 | 35.0 | 35.0 | 26.0 | 26.0 | 26.0 |
| Total Split (s) | 20.0 | 54.0 | 20.0 | 54.0 | 54.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| Total Split (%) | 17.5% | 47.4% | 17.5% | 47.4% | 47.4% | 35.1% | 35.1% | 35.1% | 35.1% | 35.1% | 35.1% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | -1.0 | 0.0 | -1.0 | -1.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 7.1 | 79.3 | 7.3 | 79.5 | 79.5 | | 17.0 | 17.0 | | 17.0 | 17.0 |
| Actuated g/C Ratio | 0.06 | 0.70 | 0.06 | 0.70 | 0.70 | | 0.15 | 0.15 | | 0.15 | 0.15 |
| v/c Ratio | 0.45 | 0.57 | 0.46 | 0.37 | 0.18 | | 0.08 | 0.08 | | 0.64 | 0.12 |
| Control Delay | 77.9 | 11.4 | 70.2 | 4.0 | 0.4 | | 37.6 | 0.8 | | 58.2 | 3.8 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 77.9 | 11.4 | 70.2 | 4.0 | 0.4 | | 37.6 | 0.8 | | 58.2 | 3.8 |
| LOS | E | B | E | A | A | | D | A | | E | A |
| Approach Delay | | 13.7 | | 6.2 | | | 16.5 | | | 47.3 | |
| Approach LOS | | B | | A | | | B | | | D | |

| Intersection Summary | |
|---|---|
| Cycle Length: 114 | |
| Actuated Cycle Length: 114 | |
| Offset: 28 (25%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow | |
| Natural Cycle: 80 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.64 | |
| Intersection Signal Delay: 12.6 | Intersection LOS: B |
| Intersection Capacity Utilization 61.2% | ICU Level of Service B |
| Analysis Period (min) 15 | |

Splits and Phases: 8: Spring Lakes Dr/Shopping Center & Mt Hermon Rd





| Lane Group | EBL | EBT | WBL | WBT | WBR | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 50 | 1382 | 49 | 877 | 204 | 17 | 23 | 127 | 32 |
| v/c Ratio | 0.45 | 0.57 | 0.46 | 0.37 | 0.18 | 0.08 | 0.08 | 0.64 | 0.12 |
| Control Delay | 77.9 | 11.4 | 70.2 | 4.0 | 0.4 | 37.6 | 0.8 | 58.2 | 3.8 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 77.9 | 11.4 | 70.2 | 4.0 | 0.4 | 37.6 | 0.8 | 58.2 | 3.8 |
| Queue Length 50th (ft) | 39 | 254 | 38 | 33 | 0 | 11 | 0 | 90 | 0 |
| Queue Length 95th (ft) | m80 | 575 | m77 | 98 | 3 | 28 | 2 | 132 | 10 |
| Internal Link Dist (ft) | | 327 | | 893 | | 496 | | 475 | |
| Turn Bay Length (ft) | 80 | | 185 | | | | 30 | | 30 |
| Base Capacity (vph) | 253 | 2413 | 234 | 2352 | 1131 | 474 | 539 | 423 | 505 |
| Starvation Cap Reductn | 0 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.20 | 0.58 | 0.21 | 0.37 | 0.18 | 0.04 | 0.04 | 0.30 | 0.06 |

Intersection Summary

m Volume for 95th percentile queue is metered by upstream signal.



| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 503 | 1042 | 118 | 683 | 524 | 73 | 132 | 197 | 489 | 66 | 298 |
| v/c Ratio | 0.83 | 0.64 | 0.69 | 0.51 | 0.56 | 0.57 | 0.62 | 0.56 | 0.82 | 0.16 | 0.53 |
| Control Delay | 60.4 | 23.4 | 78.9 | 24.7 | 4.7 | 67.3 | 59.6 | 12.4 | 57.6 | 35.7 | 7.6 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 60.4 | 23.4 | 78.9 | 24.7 | 4.7 | 67.3 | 59.6 | 12.4 | 57.6 | 35.7 | 7.6 |
| Queue Length 50th (ft) | 192 | 155 | 93 | 129 | 1 | 53 | 95 | 0 | 178 | 40 | 0 |
| Queue Length 95th (ft) | 259 | 389 | 154 | 233 | 96 | 99 | 144 | 62 | 234 | 72 | 67 |
| Internal Link Dist (ft) | | 893 | | 795 | | | 318 | | | 505 | |
| Turn Bay Length (ft) | 300 | | 275 | | 100 | 190 | | 150 | 220 | | |
| Base Capacity (vph) | 683 | 1625 | 186 | 1347 | 935 | 179 | 396 | 482 | 669 | 550 | 646 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.74 | 0.64 | 0.63 | 0.51 | 0.56 | 0.41 | 0.33 | 0.41 | 0.73 | 0.12 | 0.46 |

Intersection Summary

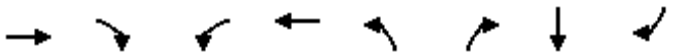
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 463 | 926 | 32 | 109 | 628 | 482 | 67 | 121 | 181 | 450 | 61 | 274 |
| Future Volume (veh/h) | 463 | 926 | 32 | 109 | 628 | 482 | 67 | 121 | 181 | 450 | 61 | 274 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.94 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1885 | 1826 | 1707 | 1841 | 1796 | 1870 | 1811 | 1885 | 1870 | 1885 | 1856 | 1826 |
| Adj Flow Rate, veh/h | 503 | 1007 | 35 | 118 | 683 | 0 | 73 | 132 | 197 | 489 | 66 | 0 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 1 | 5 | 13 | 4 | 7 | 2 | 6 | 1 | 2 | 1 | 3 | 5 |
| Cap, veh/h | 554 | 1565 | 54 | 142 | 1295 | | 93 | 305 | 242 | 554 | 496 | |
| Arrive On Green | 0.32 | 0.92 | 0.90 | 0.16 | 0.76 | 0.00 | 0.05 | 0.16 | 0.16 | 0.16 | 0.27 | 0.00 |
| Sat Flow, veh/h | 3483 | 3420 | 119 | 1753 | 3413 | 1585 | 1725 | 1885 | 1496 | 3483 | 1856 | 1547 |
| Grp Volume(v), veh/h | 503 | 511 | 531 | 118 | 683 | 0 | 73 | 132 | 197 | 489 | 66 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1742 | 1735 | 1804 | 1753 | 1706 | 1585 | 1725 | 1885 | 1496 | 1742 | 1856 | 1547 |
| Q Serve(g_s), s | 15.8 | 6.9 | 7.0 | 7.4 | 9.2 | 0.0 | 4.8 | 7.2 | 14.5 | 15.7 | 3.1 | 0.0 |
| Cycle Q Clear(g_c), s | 15.8 | 6.9 | 7.0 | 7.4 | 9.2 | 0.0 | 4.8 | 7.2 | 14.5 | 15.7 | 3.1 | 0.0 |
| Prop In Lane | 1.00 | | 0.07 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 554 | 794 | 826 | 142 | 1295 | | 93 | 305 | 242 | 554 | 496 | |
| V/C Ratio(X) | 0.91 | 0.64 | 0.64 | 0.83 | 0.53 | | 0.79 | 0.43 | 0.81 | 0.88 | 0.13 | |
| Avail Cap(c_a), veh/h | 672 | 794 | 826 | 169 | 1295 | | 182 | 397 | 315 | 672 | 553 | |
| HCM Platoon Ratio | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.80 | 0.80 | 0.80 | 0.86 | 0.86 | 0.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.95 | 0.00 |
| Uniform Delay (d), s/veh | 38.1 | 2.9 | 3.0 | 47.0 | 9.6 | 0.0 | 53.3 | 43.0 | 46.1 | 46.9 | 31.7 | 0.0 |
| Incr Delay (d2), s/veh | 10.9 | 3.2 | 3.1 | 19.2 | 1.3 | 0.0 | 5.5 | 0.4 | 9.1 | 9.8 | 0.0 | 0.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 6.3 | 1.9 | 1.9 | 3.7 | 2.6 | 0.0 | 2.2 | 3.4 | 5.9 | 7.4 | 1.4 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 49.0 | 6.1 | 6.0 | 66.2 | 10.9 | 0.0 | 58.8 | 43.4 | 55.2 | 56.7 | 31.8 | 0.0 |
| LnGrp LOS | D | A | A | E | B | | E | D | E | E | C | |
| Approach Vol, veh/h | | 1545 | | | 801 | | | 402 | | | 555 | |
| Approach Delay, s/veh | | 20.1 | | | 19.1 | | | 52.0 | | | 53.7 | |
| Approach LOS | | C | | | B | | | D | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.2 | 56.2 | 22.1 | 22.5 | 22.1 | 47.3 | 10.1 | 34.5 |
| Change Period (Y+Rc), s | 4.0 | 5.0 | 4.0 | 4.0 | 4.0 | 5.0 | 4.0 | 4.0 |
| Max Green Setting (Gmax), s | 11.0 | 40.0 | 22.0 | 24.0 | 22.0 | 29.0 | 12.0 | 34.0 |
| Max Q Clear Time (g_c+I1), s | 9.4 | 9.0 | 17.7 | 16.5 | 17.8 | 11.2 | 6.8 | 5.1 |
| Green Ext Time (p_c), s | 0.0 | 7.8 | 0.5 | 0.4 | 0.3 | 4.3 | 0.0 | 0.2 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 29.4 |
| HCM 6th LOS | C |

Notes

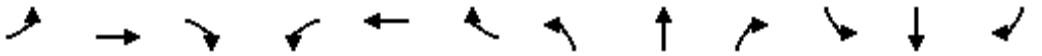
Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.



| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 1714 | 64 | 60 | 1069 | 169 | 179 | 29 | 233 |
| v/c Ratio | 0.93 | 0.07 | 0.56 | 0.63 | 0.31 | 0.45 | 0.13 | 0.72 |
| Control Delay | 31.4 | 3.7 | 65.4 | 19.7 | 38.3 | 10.6 | 36.3 | 37.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 31.4 | 3.7 | 65.4 | 19.7 | 38.3 | 10.6 | 36.3 | 37.2 |
| Queue Length 50th (ft) | 427 | 0 | 34 | 207 | 44 | 0 | 16 | 93 |
| Queue Length 95th (ft) | #918 | 22 | #122 | 407 | 95 | 65 | 40 | 175 |
| Internal Link Dist (ft) | 1450 | | | 401 | | | 369 | |
| Turn Bay Length (ft) | | 100 | 190 | | 130 | 180 | | 350 |
| Base Capacity (vph) | 3249 | 1473 | 108 | 2119 | 740 | 485 | 592 | 878 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.53 | 0.04 | 0.56 | 0.50 | 0.23 | 0.37 | 0.05 | 0.27 |

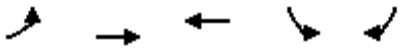
Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 0 | 1560 | 58 | 55 | 973 | 0 | 154 | 0 | 163 | 5 | 22 | 212 |
| Future Volume (vph) | 0 | 1560 | 58 | 55 | 973 | 0 | 154 | 0 | 163 | 5 | 22 | 212 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 4.0 | 4.0 | 4.0 | 4.0 | | 4.0 | | 4.0 | | 4.0 | 4.0 |
| Lane Util. Factor | | 0.95 | 1.00 | 1.00 | 0.95 | | 0.97 | | 1.00 | | 1.00 | 1.00 |
| Frpb, ped/bikes | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | | 1.00 | | 1.00 | 0.99 |
| Flpb, ped/bikes | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | | 1.00 | | 1.00 | 1.00 |
| Frt | | 1.00 | 0.85 | 1.00 | 1.00 | | 1.00 | | 0.85 | | 1.00 | 0.85 |
| Flt Protected | | 1.00 | 1.00 | 0.95 | 1.00 | | 0.95 | | 1.00 | | 0.99 | 1.00 |
| Satd. Flow (prot) | | 3505 | 1583 | 1719 | 3471 | | 3467 | | 1615 | | 1884 | 1501 |
| Flt Permitted | | 1.00 | 1.00 | 0.95 | 1.00 | | 0.95 | | 1.00 | | 0.99 | 1.00 |
| Satd. Flow (perm) | | 3505 | 1583 | 1719 | 3471 | | 3467 | | 1615 | | 1884 | 1501 |
| Peak-hour factor, PHF | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |
| Adj. Flow (vph) | 0 | 1714 | 64 | 60 | 1069 | 0 | 169 | 0 | 179 | 5 | 24 | 233 |
| RTOR Reduction (vph) | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 152 | 0 | 0 | 44 |
| Lane Group Flow (vph) | 0 | 1714 | 33 | 60 | 1069 | 0 | 169 | 0 | 27 | 0 | 29 | 189 |
| Confl. Peds. (#/hr) | 1 | | | | | 1 | 1 | | | | | 1 |
| Confl. Bikes (#/hr) | | | | | | 1 | | | | | | |
| Heavy Vehicles (%) | 0% | 3% | 2% | 5% | 4% | 0% | 1% | 0% | 0% | 0% | 0% | 7% |
| Turn Type | | NA | Perm | Prot | NA | | Prot | | Perm | Split | NA | custom |
| Protected Phases | | 6 | | 5 | 2 | | 7 | | | 8 | 8 | 1 |
| Permitted Phases | | | 6 | | | | | | 7 | | | 8 |
| Actuated Green, G (s) | | 43.7 | 43.7 | 5.2 | 40.5 | | 12.7 | | 12.7 | | 7.2 | 16.1 |
| Effective Green, g (s) | | 45.0 | 45.0 | 5.4 | 41.8 | | 13.3 | | 13.3 | | 7.4 | 15.5 |
| Actuated g/C Ratio | | 0.52 | 0.52 | 0.06 | 0.48 | | 0.15 | | 0.15 | | 0.08 | 0.18 |
| Clearance Time (s) | | 5.3 | 5.3 | 4.2 | 5.3 | | 4.6 | | 4.6 | | 4.2 | 3.7 |
| Vehicle Extension (s) | | 3.5 | 3.5 | 3.0 | 3.5 | | 3.0 | | 3.0 | | 3.0 | 1.0 |
| Lane Grp Cap (vph) | | 1810 | 817 | 106 | 1665 | | 529 | | 246 | | 160 | 267 |
| v/s Ratio Prot | | c0.49 | | 0.03 | 0.31 | | c0.05 | | | | 0.02 | c0.07 |
| v/s Ratio Perm | | | 0.02 | | | | | | 0.02 | | | 0.06 |
| v/c Ratio | | 0.95 | 0.04 | 0.57 | 0.64 | | 0.32 | | 0.11 | | 0.18 | 0.71 |
| Uniform Delay, d1 | | 19.9 | 10.4 | 39.7 | 17.0 | | 32.9 | | 31.8 | | 37.0 | 33.7 |
| Progression Factor | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | | 1.00 | | 1.00 | 1.00 |
| Incremental Delay, d2 | | 11.1 | 0.0 | 6.8 | 0.9 | | 0.4 | | 0.2 | | 0.5 | 6.8 |
| Delay (s) | | 31.0 | 10.4 | 46.5 | 17.9 | | 33.2 | | 32.0 | | 37.6 | 40.4 |
| Level of Service | | C | B | D | B | | C | | C | | D | D |
| Approach Delay (s) | | 30.3 | | | 19.4 | | | 32.6 | | | 40.1 | |
| Approach LOS | | C | | | B | | | C | | | D | |

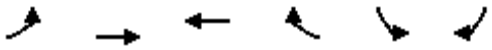
| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 27.8 | HCM 2000 Level of Service | C |
| HCM 2000 Volume to Capacity ratio | 0.80 | | |
| Actuated Cycle Length (s) | 87.1 | Sum of lost time (s) | 16.0 |
| Intersection Capacity Utilization | 67.3% | ICU Level of Service | C |
| Analysis Period (min) | 15 | | |
| c Critical Lane Group | | | |



| Lane Group | EBL | EBT | WBT | SBL | SBR |
|---|---|---|---|---|---|
| Lane Group Flow (vph) | 113 | 567 | 723 | 99 | 107 |
| v/c Ratio | 0.48 | 0.43 | 0.76 | 0.39 | 0.35 |
| Control Delay | 39.4 | 6.3 | 23.5 | 34.9 | 9.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 39.4 | 6.3 | 23.5 | 34.9 | 9.9 |
| Queue Length 50th (ft) | 50 | 85 | 248 | 44 | 0 |
| Queue Length 95th (ft) | 106 | 197 | #559 | 87 | 37 |
| Internal Link Dist (ft) | | 297 | 114 | 2513 | |
| Turn Bay Length (ft) | 295 | | | | 70 |
| Base Capacity (vph) | 688 | 1775 | 948 | 917 | 823 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.16 | 0.32 | 0.76 | 0.11 | 0.13 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Volume (veh/h) | 98 | 493 | 544 | 85 | 86 | 93 |
| Future Volume (veh/h) | 98 | 493 | 544 | 85 | 86 | 93 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 0.98 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 113 | 567 | 625 | 98 | 99 | 107 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 151 | 1299 | 817 | 128 | 197 | 175 |
| Arrive On Green | 0.08 | 0.69 | 0.52 | 0.52 | 0.11 | 0.11 |
| Sat Flow, veh/h | 1781 | 1870 | 1573 | 247 | 1781 | 1585 |
| Grp Volume(v), veh/h | 113 | 567 | 0 | 723 | 99 | 107 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 0 | 1820 | 1781 | 1585 |
| Q Serve(g_s), s | 3.4 | 7.4 | 0.0 | 17.6 | 2.9 | 3.6 |
| Cycle Q Clear(g_c), s | 3.4 | 7.4 | 0.0 | 17.6 | 2.9 | 3.6 |
| Prop In Lane | 1.00 | | | 0.14 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 151 | 1299 | 0 | 945 | 197 | 175 |
| V/C Ratio(X) | 0.75 | 0.44 | 0.00 | 0.76 | 0.50 | 0.61 |
| Avail Cap(c_a), veh/h | 963 | 1349 | 0 | 1312 | 1285 | 1143 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 24.8 | 3.7 | 0.0 | 10.6 | 23.2 | 23.5 |
| Incr Delay (d2), s/veh | 7.1 | 0.5 | 0.0 | 3.1 | 2.4 | 4.1 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.7 | 1.7 | 0.0 | 6.2 | 1.3 | 3.3 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d),s/veh | 31.9 | 4.2 | 0.0 | 13.7 | 25.6 | 27.6 |
| LnGrp LOS | C | A | A | B | C | C |
| Approach Vol, veh/h | | 680 | 723 | | 206 | |
| Approach Delay, s/veh | | 8.8 | 13.7 | | 26.7 | |
| Approach LOS | | A | B | | C | |

| Timer - Assigned Phs | | 2 | | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | | 44.0 | | 11.4 | 9.7 | 34.3 |
| Change Period (Y+Rc), s | | 5.5 | | 5.3 | 5.0 | 5.5 |
| Max Green Setting (Gmax), s | | 40.0 | | 40.0 | 30.0 | 40.0 |
| Max Q Clear Time (g_c+I1), s | | 9.4 | | 5.6 | 5.4 | 19.6 |
| Green Ext Time (p_c), s | | 8.1 | | 0.8 | 0.3 | 9.3 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 13.3 |
| HCM 6th LOS | B |

| Intersection | |
|---|---|
| Int Delay, s/veh | 1.5 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 32 | 17 | 189 | 16 | 13 | 166 |
| Future Vol, veh/h | 32 | 17 | 189 | 16 | 13 | 166 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 19 | 19 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 93 | 93 | 93 | 93 | 93 | 93 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 34 | 18 | 203 | 17 | 14 | 178 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 437 | 231 | 0 | 0 | 239 | 0 |
| Stage 1 | 231 | - | - | - | - | - |
| Stage 2 | 206 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 577 | 808 | - | - | 1328 | - |
| Stage 1 | 807 | - | - | - | - | - |
| Stage 2 | 829 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 561 | 795 | - | - | 1307 | - |
| Mov Cap-2 Maneuver | 561 | - | - | - | - | - |
| Stage 1 | 794 | - | - | - | - | - |
| Stage 2 | 819 | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s | 11.3 | 0 | 0.6 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | 625 | 1307 | - |
| HCM Lane V/C Ratio | - | - | 0.084 | 0.011 | - |
| HCM Control Delay (s) | - | - | 11.3 | 7.8 | 0 |
| HCM Lane LOS | - | - | B | A | A |
| HCM 95th %tile Q(veh) | - | - | 0.3 | 0 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.6 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 2 | 10 | 199 | 7 | 17 | 177 |
| Future Vol, veh/h | 2 | 10 | 199 | 7 | 17 | 177 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 19 | 19 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 93 | 93 | 93 | 93 | 93 | 93 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 2 | 11 | 214 | 8 | 18 | 190 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 463 | 237 | 0 | 0 | 241 | 0 |
| Stage 1 | 237 | - | - | - | - | - |
| Stage 2 | 226 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 557 | 802 | - | - | 1326 | - |
| Stage 1 | 802 | - | - | - | - | - |
| Stage 2 | 812 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 540 | 789 | - | - | 1305 | - |
| Mov Cap-2 Maneuver | 540 | - | - | - | - | - |
| Stage 1 | 789 | - | - | - | - | - |
| Stage 2 | 800 | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s | 10 | 0 | 0.7 |
| HCM LOS | B | | |

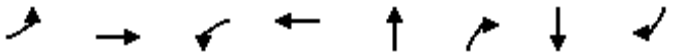
| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | 733 | 1305 | - |
| HCM Lane V/C Ratio | - | - | 0.018 | 0.014 | - |
| HCM Control Delay (s) | - | - | 10 | 7.8 | 0 |
| HCM Lane LOS | - | - | B | A | A |
| HCM 95th %tile Q(veh) | - | - | 0.1 | 0 | - |

| Lane Group | EBL | EBT | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | |
| Traffic Volume (vph) | 10 | 562 | 244 | 1263 | 24 | 13 | 146 | 49 | 14 | 8 |
| Future Volume (vph) | 10 | 562 | 244 | 1263 | 24 | 13 | 146 | 49 | 14 | 8 |
| Turn Type | Prot | NA | Prot | NA | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 5 | 2 | 1 | 6 | | 8 | | | 4 | |
| Permitted Phases | | | | | 8 | | 8 | 4 | | 4 |
| Detector Phase | 5 | 2 | 1 | 6 | 8 | 8 | 8 | 4 | 4 | 4 |
| Switch Phase | | | | | | | | | | |
| Minimum Initial (s) | 6.0 | 10.0 | 6.0 | 10.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| Minimum Split (s) | 10.0 | 30.0 | 20.0 | 28.0 | 29.0 | 29.0 | 29.0 | 29.0 | 29.0 | 29.0 |
| Total Split (s) | 24.0 | 58.0 | 35.0 | 69.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 |
| Total Split (%) | 20.0% | 48.3% | 29.2% | 57.5% | 22.5% | 22.5% | 22.5% | 22.5% | 22.5% | 22.5% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 5.0 | 4.0 | 5.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | Max | Max | Max | Max | Max | Max |
| Act Effct Green (s) | 6.1 | 63.1 | 20.9 | 85.9 | | 23.0 | 23.0 | | 23.0 | 23.0 |
| Actuated g/C Ratio | 0.05 | 0.53 | 0.17 | 0.72 | | 0.19 | 0.19 | | 0.19 | 0.19 |
| v/c Ratio | 0.11 | 0.32 | 0.79 | 0.55 | | 0.12 | 0.35 | | 0.23 | 0.02 |
| Control Delay | 57.0 | 17.5 | 67.9 | 3.1 | | 41.5 | 9.0 | | 43.5 | 0.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 57.0 | 17.5 | 67.9 | 3.1 | | 41.5 | 9.0 | | 43.5 | 0.1 |
| LOS | E | B | E | A | | D | A | | D | A |
| Approach Delay | | 18.1 | | 13.0 | | 15.4 | | | 38.7 | |
| Approach LOS | | B | | B | | B | | | D | |

| Intersection Summary | |
|---|---|
| Cycle Length: 120 | |
| Actuated Cycle Length: 120 | |
| Offset: 73 (61%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow | |
| Natural Cycle: 80 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.79 | |
| Intersection Signal Delay: 15.2 | Intersection LOS: B |
| Intersection Capacity Utilization 74.4% | ICU Level of Service D |
| Analysis Period (min) 15 | |

Splits and Phases: 4: Lockewood Ln/Skypark Dr & Mt. Hermon Rd





| Lane Group | EBL | EBT | WBL | WBT | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 10 | 595 | 249 | 1380 | 37 | 149 | 64 | 8 |
| v/c Ratio | 0.11 | 0.32 | 0.79 | 0.55 | 0.12 | 0.35 | 0.23 | 0.02 |
| Control Delay | 57.0 | 17.5 | 67.9 | 3.1 | 41.5 | 9.0 | 43.5 | 0.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 57.0 | 17.5 | 67.9 | 3.1 | 41.5 | 9.0 | 43.5 | 0.1 |
| Queue Length 50th (ft) | 8 | 132 | 174 | 61 | 24 | 0 | 42 | 0 |
| Queue Length 95th (ft) | 26 | 195 | 231 | 74 | 55 | 56 | 84 | 0 |
| Internal Link Dist (ft) | | 964 | | 397 | 1557 | | 382 | |
| Turn Bay Length (ft) | 170 | | 160 | | | 60 | | 130 |
| Base Capacity (vph) | 300 | 1867 | 466 | 2532 | 301 | 425 | 284 | 373 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.03 | 0.32 | 0.53 | 0.55 | 0.12 | 0.35 | 0.23 | 0.02 |

Intersection Summary

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.8 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 745 | 12 | 100 | 1593 | 0 | 76 |
| Future Vol, veh/h | 745 | 12 | 100 | 1593 | 0 | 76 |
| Conflicting Peds, #/hr | 0 | 7 | 7 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 810 | 13 | 109 | 1732 | 0 | 83 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | 830 | 0 | - | 419 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | 4.14 | - | - | 6.94 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | 2.22 | - | - | 3.32 |
| Pot Cap-1 Maneuver | - | - | 798 | - | 0 | 583 |
| Stage 1 | - | - | - | - | 0 | - |
| Stage 2 | - | - | - | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | 793 | - | - | 580 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

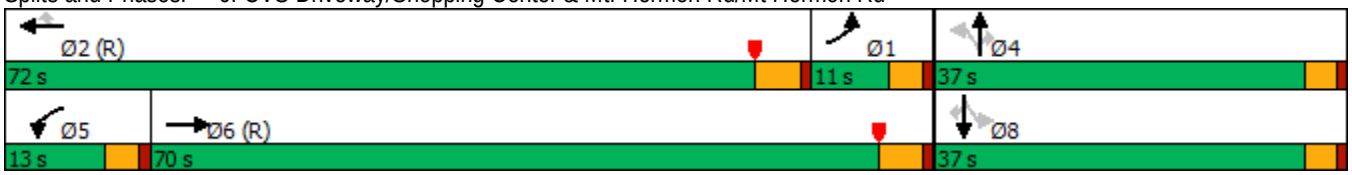
| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s | 0 | 0.6 | 12.2 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | 580 | - | - | 793 | - |
| HCM Lane V/C Ratio | 0.142 | - | - | 0.137 | - |
| HCM Control Delay (s) | 12.2 | - | - | 10.3 | - |
| HCM Lane LOS | B | - | - | B | - |
| HCM 95th %tile Q(veh) | 0.5 | - | - | 0.5 | - |

| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | |
| Traffic Volume (vph) | 52 | 724 | 51 | 1499 | 105 | 146 | 22 | 43 | 98 | 27 | 36 |
| Future Volume (vph) | 52 | 724 | 51 | 1499 | 105 | 146 | 22 | 43 | 98 | 27 | 36 |
| Turn Type | Prot | NA | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 1 | 6 | 5 | 2 | | | 4 | | | 8 | |
| Permitted Phases | | | | | 2 | 4 | | 4 | 8 | | 8 |
| Detector Phase | 1 | 6 | 5 | 2 | 2 | 4 | 4 | 4 | 8 | 8 | 8 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 4.0 | 10.0 | 10.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Minimum Split (s) | 8.0 | 27.0 | 8.0 | 27.0 | 27.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 |
| Total Split (s) | 11.0 | 70.0 | 13.0 | 72.0 | 72.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 |
| Total Split (%) | 9.2% | 58.3% | 10.8% | 60.0% | 60.0% | 30.8% | 30.8% | 30.8% | 30.8% | 30.8% | 30.8% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 5.0 | 4.0 | 5.0 | 5.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lag | Lag | Lead | Lead | Lead | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 6.4 | 79.0 | 7.3 | 79.8 | 79.8 | | 22.4 | 22.4 | | 22.4 | 22.4 |
| Actuated g/C Ratio | 0.05 | 0.66 | 0.06 | 0.66 | 0.66 | | 0.19 | 0.19 | | 0.19 | 0.19 |
| v/c Ratio | 0.55 | 0.34 | 0.48 | 0.64 | 0.10 | | 0.87 | 0.12 | | 0.76 | 0.10 |
| Control Delay | 66.3 | 9.5 | 83.2 | 5.3 | 1.4 | | 84.3 | 0.6 | | 71.4 | 0.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 66.3 | 9.5 | 83.2 | 5.3 | 1.4 | | 84.3 | 0.6 | | 71.4 | 0.5 |
| LOS | E | A | F | A | A | | F | A | | E | A |
| Approach Delay | | 13.0 | | 7.5 | | | 67.2 | | | 55.5 | |
| Approach LOS | | B | | A | | | E | | | E | |

| Intersection Summary | |
|---|---|
| Cycle Length: 120 | |
| Actuated Cycle Length: 120 | |
| Offset: 50 (42%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow | |
| Natural Cycle: 70 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.87 | |
| Intersection Signal Delay: 16.2 | Intersection LOS: B |
| Intersection Capacity Utilization 71.3% | ICU Level of Service C |
| Analysis Period (min) 15 | |

Splits and Phases: 6: CVS Driveway/Shopping Center & Mt. Hermon Rd/Mt Hermon Rd





| Lane Group | EBL | EBT | WBL | WBT | WBR | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 53 | 784 | 52 | 1530 | 107 | 171 | 44 | 128 | 37 |
| v/c Ratio | 0.55 | 0.34 | 0.48 | 0.64 | 0.10 | 0.87 | 0.12 | 0.76 | 0.10 |
| Control Delay | 66.3 | 9.5 | 83.2 | 5.3 | 1.4 | 84.3 | 0.6 | 71.4 | 0.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 66.3 | 9.5 | 83.2 | 5.3 | 1.4 | 84.3 | 0.6 | 71.4 | 0.5 |
| Queue Length 50th (ft) | 41 | 114 | 43 | 96 | 1 | 130 | 0 | 95 | 0 |
| Queue Length 95th (ft) | #89 | 167 | m62 | 133 | m7 | 197 | 0 | 153 | 0 |
| Internal Link Dist (ft) | | 297 | | 439 | | 547 | | 549 | |
| Turn Bay Length (ft) | 70 | | 140 | | 105 | | 40 | | 30 |
| Base Capacity (vph) | 105 | 2326 | 139 | 2377 | 1058 | 289 | 516 | 250 | 499 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.50 | 0.34 | 0.37 | 0.64 | 0.10 | 0.59 | 0.09 | 0.51 | 0.07 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.
m Volume for 95th percentile queue is metered by upstream signal.

| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | |
| Traffic Volume (vph) | 180 | 800 | 125 | 1447 | 140 | 39 | 29 | 71 | 120 | 37 | 303 |
| Future Volume (vph) | 180 | 800 | 125 | 1447 | 140 | 39 | 29 | 71 | 120 | 37 | 303 |
| Turn Type | Prot | NA | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 1 | 6 | 5 | 2 | | | 4 | | | 8 | |
| Permitted Phases | | | | | 2 | 4 | | 4 | 8 | | 8 |
| Detector Phase | 1 | 6 | 5 | 2 | 2 | 4 | 4 | 4 | 8 | 8 | 8 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 4.0 | 10.0 | 10.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Minimum Split (s) | 8.0 | 27.0 | 8.0 | 27.0 | 27.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 |
| Total Split (s) | 21.0 | 71.0 | 21.0 | 71.0 | 71.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 |
| Total Split (%) | 17.5% | 59.2% | 17.5% | 59.2% | 59.2% | 23.3% | 23.3% | 23.3% | 23.3% | 23.3% | 23.3% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 5.0 | 4.0 | 5.0 | 5.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 15.5 | 76.2 | 12.3 | 73.0 | 73.0 | | 18.5 | 18.5 | | 18.5 | 18.5 |
| Actuated g/C Ratio | 0.13 | 0.64 | 0.10 | 0.61 | 0.61 | | 0.15 | 0.15 | | 0.15 | 0.15 |
| v/c Ratio | 0.82 | 0.38 | 0.70 | 0.69 | 0.16 | | 0.38 | 0.24 | | 0.81 | 0.73 |
| Control Delay | 69.1 | 12.8 | 84.9 | 4.0 | 0.5 | | 49.9 | 11.2 | | 77.2 | 25.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 69.1 | 12.8 | 84.9 | 4.5 | 0.5 | | 49.9 | 11.2 | | 77.2 | 25.3 |
| LOS | E | B | F | A | A | | D | B | | E | C |
| Approach Delay | | 22.8 | | 10.1 | | | 30.1 | | | 43.1 | |
| Approach LOS | | C | | B | | | C | | | D | |

| Intersection Summary | |
|---|---|
| Cycle Length: 120 | |
| Actuated Cycle Length: 120 | |
| Offset: 32 (27%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow | |
| Natural Cycle: 80 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.82 | |
| Intersection Signal Delay: 19.4 | Intersection LOS: B |
| Intersection Capacity Utilization 76.4% | ICU Level of Service D |
| Analysis Period (min) 15 | |

Splits and Phases: 7: Driveway/Kings Village Rd & Mt Hermon Rd





| Lane Group | EBL | EBT | WBL | WBT | WBR | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 186 | 860 | 129 | 1492 | 144 | 70 | 73 | 162 | 312 |
| v/c Ratio | 0.82 | 0.38 | 0.70 | 0.69 | 0.16 | 0.38 | 0.24 | 0.81 | 0.73 |
| Control Delay | 69.1 | 12.8 | 84.9 | 4.0 | 0.5 | 49.9 | 11.2 | 77.2 | 25.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 69.1 | 12.8 | 84.9 | 4.5 | 0.5 | 49.9 | 11.2 | 77.2 | 25.3 |
| Queue Length 50th (ft) | 142 | 187 | 107 | 140 | 1 | 49 | 0 | 122 | 67 |
| Queue Length 95th (ft) | #249 | 246 | m144 | 29 | m1 | 92 | 40 | 193 | 165 |
| Internal Link Dist (ft) | | 532 | | 327 | | 464 | | 1400 | |
| Turn Bay Length (ft) | 175 | | 150 | | 130 | | 30 | | 50 |
| Base Capacity (vph) | 254 | 2254 | 255 | 2173 | 918 | 240 | 373 | 259 | 487 |
| Starvation Cap Reductn | 0 | 0 | 0 | 293 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.73 | 0.39 | 0.51 | 0.79 | 0.16 | 0.29 | 0.20 | 0.63 | 0.64 |

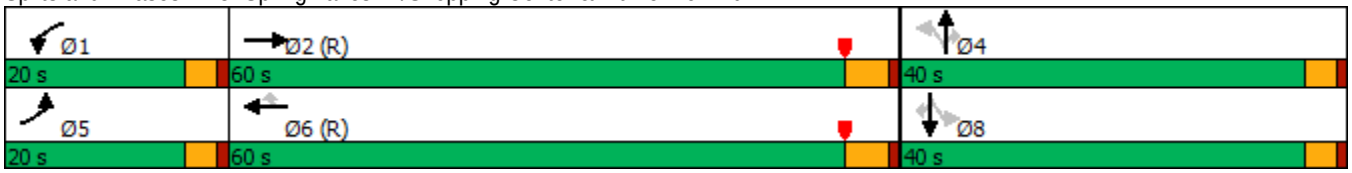
Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.
m Volume for 95th percentile queue is metered by upstream signal.

| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | |
| Traffic Volume (vph) | 65 | 990 | 61 | 1608 | 313 | 10 | 6 | 15 | 227 | 6 | 83 |
| Future Volume (vph) | 65 | 990 | 61 | 1608 | 313 | 10 | 6 | 15 | 227 | 6 | 83 |
| Turn Type | Prot | NA | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 5 | 2 | 1 | 6 | | | 4 | | | 8 | |
| Permitted Phases | | | | | 6 | 4 | | 4 | 8 | | 8 |
| Detector Phase | 5 | 2 | 1 | 6 | 6 | 4 | 4 | 4 | 8 | 8 | 8 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 4.0 | 10.0 | 10.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Minimum Split (s) | 8.0 | 30.0 | 8.0 | 30.0 | 30.0 | 35.0 | 35.0 | 35.0 | 26.0 | 26.0 | 26.0 |
| Total Split (s) | 20.0 | 60.0 | 20.0 | 60.0 | 60.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| Total Split (%) | 16.7% | 50.0% | 16.7% | 50.0% | 50.0% | 33.3% | 33.3% | 33.3% | 33.3% | 33.3% | 33.3% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 5.0 | 4.0 | 5.0 | 5.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 8.4 | 74.7 | 8.2 | 74.5 | 74.5 | | 25.8 | 25.8 | | 25.8 | 25.8 |
| Actuated g/C Ratio | 0.07 | 0.62 | 0.07 | 0.62 | 0.62 | | 0.22 | 0.22 | | 0.22 | 0.22 |
| v/c Ratio | 0.54 | 0.47 | 0.52 | 0.76 | 0.31 | | 0.05 | 0.04 | | 0.83 | 0.23 |
| Control Delay | 73.0 | 12.7 | 58.7 | 11.4 | 1.8 | | 33.7 | 0.2 | | 66.9 | 16.3 |
| Queue Delay | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 73.0 | 12.9 | 58.7 | 11.4 | 1.8 | | 33.7 | 0.2 | | 66.9 | 16.3 |
| LOS | E | B | E | B | A | | C | A | | E | B |
| Approach Delay | | 16.6 | | 11.3 | | | 17.0 | | | 53.6 | |
| Approach LOS | | B | | B | | | B | | | D | |

| Intersection Summary | |
|---|---|
| Cycle Length: 120 | |
| Actuated Cycle Length: 120 | |
| Offset: 20 (17%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow | |
| Natural Cycle: 90 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.83 | |
| Intersection Signal Delay: 16.9 | Intersection LOS: B |
| Intersection Capacity Utilization 78.4% | ICU Level of Service D |
| Analysis Period (min) 15 | |

Splits and Phases: 8: Spring Lakes Dr/Shopping Center & Mt Hermon Rd





| Lane Group | EBL | EBT | WBL | WBT | WBR | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 68 | 1041 | 64 | 1675 | 326 | 16 | 16 | 242 | 86 |
| v/c Ratio | 0.54 | 0.47 | 0.52 | 0.76 | 0.31 | 0.05 | 0.04 | 0.83 | 0.23 |
| Control Delay | 73.0 | 12.7 | 58.7 | 11.4 | 1.8 | 33.7 | 0.2 | 66.9 | 16.3 |
| Queue Delay | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 73.0 | 12.9 | 58.7 | 11.4 | 1.8 | 33.7 | 0.2 | 66.9 | 16.3 |
| Queue Length 50th (ft) | 53 | 131 | 50 | 228 | 8 | 10 | 0 | 180 | 19 |
| Queue Length 95th (ft) | m103 | 230 | m53 | m247 | m10 | 27 | 0 | 252 | 57 |
| Internal Link Dist (ft) | | 327 | | 893 | | 496 | | 475 | |
| Turn Bay Length (ft) | 80 | | 185 | | | | 30 | | 30 |
| Base Capacity (vph) | 240 | 2199 | 240 | 2218 | 1064 | 473 | 514 | 407 | 511 |
| Starvation Cap Reductn | 0 | 306 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.28 | 0.55 | 0.27 | 0.76 | 0.31 | 0.03 | 0.03 | 0.59 | 0.17 |

Intersection Summary

m Volume for 95th percentile queue is metered by upstream signal.



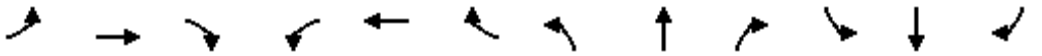
| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 443 | 845 | 185 | 1263 | 364 | 81 | 63 | 84 | 418 | 87 | 653 |
| v/c Ratio | 0.92 | 0.60 | 0.96 | 0.96 | 0.48 | 1.08 | 0.16 | 0.20 | 0.86 | 0.15 | 1.02 |
| Control Delay | 78.3 | 24.5 | 100.5 | 50.6 | 13.4 | 181.2 | 41.8 | 3.1 | 68.0 | 31.8 | 67.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 78.3 | 24.5 | 100.5 | 50.6 | 13.4 | 181.2 | 41.8 | 3.1 | 68.0 | 31.8 | 67.2 |
| Queue Length 50th (ft) | 188 | 148 | 153 | 316 | 32 | ~70 | 41 | 0 | 163 | 49 | ~396 |
| Queue Length 95th (ft) | #271 | 260 | m#286 | #639 | 209 | #175 | 82 | 15 | #234 | 91 | #628 |
| Internal Link Dist (ft) | | 893 | | 795 | | | 318 | | | 505 | |
| Turn Bay Length (ft) | 300 | | 275 | | 100 | 190 | | 150 | 220 | | |
| Base Capacity (vph) | 491 | 1399 | 193 | 1320 | 752 | 75 | 382 | 420 | 520 | 570 | 641 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.90 | 0.60 | 0.96 | 0.96 | 0.48 | 1.08 | 0.16 | 0.20 | 0.80 | 0.15 | 1.02 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.



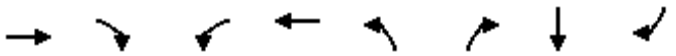
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 430 | 731 | 88 | 179 | 1225 | 353 | 79 | 61 | 81 | 405 | 84 | 633 |
| Future Volume (veh/h) | 430 | 731 | 88 | 179 | 1225 | 353 | 79 | 61 | 81 | 405 | 84 | 633 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.99 | 1.00 | | 1.00 | 1.00 | | 0.98 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1885 | 1870 | 1885 | 1885 | 1885 | 1885 | 1900 | 1900 | 1900 | 1885 | 1900 | 1885 |
| Adj Flow Rate, veh/h | 443 | 754 | 91 | 185 | 1263 | 0 | 81 | 63 | 84 | 418 | 87 | 0 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 1 | 2 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 |
| Cap, veh/h | 487 | 1682 | 203 | 195 | 1776 | | 75 | 150 | 124 | 473 | 328 | |
| Arrive On Green | 0.28 | 1.00 | 1.00 | 0.11 | 0.50 | 0.00 | 0.04 | 0.08 | 0.08 | 0.14 | 0.17 | 0.00 |
| Sat Flow, veh/h | 3483 | 3190 | 385 | 1795 | 3582 | 1598 | 1810 | 1900 | 1580 | 3483 | 1900 | 1598 |
| Grp Volume(v), veh/h | 443 | 420 | 425 | 185 | 1263 | 0 | 81 | 63 | 84 | 418 | 87 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1742 | 1777 | 1798 | 1795 | 1791 | 1598 | 1810 | 1900 | 1580 | 1742 | 1900 | 1598 |
| Q Serve(g_s), s | 14.7 | 0.0 | 0.0 | 12.3 | 33.0 | 0.0 | 5.0 | 3.8 | 6.2 | 14.1 | 4.8 | 0.0 |
| Cycle Q Clear(g_c), s | 14.7 | 0.0 | 0.0 | 12.3 | 33.0 | 0.0 | 5.0 | 3.8 | 6.2 | 14.1 | 4.8 | 0.0 |
| Prop In Lane | 1.00 | | 0.21 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 487 | 937 | 948 | 195 | 1776 | | 75 | 150 | 124 | 473 | 328 | |
| V/C Ratio(X) | 0.91 | 0.45 | 0.45 | 0.95 | 0.71 | | 1.07 | 0.42 | 0.68 | 0.88 | 0.26 | |
| Avail Cap(c_a), veh/h | 493 | 937 | 948 | 195 | 1776 | | 75 | 364 | 303 | 522 | 570 | |
| HCM Platoon Ratio | 2.00 | 2.00 | 2.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.88 | 0.88 | 0.88 | 0.68 | 0.68 | 0.00 | 1.00 | 1.00 | 1.00 | 0.88 | 0.88 | 0.00 |
| Uniform Delay (d), s/veh | 42.5 | 0.0 | 0.0 | 53.2 | 23.6 | 0.0 | 57.5 | 52.7 | 53.8 | 50.9 | 43.0 | 0.0 |
| Incr Delay (d2), s/veh | 18.4 | 1.4 | 1.4 | 39.7 | 1.7 | 0.0 | 125.4 | 0.7 | 2.4 | 13.0 | 0.1 | 0.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 6.6 | 0.4 | 0.4 | 7.6 | 13.8 | 0.0 | 4.9 | 1.8 | 2.5 | 7.0 | 2.2 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 60.9 | 1.4 | 1.4 | 92.9 | 25.2 | 0.0 | 182.9 | 53.4 | 56.1 | 63.9 | 43.2 | 0.0 |
| LnGrp LOS | E | A | A | F | C | | F | D | E | E | D | |
| Approach Vol, veh/h | | 1288 | | | 1448 | | | 228 | | | 505 | |
| Approach Delay, s/veh | | 21.8 | | | 33.9 | | | 100.4 | | | 60.3 | |
| Approach LOS | | C | | | C | | | F | | | E | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 17.0 | 68.3 | 20.3 | 14.5 | 20.8 | 64.5 | 9.0 | 25.7 |
| Change Period (Y+Rc), s | 4.0 | 5.0 | 4.0 | 5.0 | 4.0 | 5.0 | 4.0 | 5.0 |
| Max Green Setting (Gmax), s | 13.0 | 48.0 | 18.0 | 23.0 | 17.0 | 44.0 | 5.0 | 36.0 |
| Max Q Clear Time (g_c+I1), s | 14.3 | 2.0 | 16.1 | 8.2 | 16.7 | 35.0 | 7.0 | 6.8 |
| Green Ext Time (p_c), s | 0.0 | 6.2 | 0.1 | 0.2 | 0.0 | 5.5 | 0.0 | 0.3 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 37.6 |
| HCM 6th LOS | D |

**Notes**

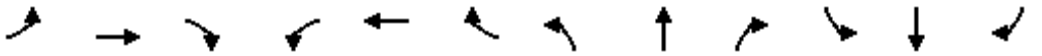
Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.



| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 1226 | 111 | 60 | 1169 | 99 | 78 | 41 | 557 |
| v/c Ratio | 0.57 | 0.11 | 0.71 | 0.85 | 0.24 | 0.28 | 0.23 | 0.90 |
| Control Delay | 15.5 | 5.3 | 96.6 | 39.2 | 51.9 | 7.3 | 50.8 | 46.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 15.5 | 5.3 | 96.6 | 39.2 | 51.9 | 7.3 | 50.8 | 46.2 |
| Queue Length 50th (ft) | 253 | 10 | 43 | 396 | 33 | 0 | 28 | 296 |
| Queue Length 95th (ft) | 483 | 47 | #152 | #668 | 74 | 27 | 64 | 480 |
| Internal Link Dist (ft) | 1456 | | | 401 | | | 369 | |
| Turn Bay Length (ft) | | 100 | 190 | | 130 | 180 | | 350 |
| Base Capacity (vph) | 2809 | 1257 | 85 | 1689 | 574 | 351 | 451 | 779 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.44 | 0.09 | 0.71 | 0.69 | 0.17 | 0.22 | 0.09 | 0.72 |

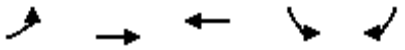
Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



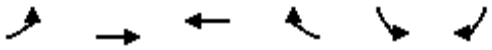
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 0 | 1165 | 105 | 57 | 1111 | 0 | 94 | 0 | 74 | 13 | 26 | 529 |
| Future Volume (vph) | 0 | 1165 | 105 | 57 | 1111 | 0 | 94 | 0 | 74 | 13 | 26 | 529 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 5.3 | 5.3 | 4.2 | 5.3 | | 4.6 | | 4.6 | | 4.2 | 3.7 |
| Lane Util. Factor | | 0.95 | 1.00 | 1.00 | 0.95 | | 0.97 | | 1.00 | | 1.00 | 1.00 |
| Frpb, ped/bikes | | 1.00 | 0.98 | 1.00 | 1.00 | | 1.00 | | 1.00 | | 1.00 | 1.00 |
| Flpb, ped/bikes | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | | 1.00 | | 1.00 | 1.00 |
| Frt | | 1.00 | 0.85 | 1.00 | 1.00 | | 1.00 | | 0.85 | | 1.00 | 0.85 |
| Flt Protected | | 1.00 | 1.00 | 0.95 | 1.00 | | 0.95 | | 1.00 | | 0.98 | 1.00 |
| Satd. Flow (prot) | | 3539 | 1565 | 1770 | 3574 | | 3502 | | 1599 | | 1818 | 1579 |
| Flt Permitted | | 1.00 | 1.00 | 0.95 | 1.00 | | 0.95 | | 1.00 | | 0.98 | 1.00 |
| Satd. Flow (perm) | | 3539 | 1565 | 1770 | 3574 | | 3502 | | 1599 | | 1818 | 1579 |
| Peak-hour factor, PHF | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.91 | 0.95 | 0.95 |
| Adj. Flow (vph) | 0 | 1226 | 111 | 60 | 1169 | 0 | 99 | 0 | 78 | 14 | 27 | 557 |
| RTOR Reduction (vph) | 0 | 0 | 29 | 0 | 0 | 0 | 0 | 0 | 69 | 0 | 0 | 64 |
| Lane Group Flow (vph) | 0 | 1226 | 82 | 60 | 1169 | 0 | 99 | 0 | 9 | 0 | 41 | 493 |
| Confl. Peds. (#/hr) | | | | | | | 2 | | | | | 2 |
| Confl. Bikes (#/hr) | | | 2 | | | 1 | | | | | | |
| Heavy Vehicles (%) | 0% | 2% | 1% | 2% | 1% | 0% | 0% | 0% | 1% | 8% | 0% | 2% |
| Turn Type | | NA | Perm | Prot | NA | | Prot | | Perm | Perm | NA | custom |
| Protected Phases | | 6 | | 5 | 2 | | 7 | | | | 8 | 1 |
| Permitted Phases | | | 6 | | | | | | 7 | 8 | | 8 |
| Actuated Green, G (s) | | 65.8 | 65.8 | 5.2 | 41.6 | | 12.5 | | 12.5 | | 7.7 | 37.6 |
| Effective Green, g (s) | | 65.8 | 65.8 | 5.2 | 41.6 | | 12.5 | | 12.5 | | 7.7 | 37.6 |
| Actuated g/C Ratio | | 0.60 | 0.60 | 0.05 | 0.38 | | 0.11 | | 0.11 | | 0.07 | 0.34 |
| Clearance Time (s) | | 5.3 | 5.3 | 4.2 | 5.3 | | 4.6 | | 4.6 | | 4.2 | 3.7 |
| Vehicle Extension (s) | | 3.5 | 3.5 | 3.0 | 3.5 | | 3.0 | | 3.0 | | 3.0 | 1.0 |
| Lane Grp Cap (vph) | | 2126 | 940 | 84 | 1357 | | 399 | | 182 | | 127 | 542 |
| v/s Ratio Prot | | 0.35 | | 0.03 | c0.33 | | c0.03 | | | | | c0.25 |
| v/s Ratio Perm | | | 0.05 | | | | | | 0.01 | | 0.02 | 0.06 |
| v/c Ratio | | 0.58 | 0.09 | 0.71 | 0.86 | | 0.25 | | 0.05 | | 0.32 | 0.91 |
| Uniform Delay, d1 | | 13.3 | 9.2 | 51.4 | 31.3 | | 44.2 | | 43.2 | | 48.4 | 34.3 |
| Progression Factor | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | | 1.00 | | 1.00 | 1.00 |
| Incremental Delay, d2 | | 0.4 | 0.0 | 24.9 | 6.0 | | 0.3 | | 0.1 | | 1.5 | 18.7 |
| Delay (s) | | 13.8 | 9.2 | 76.3 | 37.3 | | 44.5 | | 43.3 | | 49.9 | 53.0 |
| Level of Service | | B | A | E | D | | D | | D | | D | D |
| Approach Delay (s) | | 13.4 | | | 39.2 | | | 44.0 | | | 52.8 | |
| Approach LOS | | B | | | D | | | D | | | D | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 31.5 | HCM 2000 Level of Service | C |
| HCM 2000 Volume to Capacity ratio | 0.80 | | |
| Actuated Cycle Length (s) | 109.5 | Sum of lost time (s) | 18.3 |
| Intersection Capacity Utilization | 78.1% | ICU Level of Service | D |
| Analysis Period (min) | 15 | | |
| c Critical Lane Group | | | |



| Lane Group | EBL | EBT | WBT | SBL | SBR |
|---|---|---|---|---|---|
| Lane Group Flow (vph) | 118 | 794 | 430 | 204 | 40 |
| v/c Ratio | 0.41 | 0.71 | 0.58 | 0.51 | 0.11 |
| Control Delay | 33.2 | 13.4 | 20.1 | 30.1 | 12.8 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 33.2 | 13.4 | 20.1 | 30.1 | 12.8 |
| Queue Length 50th (ft) | 42 | 186 | 128 | 70 | 3 |
| Queue Length 95th (ft) | 113 | 376 | 267 | 169 | 29 |
| Internal Link Dist (ft) | | 358 | 271 | 2509 | |
| Turn Bay Length (ft) | 295 | | | | 70 |
| Base Capacity (vph) | 853 | 1799 | 1144 | 1137 | 998 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.14 | 0.44 | 0.38 | 0.18 | 0.04 |

Intersection Summary



| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Volume (veh/h) | 110 | 738 | 246 | 153 | 190 | 37 |
| Future Volume (veh/h) | 110 | 738 | 246 | 153 | 190 | 37 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 118 | 794 | 265 | 165 | 204 | 40 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 159 | 1114 | 427 | 266 | 295 | 262 |
| Arrive On Green | 0.09 | 0.60 | 0.40 | 0.40 | 0.17 | 0.17 |
| Sat Flow, veh/h | 1781 | 1870 | 1078 | 671 | 1781 | 1585 |
| Grp Volume(v), veh/h | 118 | 794 | 0 | 430 | 204 | 40 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 0 | 1750 | 1781 | 1585 |
| Q Serve(g_s), s | 2.9 | 13.5 | 0.0 | 8.9 | 4.9 | 1.0 |
| Cycle Q Clear(g_c), s | 2.9 | 13.5 | 0.0 | 8.9 | 4.9 | 1.0 |
| Prop In Lane | 1.00 | | | 0.38 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 159 | 1114 | 0 | 693 | 295 | 262 |
| V/C Ratio(X) | 0.74 | 0.71 | 0.00 | 0.62 | 0.69 | 0.15 |
| Avail Cap(c_a), veh/h | 1181 | 1654 | 0 | 1547 | 1575 | 1401 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 20.1 | 6.4 | 0.0 | 10.9 | 17.8 | 16.2 |
| Incr Delay (d2), s/veh | 6.7 | 1.8 | 0.0 | 1.9 | 3.5 | 0.3 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.4 | 3.6 | 0.0 | 3.1 | 2.0 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d),s/veh | 26.8 | 8.2 | 0.0 | 12.9 | 21.3 | 16.5 |
| LnGrp LOS | C | A | A | B | C | B |
| Approach Vol, veh/h | | 912 | 430 | | 244 | |
| Approach Delay, s/veh | | 10.6 | 12.9 | | 20.5 | |
| Approach LOS | | B | B | | C | |

| Timer - Assigned Phs | | 2 | | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | | 32.5 | | 12.8 | 9.0 | 23.4 |
| Change Period (Y+Rc), s | | 5.5 | | 5.3 | 5.0 | 5.5 |
| Max Green Setting (Gmax), s | | 40.0 | | 40.0 | 30.0 | 40.0 |
| Max Q Clear Time (g_c+I1), s | | 15.5 | | 6.9 | 4.9 | 10.9 |
| Green Ext Time (p_c), s | | 11.5 | | 1.0 | 0.3 | 5.8 |

| Intersection Summary | | | | | | |
|---|---|---|---|---|---|---|
| HCM 6th Ctrl Delay | | | 12.8 | | | |
| HCM 6th LOS | | | B | | | |

| Intersection | |
|---|---|
| Int Delay, s/veh | 1.1 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 31 | 9 | 264 | 35 | 6 | 167 |
| Future Vol, veh/h | 31 | 9 | 264 | 35 | 6 | 167 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 9 | 9 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 84 | 84 | 84 | 84 | 84 | 84 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 37 | 11 | 314 | 42 | 7 | 199 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 557 | 344 | 0 | 0 | 365 | 0 |
| Stage 1 | 344 | - | - | - | - | - |
| Stage 2 | 213 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 491 | 699 | - | - | 1194 | - |
| Stage 1 | 718 | - | - | - | - | - |
| Stage 2 | 823 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 484 | 694 | - | - | 1185 | - |
| Mov Cap-2 Maneuver | 484 | - | - | - | - | - |
| Stage 1 | 713 | - | - | - | - | - |
| Stage 2 | 817 | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s | 12.6 | 0 | 0.3 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | 519 | 1185 | - |
| HCM Lane V/C Ratio | - | - | 0.092 | 0.006 | - |
| HCM Control Delay (s) | - | - | 12.6 | 8.1 | 0 |
| HCM Lane LOS | - | - | B | A | A |
| HCM 95th %tile Q(veh) | - | - | 0.3 | 0 | - |

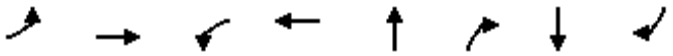
| Intersection | |
|---|---|
| Int Delay, s/veh | 0 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 0 | 273 | 0 | 0 | 173 |
| Future Vol, veh/h | 0 | 0 | 273 | 0 | 0 | 173 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 9 | 9 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 84 | 84 | 84 | 84 | 84 | 84 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 0 | 325 | 0 | 0 | 206 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 540 | 334 | 0 | 0 | 334 | 0 |
| Stage 1 | 334 | - | - | - | - | - |
| Stage 2 | 206 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 503 | 708 | - | - | 1225 | - |
| Stage 1 | 725 | - | - | - | - | - |
| Stage 2 | 829 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 499 | 703 | - | - | 1216 | - |
| Mov Cap-2 Maneuver | 499 | - | - | - | - | - |
| Stage 1 | 720 | - | - | - | - | - |
| Stage 2 | 829 | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s | 0 | 0 | 0 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | - | 1216 | - |
| HCM Lane V/C Ratio | - | - | - | - | - |
| HCM Control Delay (s) | - | - | 0 | 0 | - |
| HCM Lane LOS | - | - | A | A | - |
| HCM 95th %tile Q(veh) | - | - | - | 0 | - |



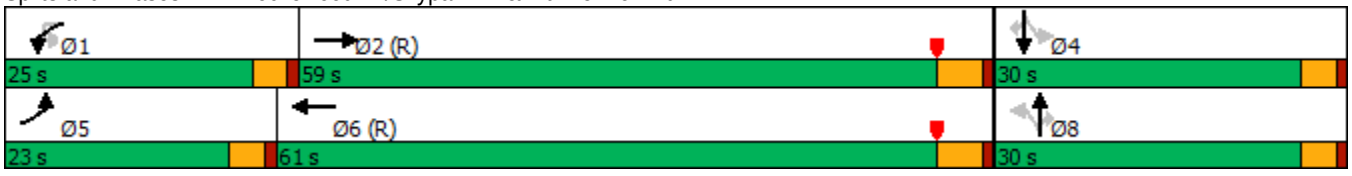
| Lane Group | EBL | EBT | WBL | WBT | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 8 | 1193 | 183 | 759 | 48 | 317 | 160 | 9 |
| v/c Ratio | 0.03 | 0.65 | 0.74 | 0.49 | 0.15 | 0.52 | 0.51 | 0.02 |
| Control Delay | 40.1 | 22.1 | 59.0 | 21.8 | 36.9 | 7.6 | 45.2 | 0.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 40.1 | 22.1 | 59.0 | 21.8 | 36.9 | 7.6 | 45.2 | 0.1 |
| Queue Length 50th (ft) | 5 | 318 | 141 | 147 | 28 | 2 | 103 | 0 |
| Queue Length 95th (ft) | 19 | 425 | 214 | 202 | 61 | 72 | 172 | 0 |
| Internal Link Dist (ft) | | 964 | | 411 | 1568 | | 382 | |
| Turn Bay Length (ft) | 170 | | 160 | | | 60 | | 130 |
| Base Capacity (vph) | 300 | 1826 | 329 | 1564 | 314 | 607 | 312 | 405 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.03 | 0.65 | 0.56 | 0.49 | 0.15 | 0.52 | 0.51 | 0.02 |

Intersection Summary

| Lane Group | EBL | EBT | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | |
| Traffic Volume (vph) | 7 | 1016 | 163 | 601 | 36 | 7 | 282 | 123 | 20 | 8 |
| Future Volume (vph) | 7 | 1016 | 163 | 601 | 36 | 7 | 282 | 123 | 20 | 8 |
| Turn Type | Prot | NA | Prot | NA | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 5 | 2 | 1 | 6 | | 8 | | | 4 | |
| Permitted Phases | | | | | 8 | | 8 | 4 | | 4 |
| Detector Phase | 5 | 2 | 1 | 6 | 8 | 8 | 8 | 4 | 4 | 4 |
| Switch Phase | | | | | | | | | | |
| Minimum Initial (s) | 6.0 | 10.0 | 6.0 | 10.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| Minimum Split (s) | 20.0 | 30.0 | 20.0 | 28.0 | 29.0 | 29.0 | 29.0 | 29.0 | 29.0 | 29.0 |
| Total Split (s) | 23.0 | 59.0 | 25.0 | 61.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| Total Split (%) | 20.2% | 51.8% | 21.9% | 53.5% | 26.3% | 26.3% | 26.3% | 26.3% | 26.3% | 26.3% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | -1.0 | 0.0 | -1.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | Max | C-Max | None | C-Max | Max | Max | Max | Max | Max | Max |
| Act Effct Green (s) | 19.0 | 60.2 | 15.8 | 57.0 | | 26.0 | 26.0 | | 26.0 | 26.0 |
| Actuated g/C Ratio | 0.17 | 0.53 | 0.14 | 0.50 | | 0.23 | 0.23 | | 0.23 | 0.23 |
| v/c Ratio | 0.03 | 0.65 | 0.74 | 0.49 | | 0.15 | 0.52 | | 0.51 | 0.02 |
| Control Delay | 40.1 | 22.1 | 59.0 | 21.8 | | 36.9 | 7.6 | | 45.2 | 0.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 40.1 | 22.1 | 59.0 | 21.8 | | 36.9 | 7.6 | | 45.2 | 0.1 |
| LOS | D | C | E | C | | D | A | | D | A |
| Approach Delay | | 22.2 | | 29.0 | | 11.5 | | | 42.8 | |
| Approach LOS | | C | | C | | B | | | D | |

| Intersection Summary | |
|---|---|
| Cycle Length: 114 | |
| Actuated Cycle Length: 114 | |
| Offset: 32 (28%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow | |
| Natural Cycle: 80 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.74 | |
| Intersection Signal Delay: 24.5 | Intersection LOS: C |
| Intersection Capacity Utilization 90.2% | ICU Level of Service E |
| Analysis Period (min) 15 | |

Splits and Phases: 4: Lockewood Ln/Skypark Dr & Mt. Hermon Rd



| Intersection | |
|---|---|
| Int Delay, s/veh | 0 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 1421 | 0 | 0 | 839 | 0 | 0 |
| Future Vol, veh/h | 1421 | 0 | 0 | 839 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 6 | 6 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 89 | 89 | 89 | 89 | 89 | 89 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1597 | 0 | 0 | 943 | 0 | 0 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | - | 805 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.94 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.32 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 325 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | - | 323 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s | 0 | 0 | 0 |
| HCM LOS | | | A |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | - | - | - | - |
| HCM Lane V/C Ratio | - | - | - | - |
| HCM Control Delay (s) | 0 | - | - | - |
| HCM Lane LOS | A | - | - | - |
| HCM 95th %tile Q(veh) | - | - | - | - |



| Lane Group | EBL | EBT | WBL | WBT | WBR | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 54 | 1513 | 47 | 846 | 93 | 69 | 46 | 98 | 15 |
| v/c Ratio | 0.28 | 0.59 | 0.46 | 0.38 | 0.09 | 0.57 | 0.17 | 0.68 | 0.05 |
| Control Delay | 50.1 | 3.3 | 71.0 | 5.0 | 0.8 | 64.0 | 1.3 | 70.0 | 0.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 50.1 | 3.3 | 71.0 | 5.0 | 0.8 | 64.0 | 1.3 | 70.0 | 0.4 |
| Queue Length 50th (ft) | 41 | 36 | 36 | 102 | 1 | 49 | 0 | 70 | 0 |
| Queue Length 95th (ft) | m66 | 52 | 76 | 92 | 0 | 91 | 0 | 120 | 0 |
| Internal Link Dist (ft) | | 288 | | 439 | | 547 | | 549 | |
| Turn Bay Length (ft) | 70 | | 140 | | 105 | | 40 | | 30 |
| Base Capacity (vph) | 245 | 2550 | 135 | 2222 | 993 | 221 | 413 | 261 | 416 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.22 | 0.59 | 0.35 | 0.38 | 0.09 | 0.31 | 0.11 | 0.38 | 0.04 |

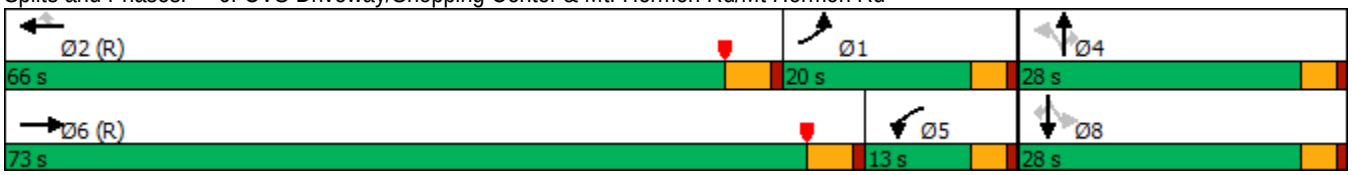
Intersection Summary

m Volume for 95th percentile queue is metered by upstream signal.

| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | |
| Traffic Volume (vph) | 48 | 1287 | 42 | 753 | 83 | 54 | 7 | 41 | 81 | 6 | 13 |
| Future Volume (vph) | 48 | 1287 | 42 | 753 | 83 | 54 | 7 | 41 | 81 | 6 | 13 |
| Turn Type | Prot | NA | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 1 | 6 | 5 | 2 | | | 4 | | | 8 | |
| Permitted Phases | | | | | 2 | 4 | | 4 | 8 | | 8 |
| Detector Phase | 1 | 6 | 5 | 2 | 2 | 4 | 4 | 4 | 8 | 8 | 8 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 4.0 | 10.0 | 10.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Minimum Split (s) | 20.0 | 27.0 | 8.0 | 27.0 | 27.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 |
| Total Split (s) | 20.0 | 73.0 | 13.0 | 66.0 | 66.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 |
| Total Split (%) | 17.5% | 64.0% | 11.4% | 57.9% | 57.9% | 24.6% | 24.6% | 24.6% | 24.6% | 24.6% | 24.6% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | -1.0 | 0.0 | -1.0 | -1.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lag | Lead | Lag | Lead | Lead | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 12.4 | 83.5 | 6.8 | 77.9 | 77.9 | | 13.3 | 13.3 | | 13.3 | 13.3 |
| Actuated g/C Ratio | 0.11 | 0.73 | 0.06 | 0.68 | 0.68 | | 0.12 | 0.12 | | 0.12 | 0.12 |
| v/c Ratio | 0.28 | 0.59 | 0.46 | 0.38 | 0.09 | | 0.57 | 0.17 | | 0.68 | 0.05 |
| Control Delay | 50.1 | 3.3 | 71.0 | 5.0 | 0.8 | | 64.0 | 1.3 | | 70.0 | 0.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 50.1 | 3.3 | 71.0 | 5.0 | 0.8 | | 64.0 | 1.3 | | 70.0 | 0.4 |
| LOS | D | A | E | A | A | | E | A | | E | A |
| Approach Delay | | 4.9 | | 7.7 | | | 39.0 | | | 60.7 | |
| Approach LOS | | A | | A | | | D | | | E | |

| Intersection Summary | |
|---|---|
| Cycle Length: 114 | |
| Actuated Cycle Length: 114 | |
| Offset: 64 (56%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow | |
| Natural Cycle: 75 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.68 | |
| Intersection Signal Delay: 9.6 | Intersection LOS: A |
| Intersection Capacity Utilization 59.1% | ICU Level of Service B |
| Analysis Period (min) 15 | |

Splits and Phases: 6: CVS Driveway/Shopping Center & Mt. Hermon Rd/Mt Hermon Rd





| Lane Group | EBL | EBT | WBL | WBT | WBR | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 144 | 1456 | 31 | 888 | 157 | 7 | 21 | 119 | 98 |
| v/c Ratio | 0.71 | 0.57 | 0.33 | 0.41 | 0.16 | 0.03 | 0.07 | 0.73 | 0.34 |
| Control Delay | 57.2 | 15.6 | 65.4 | 4.0 | 0.5 | 38.6 | 0.5 | 70.8 | 11.0 |
| Queue Delay | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 57.2 | 15.6 | 65.4 | 4.1 | 0.5 | 38.6 | 0.5 | 70.8 | 11.0 |
| Queue Length 50th (ft) | 104 | 320 | 25 | 36 | 0 | 4 | 0 | 85 | 0 |
| Queue Length 95th (ft) | 170 | 526 | m53 | 33 | 0 | 17 | 0 | 140 | 45 |
| Internal Link Dist (ft) | | 532 | | 327 | | 464 | | 1400 | |
| Turn Bay Length (ft) | 175 | | 150 | | 130 | | 30 | | 50 |
| Base Capacity (vph) | 361 | 2552 | 269 | 2145 | 962 | 310 | 394 | 243 | 386 |
| Starvation Cap Reductn | 0 | 0 | 0 | 302 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 192 | 0 | 0 | 0 | 0 | 5 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.40 | 0.62 | 0.12 | 0.48 | 0.16 | 0.02 | 0.05 | 0.49 | 0.25 |

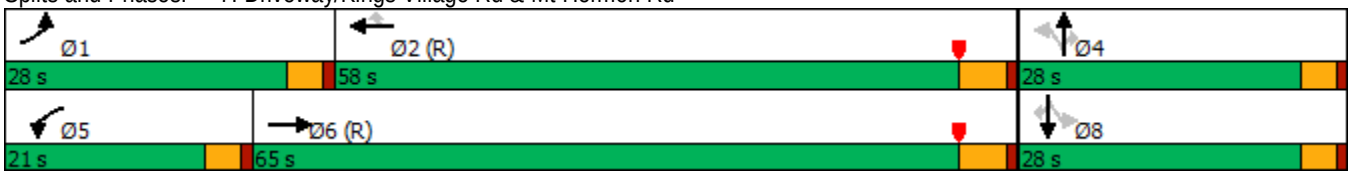
Intersection Summary

m Volume for 95th percentile queue is metered by upstream signal.

| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | |
| Traffic Volume (vph) | 137 | 1365 | 29 | 844 | 149 | 4 | 3 | 20 | 111 | 2 | 93 |
| Future Volume (vph) | 137 | 1365 | 29 | 844 | 149 | 4 | 3 | 20 | 111 | 2 | 93 |
| Turn Type | Prot | NA | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 1 | 6 | 5 | 2 | | | 4 | | | 8 | |
| Permitted Phases | | | | | 2 | 4 | | 4 | 8 | | 8 |
| Detector Phase | 1 | 6 | 5 | 2 | 2 | 4 | 4 | 4 | 8 | 8 | 8 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 4.0 | 10.0 | 10.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Minimum Split (s) | 8.0 | 27.0 | 8.0 | 27.0 | 27.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 |
| Total Split (s) | 28.0 | 65.0 | 21.0 | 58.0 | 58.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 |
| Total Split (%) | 24.6% | 57.0% | 18.4% | 50.9% | 50.9% | 24.6% | 24.6% | 24.6% | 24.6% | 24.6% | 24.6% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | -1.0 | 0.0 | -1.0 | -1.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 13.5 | 83.3 | 6.0 | 72.5 | 72.5 | | 16.1 | 16.1 | | 16.1 | 16.1 |
| Actuated g/C Ratio | 0.12 | 0.73 | 0.05 | 0.64 | 0.64 | | 0.14 | 0.14 | | 0.14 | 0.14 |
| v/c Ratio | 0.71 | 0.57 | 0.33 | 0.41 | 0.16 | | 0.03 | 0.07 | | 0.73 | 0.34 |
| Control Delay | 57.2 | 15.6 | 65.4 | 4.0 | 0.5 | | 38.6 | 0.5 | | 70.8 | 11.0 |
| Queue Delay | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 57.2 | 15.6 | 65.4 | 4.1 | 0.5 | | 38.6 | 0.5 | | 70.8 | 11.0 |
| LOS | E | B | E | A | A | | D | A | | E | B |
| Approach Delay | | 19.4 | | 5.3 | | | 10.0 | | | 43.8 | |
| Approach LOS | | B | | A | | | A | | | D | |

| Intersection Summary | |
|---|---|
| Cycle Length: 114 | |
| Actuated Cycle Length: 114 | |
| Offset: 28 (25%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow | |
| Natural Cycle: 65 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.73 | |
| Intersection Signal Delay: 15.9 | Intersection LOS: B |
| Intersection Capacity Utilization 65.4% | ICU Level of Service C |
| Analysis Period (min) 15 | |

Splits and Phases: 7: Driveway/Kings Village Rd & Mt Hermon Rd





| Lane Group | EBL | EBT | WBL | WBT | WBR | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 48 | 1571 | 51 | 1092 | 207 | 17 | 26 | 129 | 30 |
| v/c Ratio | 0.44 | 0.65 | 0.47 | 0.46 | 0.18 | 0.08 | 0.09 | 0.64 | 0.11 |
| Control Delay | 74.3 | 11.3 | 67.0 | 4.6 | 0.4 | 37.5 | 1.9 | 58.3 | 3.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 74.3 | 11.3 | 67.0 | 4.6 | 0.4 | 37.5 | 1.9 | 58.3 | 3.1 |
| Queue Length 50th (ft) | 37 | 131 | 39 | 48 | 0 | 11 | 0 | 92 | 0 |
| Queue Length 95th (ft) | m67 | 698 | m66 | 131 | 3 | 28 | 5 | 134 | 9 |
| Internal Link Dist (ft) | | 327 | | 893 | | 496 | | 475 | |
| Turn Bay Length (ft) | 80 | | 185 | | | | 30 | | 30 |
| Base Capacity (vph) | 253 | 2407 | 234 | 2352 | 1132 | 474 | 539 | 423 | 505 |
| Starvation Cap Reductn | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.19 | 0.66 | 0.22 | 0.46 | 0.18 | 0.04 | 0.05 | 0.30 | 0.06 |

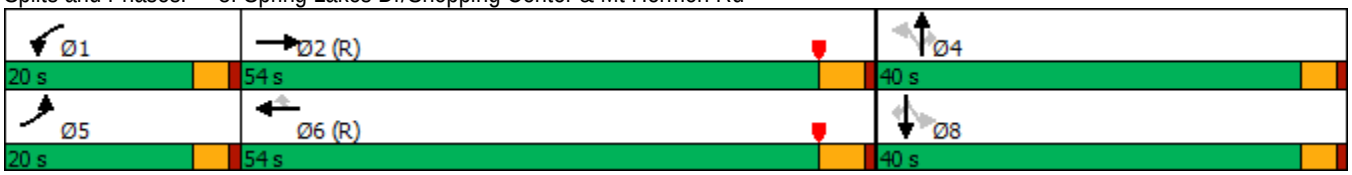
Intersection Summary

m Volume for 95th percentile queue is metered by upstream signal.

| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | |
| Traffic Volume (vph) | 44 | 1441 | 47 | 1005 | 190 | 13 | 3 | 24 | 117 | 2 | 28 |
| Future Volume (vph) | 44 | 1441 | 47 | 1005 | 190 | 13 | 3 | 24 | 117 | 2 | 28 |
| Turn Type | Prot | NA | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 5 | 2 | 1 | 6 | | | 4 | | | 8 | |
| Permitted Phases | | | | | 6 | 4 | | 4 | 8 | | 8 |
| Detector Phase | 5 | 2 | 1 | 6 | 6 | 4 | 4 | 4 | 8 | 8 | 8 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 4.0 | 10.0 | 10.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Minimum Split (s) | 8.0 | 30.0 | 8.0 | 30.0 | 30.0 | 35.0 | 35.0 | 35.0 | 26.0 | 26.0 | 26.0 |
| Total Split (s) | 20.0 | 54.0 | 20.0 | 54.0 | 54.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| Total Split (%) | 17.5% | 47.4% | 17.5% | 47.4% | 47.4% | 35.1% | 35.1% | 35.1% | 35.1% | 35.1% | 35.1% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | -1.0 | 0.0 | -1.0 | -1.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 7.0 | 79.1 | 7.4 | 79.5 | 79.5 | | 17.1 | 17.1 | | 17.1 | 17.1 |
| Actuated g/C Ratio | 0.06 | 0.69 | 0.06 | 0.70 | 0.70 | | 0.15 | 0.15 | | 0.15 | 0.15 |
| v/c Ratio | 0.44 | 0.65 | 0.47 | 0.46 | 0.18 | | 0.08 | 0.09 | | 0.64 | 0.11 |
| Control Delay | 74.3 | 11.3 | 67.0 | 4.6 | 0.4 | | 37.5 | 1.9 | | 58.3 | 3.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 74.3 | 11.3 | 67.0 | 4.6 | 0.4 | | 37.5 | 1.9 | | 58.3 | 3.1 |
| LOS | E | B | E | A | A | | D | A | | E | A |
| Approach Delay | | 13.2 | | 6.3 | | | 16.0 | | | 47.9 | |
| Approach LOS | | B | | A | | | B | | | D | |

| Intersection Summary | |
|---|---|
| Cycle Length: 114 | |
| Actuated Cycle Length: 114 | |
| Offset: 28 (25%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow | |
| Natural Cycle: 90 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.65 | |
| Intersection Signal Delay: 12.0 | Intersection LOS: B |
| Intersection Capacity Utilization 66.1% | ICU Level of Service C |
| Analysis Period (min) 15 | |

Splits and Phases: 8: Spring Lakes Dr/Shopping Center & Mt Hermon Rd

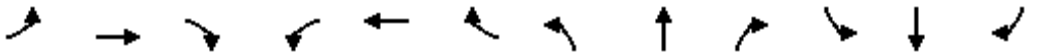




| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 598 | 1134 | 121 | 784 | 589 | 85 | 135 | 200 | 563 | 68 | 403 |
| v/c Ratio | 0.85 | 0.72 | 0.70 | 0.65 | 0.66 | 0.62 | 0.63 | 0.56 | 0.88 | 0.16 | 0.62 |
| Control Delay | 60.5 | 27.7 | 79.2 | 31.0 | 8.0 | 69.5 | 59.9 | 12.4 | 61.9 | 35.5 | 7.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 60.5 | 27.7 | 79.2 | 31.0 | 8.0 | 69.5 | 59.9 | 12.4 | 61.9 | 35.5 | 7.9 |
| Queue Length 50th (ft) | 239 | 201 | 94 | 255 | 17 | 61 | 97 | 0 | 206 | 41 | 0 |
| Queue Length 95th (ft) | #307 | #539 | #163 | #385 | 123 | 112 | 147 | 63 | #291 | 74 | 79 |
| Internal Link Dist (ft) | | 893 | | 795 | | | 318 | | | 505 | |
| Turn Bay Length (ft) | 300 | | 275 | | 100 | 190 | | 150 | 220 | | |
| Base Capacity (vph) | 723 | 1576 | 187 | 1208 | 888 | 179 | 396 | 484 | 669 | 550 | 720 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.83 | 0.72 | 0.65 | 0.65 | 0.66 | 0.47 | 0.34 | 0.41 | 0.84 | 0.12 | 0.56 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 550 | 1012 | 31 | 111 | 721 | 542 | 78 | 124 | 184 | 518 | 63 | 371 |
| Future Volume (veh/h) | 550 | 1012 | 31 | 111 | 721 | 542 | 78 | 124 | 184 | 518 | 63 | 371 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.94 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1885 | 1826 | 1707 | 1841 | 1796 | 1870 | 1811 | 1885 | 1870 | 1885 | 1856 | 1826 |
| Adj Flow Rate, veh/h | 598 | 1100 | 34 | 121 | 784 | 0 | 85 | 135 | 200 | 563 | 68 | 0 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 1 | 5 | 13 | 4 | 7 | 2 | 6 | 1 | 2 | 1 | 3 | 5 |
| Cap, veh/h | 648 | 1494 | 46 | 145 | 1132 | | 107 | 308 | 245 | 622 | 520 | |
| Arrive On Green | 0.25 | 0.58 | 0.57 | 0.17 | 0.66 | 0.00 | 0.06 | 0.16 | 0.16 | 0.18 | 0.28 | 0.00 |
| Sat Flow, veh/h | 3483 | 3435 | 106 | 1753 | 3413 | 1585 | 1725 | 1885 | 1496 | 3483 | 1856 | 1547 |
| Grp Volume(v), veh/h | 598 | 555 | 579 | 121 | 784 | 0 | 85 | 135 | 200 | 563 | 68 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1742 | 1735 | 1807 | 1753 | 1706 | 1585 | 1725 | 1885 | 1496 | 1742 | 1856 | 1547 |
| Q Serve(g_s), s | 19.1 | 26.8 | 26.8 | 7.6 | 16.3 | 0.0 | 5.5 | 7.4 | 14.7 | 18.1 | 3.1 | 0.0 |
| Cycle Q Clear(g_c), s | 19.1 | 26.8 | 26.8 | 7.6 | 16.3 | 0.0 | 5.5 | 7.4 | 14.7 | 18.1 | 3.1 | 0.0 |
| Prop In Lane | 1.00 | | 0.06 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 648 | 755 | 786 | 145 | 1132 | | 107 | 308 | 245 | 622 | 520 | |
| V/C Ratio(X) | 0.92 | 0.74 | 0.74 | 0.84 | 0.69 | | 0.80 | 0.44 | 0.82 | 0.91 | 0.13 | |
| Avail Cap(c_a), veh/h | 672 | 755 | 786 | 169 | 1132 | | 182 | 397 | 315 | 672 | 553 | |
| HCM Platoon Ratio | 1.33 | 1.33 | 1.33 | 2.00 | 2.00 | 2.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.72 | 0.72 | 0.72 | 0.86 | 0.86 | 0.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.95 | 0.00 |
| Uniform Delay (d), s/veh | 42.1 | 19.2 | 19.3 | 46.8 | 15.6 | 0.0 | 52.8 | 43.0 | 46.0 | 45.9 | 30.7 | 0.0 |
| Incr Delay (d2), s/veh | 13.7 | 4.6 | 4.4 | 20.2 | 3.0 | 0.0 | 5.0 | 0.4 | 9.7 | 13.9 | 0.0 | 0.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 8.9 | 9.9 | 10.3 | 3.9 | 4.5 | 0.0 | 2.5 | 3.5 | 6.1 | 8.9 | 1.4 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 55.8 | 23.8 | 23.7 | 67.1 | 18.6 | 0.0 | 57.8 | 43.3 | 55.8 | 59.7 | 30.7 | 0.0 |
| LnGrp LOS | E | C | C | E | B | | E | D | E | E | C | |
| Approach Vol, veh/h | | 1732 | | | 905 | A | | 420 | | | 631 | A |
| Approach Delay, s/veh | | 34.8 | | | 25.1 | | | 52.2 | | | 56.6 | |
| Approach LOS | | C | | | C | | | D | | | E | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.4 | 53.6 | 24.4 | 22.6 | 25.2 | 41.8 | 11.1 | 35.9 |
| Change Period (Y+Rc), s | 4.0 | 5.0 | 4.0 | 4.0 | 4.0 | 5.0 | 4.0 | 4.0 |
| Max Green Setting (Gmax), s | 11.0 | 40.0 | 22.0 | 24.0 | 22.0 | 29.0 | 12.0 | 34.0 |
| Max Q Clear Time (g_c+I1), s | 9.6 | 28.8 | 20.1 | 16.7 | 21.1 | 18.3 | 7.5 | 5.1 |
| Green Ext Time (p_c), s | 0.0 | 5.4 | 0.3 | 0.4 | 0.1 | 3.9 | 0.0 | 0.2 |

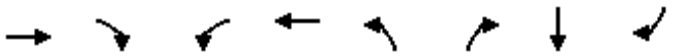
| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 38.1 |
| HCM 6th LOS | D |

**Notes**

Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

## 10: La Madrona Dr/Hwy 17 Off Ramp & Mt Hermon Rd/Mt. Hermon Rd

Timing Plan: AM Peak



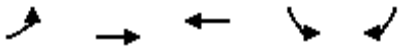
| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 1843 | 85 | 92 | 1190 | 199 | 236 | 51 | 275 |
| v/c Ratio | 1.00 | 0.10 | 0.93 | 0.70 | 0.40 | 0.54 | 0.22 | 0.80 |
| Control Delay | 45.2 | 5.5 | 122.3 | 22.9 | 41.2 | 10.9 | 39.0 | 44.6 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 45.2 | 5.5 | 122.3 | 22.9 | 41.2 | 10.9 | 39.0 | 44.6 |
| Queue Length 50th (ft) | 510 | 3 | 53 | 263 | 54 | 0 | 28 | 117 |
| Queue Length 95th (ft) | #1041 | 35 | #193 | 487 | 109 | 73 | 61 | 220 |
| Internal Link Dist (ft) | 1450 | | | 401 | | | 369 | |
| Turn Bay Length (ft) | | 100 | 190 | | 130 | 180 | | 350 |
| Base Capacity (vph) | 3177 | 1441 | 99 | 1937 | 676 | 505 | 544 | 844 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.58 | 0.06 | 0.93 | 0.61 | 0.29 | 0.47 | 0.09 | 0.33 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 0 | 1677 | 77 | 84 | 1083 | 0 | 181 | 0 | 215 | 5 | 42 | 250 |
| Future Volume (vph) | 0 | 1677 | 77 | 84 | 1083 | 0 | 181 | 0 | 215 | 5 | 42 | 250 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 4.0 | 4.0 | 4.0 | 4.0 | | 4.0 | | 4.0 | | 4.0 | 4.0 |
| Lane Util. Factor | | 0.95 | 1.00 | 1.00 | 0.95 | | 0.97 | | 1.00 | | 1.00 | 1.00 |
| Frpb, ped/bikes | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | | 1.00 | | 1.00 | 0.99 |
| Flpb, ped/bikes | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | | 1.00 | | 1.00 | 1.00 |
| Frt | | 1.00 | 0.85 | 1.00 | 1.00 | | 1.00 | | 0.85 | | 1.00 | 0.85 |
| Flt Protected | | 1.00 | 1.00 | 0.95 | 1.00 | | 0.95 | | 1.00 | | 1.00 | 1.00 |
| Satd. Flow (prot) | | 3505 | 1583 | 1719 | 3471 | | 3467 | | 1615 | | 1891 | 1499 |
| Flt Permitted | | 1.00 | 1.00 | 0.95 | 1.00 | | 0.95 | | 1.00 | | 1.00 | 1.00 |
| Satd. Flow (perm) | | 3505 | 1583 | 1719 | 3471 | | 3467 | | 1615 | | 1891 | 1499 |
| Peak-hour factor, PHF | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |
| Adj. Flow (vph) | 0 | 1843 | 85 | 92 | 1190 | 0 | 199 | 0 | 236 | 5 | 46 | 275 |
| RTOR Reduction (vph) | 0 | 0 | 35 | 0 | 0 | 0 | 0 | 0 | 202 | 0 | 0 | 41 |
| Lane Group Flow (vph) | 0 | 1843 | 50 | 92 | 1190 | 0 | 199 | 0 | 34 | 0 | 51 | 234 |
| Confl. Peds. (#/hr) | 1 | | | | | 1 | 1 | | | | | 1 |
| Confl. Bikes (#/hr) | | | | | | 1 | | | | | | |
| Heavy Vehicles (%) | 0% | 3% | 2% | 5% | 4% | 0% | 1% | 0% | 0% | 0% | 0% | 7% |
| Turn Type | | NA | Perm | Prot | NA | | Prot | | Perm | Split | NA | custom |
| Protected Phases | | 6 | | 5 | 2 | | 7 | | | 8 | 8 | 1 |
| Permitted Phases | | | 6 | | | | | | 7 | | | 8 |
| Actuated Green, G (s) | | 47.2 | 47.2 | 5.1 | 43.6 | | 12.7 | | 12.7 | | 9.6 | 18.8 |
| Effective Green, g (s) | | 48.5 | 48.5 | 5.3 | 44.9 | | 13.3 | | 13.3 | | 9.8 | 18.2 |
| Actuated g/C Ratio | | 0.52 | 0.52 | 0.06 | 0.48 | | 0.14 | | 0.14 | | 0.11 | 0.20 |
| Clearance Time (s) | | 5.3 | 5.3 | 4.2 | 5.3 | | 4.6 | | 4.6 | | 4.2 | 3.7 |
| Vehicle Extension (s) | | 3.5 | 3.5 | 3.0 | 3.5 | | 3.0 | | 3.0 | | 3.0 | 1.0 |
| Lane Grp Cap (vph) | | 1829 | 826 | 98 | 1677 | | 496 | | 231 | | 199 | 293 |
| v/s Ratio Prot | | c0.53 | | 0.05 | 0.34 | | c0.06 | | | | 0.03 | c0.08 |
| v/s Ratio Perm | | | 0.03 | | | | | | 0.02 | | | 0.08 |
| v/c Ratio | | 1.01 | 0.06 | 0.94 | 0.71 | | 0.40 | | 0.15 | | 0.26 | 0.80 |
| Uniform Delay, d1 | | 22.2 | 11.0 | 43.6 | 18.9 | | 36.2 | | 34.8 | | 38.2 | 35.6 |
| Progression Factor | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | | 1.00 | | 1.00 | 1.00 |
| Incremental Delay, d2 | | 22.9 | 0.0 | 70.4 | 1.5 | | 0.5 | | 0.3 | | 0.7 | 13.2 |
| Delay (s) | | 45.1 | 11.0 | 114.0 | 20.3 | | 36.7 | | 35.1 | | 38.9 | 48.8 |
| Level of Service | | D | B | F | C | | D | | D | | D | D |
| Approach Delay (s) | | 43.6 | | | 27.0 | | | 35.9 | | | 47.2 | |
| Approach LOS | | D | | | C | | | D | | | D | |

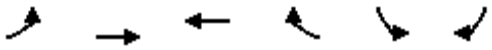
| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 37.7 | HCM 2000 Level of Service | D |
| HCM 2000 Volume to Capacity ratio | 0.87 | | |
| Actuated Cycle Length (s) | 92.9 | Sum of lost time (s) | 16.0 |
| Intersection Capacity Utilization | 73.7% | ICU Level of Service | D |
| Analysis Period (min) | 15 | | |
| c Critical Lane Group | | | |



| Lane Group | EBL | EBT | WBT | SBL | SBR |
|---|---|---|---|---|---|
| Lane Group Flow (vph) | 163 | 676 | 886 | 166 | 178 |
| v/c Ratio | 0.59 | 0.52 | 1.00 | 0.56 | 0.46 |
| Control Delay | 42.3 | 8.0 | 54.7 | 40.2 | 10.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 42.3 | 8.0 | 54.7 | 40.2 | 10.0 |
| Queue Length 50th (ft) | 79 | 135 | 432 | 80 | 3 |
| Queue Length 95th (ft) | 144 | 252 | #815 | 143 | 52 |
| Internal Link Dist (ft) | | 297 | 114 | 2513 | |
| Turn Bay Length (ft) | 295 | | | | 70 |
| Base Capacity (vph) | 644 | 1687 | 886 | 859 | 811 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.25 | 0.40 | 1.00 | 0.19 | 0.22 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Volume (veh/h) | 142 | 588 | 649 | 122 | 144 | 155 |
| Future Volume (veh/h) | 142 | 588 | 649 | 122 | 144 | 155 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 0.98 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 163 | 676 | 746 | 140 | 166 | 178 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 208 | 1316 | 794 | 149 | 272 | 242 |
| Arrive On Green | 0.12 | 0.70 | 0.52 | 0.52 | 0.15 | 0.15 |
| Sat Flow, veh/h | 1781 | 1870 | 1525 | 286 | 1781 | 1585 |
| Grp Volume(v), veh/h | 163 | 676 | 0 | 886 | 166 | 178 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 0 | 1812 | 1781 | 1585 |
| Q Serve(g_s), s | 6.7 | 12.6 | 0.0 | 34.6 | 6.6 | 8.1 |
| Cycle Q Clear(g_c), s | 6.7 | 12.6 | 0.0 | 34.6 | 6.6 | 8.1 |
| Prop In Lane | 1.00 | | | 0.16 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 208 | 1316 | 0 | 943 | 272 | 242 |
| V/C Ratio(X) | 0.78 | 0.51 | 0.00 | 0.94 | 0.61 | 0.74 |
| Avail Cap(c_a), veh/h | 710 | 1316 | 0 | 962 | 946 | 842 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 32.3 | 5.2 | 0.0 | 16.9 | 29.8 | 30.4 |
| Incr Delay (d2), s/veh | 6.3 | 0.7 | 0.0 | 16.8 | 2.7 | 5.2 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 3.2 | 3.8 | 0.0 | 16.8 | 2.9 | 0.3 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d),s/veh | 38.6 | 5.9 | 0.0 | 33.8 | 32.5 | 35.6 |
| LnGrp LOS | D | A | A | C | C | D |
| Approach Vol, veh/h | | 839 | 886 | | 344 | |
| Approach Delay, s/veh | | 12.2 | 33.8 | | 34.1 | |
| Approach LOS | | B | C | | C | |

| Timer - Assigned Phs | | 2 | | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | | 58.5 | | 16.8 | 13.8 | 44.7 |
| Change Period (Y+Rc), s | | 5.5 | | 5.3 | 5.0 | 5.5 |
| Max Green Setting (Gmax), s | | 40.0 | | 40.0 | 30.0 | 40.0 |
| Max Q Clear Time (g_c+I1), s | | 14.6 | | 10.1 | 8.7 | 36.6 |
| Green Ext Time (p_c), s | | 9.4 | | 1.4 | 0.4 | 2.6 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 25.1 |
| HCM 6th LOS | C |

| Intersection | |
|---|---|
| Int Delay, s/veh | 1.2 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 32 | 16 | 265 | 16 | 13 | 287 |
| Future Vol, veh/h | 32 | 16 | 265 | 16 | 13 | 287 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 19 | 19 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 93 | 93 | 93 | 93 | 93 | 93 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 34 | 17 | 285 | 17 | 14 | 309 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 650 | 313 | 0 | 0 | 321 | 0 |
| Stage 1 | 313 | - | - | - | - | - |
| Stage 2 | 337 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 434 | 727 | - | - | 1239 | - |
| Stage 1 | 741 | - | - | - | - | - |
| Stage 2 | 723 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 421 | 715 | - | - | 1219 | - |
| Mov Cap-2 Maneuver | 421 | - | - | - | - | - |
| Stage 1 | 729 | - | - | - | - | - |
| Stage 2 | 713 | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s | 13.2 | 0 | 0.3 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | 488 | 1219 | - |
| HCM Lane V/C Ratio | - | - | 0.106 | 0.011 | - |
| HCM Control Delay (s) | - | - | 13.2 | 8 | 0 |
| HCM Lane LOS | - | - | B | A | A |
| HCM 95th %tile Q(veh) | - | - | 0.4 | 0 | - |

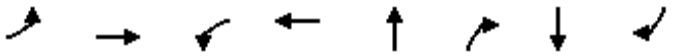
| Intersection | |
|---|---|
| Int Delay, s/veh | 0 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 0 | 281 | 0 | 0 | 300 |
| Future Vol, veh/h | 0 | 0 | 281 | 0 | 0 | 300 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 19 | 19 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 93 | 93 | 93 | 93 | 93 | 93 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 0 | 302 | 0 | 0 | 323 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 644 | 321 | 0 | 0 | 321 | 0 |
| Stage 1 | 321 | - | - | - | - | - |
| Stage 2 | 323 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 437 | 720 | - | - | 1239 | - |
| Stage 1 | 735 | - | - | - | - | - |
| Stage 2 | 734 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 430 | 709 | - | - | 1219 | - |
| Mov Cap-2 Maneuver | 430 | - | - | - | - | - |
| Stage 1 | 723 | - | - | - | - | - |
| Stage 2 | 734 | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s | 0 | 0 | 0 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | - | 1219 | - |
| HCM Lane V/C Ratio | - | - | - | - | - |
| HCM Control Delay (s) | - | - | 0 | 0 | - |
| HCM Lane LOS | - | - | A | A | - |
| HCM 95th %tile Q(veh) | - | - | - | 0 | - |



| Lane Group | EBL | EBT | WBL | WBT | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 21 | 694 | 344 | 1544 | 49 | 211 | 158 | 19 |
| v/c Ratio | 0.21 | 0.41 | 0.87 | 0.63 | 0.17 | 0.44 | 0.61 | 0.05 |
| Control Delay | 59.2 | 21.6 | 70.6 | 3.0 | 42.4 | 8.7 | 55.3 | 0.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 59.2 | 21.6 | 70.6 | 3.2 | 42.4 | 8.7 | 55.3 | 0.3 |
| Queue Length 50th (ft) | 16 | 179 | 230 | 51 | 32 | 0 | 113 | 0 |
| Queue Length 95th (ft) | 43 | 243 | m300 | 76 | 68 | 65 | 188 | 0 |
| Internal Link Dist (ft) | | 964 | | 397 | 1557 | | 382 | |
| Turn Bay Length (ft) | 170 | | 160 | | | 60 | | 130 |
| Base Capacity (vph) | 300 | 1709 | 466 | 2445 | 289 | 475 | 261 | 373 |
| Starvation Cap Reductn | 0 | 0 | 0 | 268 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.07 | 0.41 | 0.74 | 0.71 | 0.17 | 0.44 | 0.61 | 0.05 |

Intersection Summary

m Volume for 95th percentile queue is metered by upstream signal.

| Lane Group | EBL | EBT | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | |
| Traffic Volume (vph) | 21 | 651 | 337 | 1346 | 28 | 20 | 207 | 135 | 20 | 19 |
| Future Volume (vph) | 21 | 651 | 337 | 1346 | 28 | 20 | 207 | 135 | 20 | 19 |
| Turn Type | Prot | NA | Prot | NA | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 5 | 2 | 1 | 6 | | 8 | | | 4 | |
| Permitted Phases | | | | | 8 | | 8 | 4 | | 4 |
| Detector Phase | 5 | 2 | 1 | 6 | 8 | 8 | 8 | 4 | 4 | 4 |
| Switch Phase | | | | | | | | | | |
| Minimum Initial (s) | 6.0 | 10.0 | 6.0 | 10.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| Minimum Split (s) | 10.0 | 30.0 | 20.0 | 28.0 | 29.0 | 29.0 | 29.0 | 29.0 | 29.0 | 29.0 |
| Total Split (s) | 24.0 | 58.0 | 35.0 | 69.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 |
| Total Split (%) | 20.0% | 48.3% | 29.2% | 57.5% | 22.5% | 22.5% | 22.5% | 22.5% | 22.5% | 22.5% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 5.0 | 4.0 | 5.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | Max | Max | Max | Max | Max | Max |
| Act Effct Green (s) | 6.5 | 57.7 | 26.3 | 83.5 | | 23.0 | 23.0 | | 23.0 | 23.0 |
| Actuated g/C Ratio | 0.05 | 0.48 | 0.22 | 0.70 | | 0.19 | 0.19 | | 0.19 | 0.19 |
| v/c Ratio | 0.21 | 0.41 | 0.87 | 0.63 | | 0.17 | 0.44 | | 0.61 | 0.05 |
| Control Delay | 59.2 | 21.6 | 70.6 | 3.0 | | 42.4 | 8.7 | | 55.3 | 0.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.2 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 59.2 | 21.6 | 70.6 | 3.2 | | 42.4 | 8.7 | | 55.3 | 0.3 |
| LOS | E | C | E | A | | D | A | | E | A |
| Approach Delay | | 22.7 | | 15.5 | | 15.1 | | | 49.4 | |
| Approach LOS | | C | | B | | B | | | D | |

| Intersection Summary | |
|---|---|
| Cycle Length: 120 | |
| Actuated Cycle Length: 120 | |
| Offset: 73 (61%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow | |
| Natural Cycle: 80 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.87 | |
| Intersection Signal Delay: 19.1 | Intersection LOS: B |
| Intersection Capacity Utilization 79.3% | ICU Level of Service D |
| Analysis Period (min) 15 | |

Splits and Phases: 4: Lockewood Ln/Skypark Dr & Mt. Hermon Rd



| Intersection | |
|---|---|
| Int Delay, s/veh | 0 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 993 | 0 | 0 | 1851 | 0 | 0 |
| Future Vol, veh/h | 993 | 0 | 0 | 1851 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 7 | 7 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1079 | 0 | 0 | 2012 | 0 | 0 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | - | - | - | 547 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.94 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.32 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 481 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | - | - | - | 478 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s | 0 | 0 | 0 |
| HCM LOS | | | A |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT |
|---|---|---|---|---|
| Capacity (veh/h) | - | - | - | - |
| HCM Lane V/C Ratio | - | - | - | - |
| HCM Control Delay (s) | 0 | - | - | - |
| HCM Lane LOS | A | - | - | - |
| HCM 95th %tile Q(veh) | - | - | - | - |



| Lane Group | EBL | EBT | WBL | WBT | WBR | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 50 | 960 | 54 | 1690 | 163 | 171 | 46 | 238 | 50 |
| v/c Ratio | 0.52 | 0.46 | 0.51 | 0.79 | 0.17 | 0.89 | 0.10 | 0.96 | 0.11 |
| Control Delay | 61.8 | 12.8 | 81.6 | 11.5 | 3.5 | 85.4 | 0.4 | 90.6 | 0.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 61.8 | 12.8 | 81.6 | 11.5 | 3.5 | 85.4 | 0.4 | 90.6 | 0.5 |
| Queue Length 50th (ft) | 39 | 176 | 43 | 193 | 6 | 124 | 0 | 176 | 0 |
| Queue Length 95th (ft) | m70 | 226 | m55 | m394 | m16 | #250 | 0 | #327 | 2 |
| Internal Link Dist (ft) | | 297 | | 439 | | 547 | | 549 | |
| Turn Bay Length (ft) | 70 | | 140 | | 105 | | 40 | | 30 |
| Base Capacity (vph) | 105 | 2105 | 135 | 2143 | 963 | 209 | 516 | 272 | 499 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.48 | 0.46 | 0.40 | 0.79 | 0.17 | 0.82 | 0.09 | 0.88 | 0.10 |

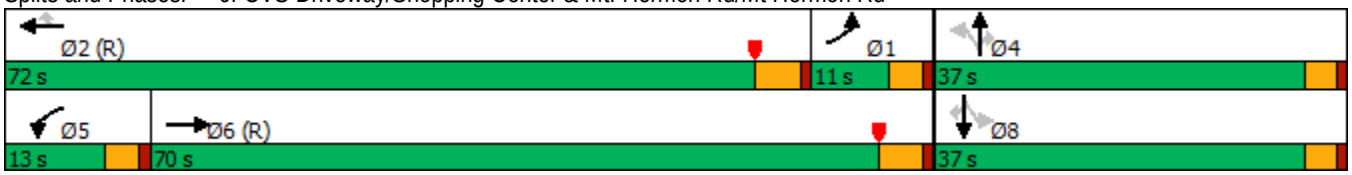
Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.
m Volume for 95th percentile queue is metered by upstream signal.

| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | |
| Traffic Volume (vph) | 49 | 897 | 53 | 1656 | 160 | 146 | 22 | 45 | 206 | 27 | 49 |
| Future Volume (vph) | 49 | 897 | 53 | 1656 | 160 | 146 | 22 | 45 | 206 | 27 | 49 |
| Turn Type | Prot | NA | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 1 | 6 | 5 | 2 | | | 4 | | | 8 | |
| Permitted Phases | | | | | 2 | 4 | | 4 | 8 | | 8 |
| Detector Phase | 1 | 6 | 5 | 2 | 2 | 4 | 4 | 4 | 8 | 8 | 8 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 4.0 | 10.0 | 10.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Minimum Split (s) | 8.0 | 27.0 | 8.0 | 27.0 | 27.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 |
| Total Split (s) | 11.0 | 70.0 | 13.0 | 72.0 | 72.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 |
| Total Split (%) | 9.2% | 58.3% | 10.8% | 60.0% | 60.0% | 30.8% | 30.8% | 30.8% | 30.8% | 30.8% | 30.8% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 5.0 | 4.0 | 5.0 | 5.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lag | Lag | Lead | Lead | Lead | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 6.4 | 71.3 | 7.1 | 72.0 | 72.0 | | 30.2 | 30.2 | | 30.2 | 30.2 |
| Actuated g/C Ratio | 0.05 | 0.59 | 0.06 | 0.60 | 0.60 | | 0.25 | 0.25 | | 0.25 | 0.25 |
| v/c Ratio | 0.52 | 0.46 | 0.51 | 0.79 | 0.17 | | 0.89 | 0.10 | | 0.96 | 0.11 |
| Control Delay | 61.8 | 12.8 | 81.6 | 11.5 | 3.5 | | 85.4 | 0.4 | | 90.6 | 0.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 61.8 | 12.8 | 81.6 | 11.5 | 3.5 | | 85.4 | 0.4 | | 90.6 | 0.5 |
| LOS | E | B | F | B | A | | F | A | | F | A |
| Approach Delay | | 15.2 | | 12.8 | | | 67.4 | | | 74.9 | |
| Approach LOS | | B | | B | | | E | | | E | |

| Intersection Summary | |
|---|---|
| Cycle Length: 120 | |
| Actuated Cycle Length: 120 | |
| Offset: 50 (42%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow | |
| Natural Cycle: 75 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.96 | |
| Intersection Signal Delay: 22.2 | Intersection LOS: C |
| Intersection Capacity Utilization 76.1% | ICU Level of Service D |
| Analysis Period (min) 15 | |

Splits and Phases: 6: CVS Driveway/Shopping Center & Mt. Hermon Rd/Mt Hermon Rd





| Lane Group | EBL | EBT | WBL | WBT | WBR | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 206 | 1253 | 130 | 1827 | 273 | 67 | 74 | 302 | 333 |
| v/c Ratio | 0.88 | 0.60 | 0.70 | 0.91 | 0.31 | 0.39 | 0.20 | 1.21 | 0.81 |
| Control Delay | 80.6 | 17.0 | 78.6 | 10.1 | 1.2 | 49.7 | 10.3 | 166.5 | 44.5 |
| Queue Delay | 0.0 | 0.1 | 0.0 | 37.1 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 80.6 | 17.1 | 78.6 | 47.2 | 1.9 | 49.7 | 10.3 | 166.5 | 44.5 |
| Queue Length 50th (ft) | 158 | 294 | 106 | 378 | 13 | 45 | 0 | ~285 | 159 |
| Queue Length 95th (ft) | m#273 | 410 | m114 | m25 | m0 | 93 | 41 | #464 | #306 |
| Internal Link Dist (ft) | | 532 | | 327 | | 464 | | 1400 | |
| Turn Bay Length (ft) | 175 | | 150 | | 130 | | 30 | | 50 |
| Base Capacity (vph) | 250 | 2096 | 255 | 1998 | 868 | 170 | 374 | 250 | 413 |
| Starvation Cap Reductn | 0 | 0 | 0 | 306 | 323 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 131 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.82 | 0.64 | 0.51 | 1.08 | 0.50 | 0.39 | 0.20 | 1.21 | 0.81 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.

| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | |
| Traffic Volume (vph) | 200 | 1182 | 126 | 1772 | 265 | 36 | 29 | 72 | 256 | 37 | 323 |
| Future Volume (vph) | 200 | 1182 | 126 | 1772 | 265 | 36 | 29 | 72 | 256 | 37 | 323 |
| Turn Type | Prot | NA | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 1 | 6 | 5 | 2 | | | 4 | | | 8 | |
| Permitted Phases | | | | | 2 | 4 | | 4 | 8 | | 8 |
| Detector Phase | 1 | 6 | 5 | 2 | 2 | 4 | 4 | 4 | 8 | 8 | 8 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 4.0 | 10.0 | 10.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Minimum Split (s) | 8.0 | 27.0 | 8.0 | 27.0 | 27.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 |
| Total Split (s) | 21.0 | 71.0 | 21.0 | 71.0 | 71.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 |
| Total Split (%) | 17.5% | 59.2% | 17.5% | 59.2% | 59.2% | 23.3% | 23.3% | 23.3% | 23.3% | 23.3% | 23.3% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 5.0 | 4.0 | 5.0 | 5.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 15.9 | 70.7 | 12.3 | 67.1 | 67.1 | | 24.0 | 24.0 | | 24.0 | 24.0 |
| Actuated g/C Ratio | 0.13 | 0.59 | 0.10 | 0.56 | 0.56 | | 0.20 | 0.20 | | 0.20 | 0.20 |
| v/c Ratio | 0.88 | 0.60 | 0.70 | 0.91 | 0.31 | | 0.39 | 0.20 | | 1.21 | 0.81 |
| Control Delay | 80.6 | 17.0 | 78.6 | 10.1 | 1.2 | | 49.7 | 10.3 | | 166.5 | 44.5 |
| Queue Delay | 0.0 | 0.1 | 0.0 | 37.1 | 0.7 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 80.6 | 17.1 | 78.6 | 47.2 | 1.9 | | 49.7 | 10.3 | | 166.5 | 44.5 |
| LOS | F | B | E | D | A | | D | B | | F | D |
| Approach Delay | | 26.1 | | 43.5 | | | 29.0 | | | 102.5 | |
| Approach LOS | | C | | D | | | C | | | F | |

| Intersection Summary | |
|---|---|
| Cycle Length: 120 | |
| Actuated Cycle Length: 120 | |
| Offset: 32 (27%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow | |
| Natural Cycle: 100 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 1.21 | |
| Intersection Signal Delay: 45.7 | Intersection LOS: D |
| Intersection Capacity Utilization 93.7% | ICU Level of Service F |
| Analysis Period (min) 15 | |

Splits and Phases: 7: Driveway/Kings Village Rd & Mt Hermon Rd





| Lane Group | EBL | EBT | WBL | WBT | WBR | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 67 | 1583 | 72 | 2146 | 328 | 17 | 23 | 245 | 83 |
| v/c Ratio | 0.54 | 0.73 | 0.55 | 0.97 | 0.31 | 0.05 | 0.06 | 0.83 | 0.22 |
| Control Delay | 66.7 | 17.2 | 54.5 | 17.5 | 3.2 | 33.6 | 0.8 | 66.9 | 15.6 |
| Queue Delay | 0.0 | 0.1 | 0.0 | 14.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 66.7 | 17.3 | 54.5 | 31.6 | 3.2 | 33.6 | 0.8 | 66.9 | 15.6 |
| Queue Length 50th (ft) | 52 | 281 | 56 | 345 | 26 | 10 | 0 | 182 | 17 |
| Queue Length 95th (ft) | m85 | m618 | m48 | m#300 | m14 | 28 | 2 | 255 | 55 |
| Internal Link Dist (ft) | | 327 | | 893 | | 496 | | 475 | |
| Turn Bay Length (ft) | 80 | | 185 | | | | 30 | | 30 |
| Base Capacity (vph) | 240 | 2178 | 240 | 2211 | 1043 | 468 | 514 | 407 | 511 |
| Starvation Cap Reductn | 0 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 128 | 0 | 0 | 0 | 0 | 1 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.28 | 0.74 | 0.30 | 1.03 | 0.31 | 0.04 | 0.04 | 0.60 | 0.16 |

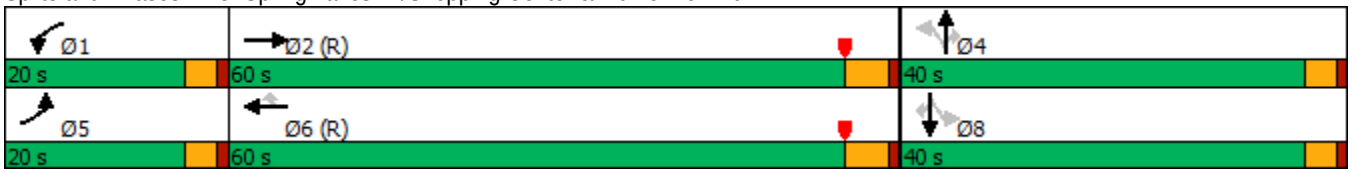
Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.
m Volume for 95th percentile queue is metered by upstream signal.

| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | |
| Traffic Volume (vph) | 64 | 1506 | 69 | 2060 | 315 | 11 | 6 | 22 | 229 | 6 | 80 |
| Future Volume (vph) | 64 | 1506 | 69 | 2060 | 315 | 11 | 6 | 22 | 229 | 6 | 80 |
| Turn Type | Prot | NA | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 5 | 2 | 1 | 6 | | | 4 | | | 8 | |
| Permitted Phases | | | | | 6 | 4 | | 4 | 8 | | 8 |
| Detector Phase | 5 | 2 | 1 | 6 | 6 | 4 | 4 | 4 | 8 | 8 | 8 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 4.0 | 10.0 | 10.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Minimum Split (s) | 8.0 | 30.0 | 8.0 | 30.0 | 30.0 | 35.0 | 35.0 | 35.0 | 26.0 | 26.0 | 26.0 |
| Total Split (s) | 20.0 | 60.0 | 20.0 | 60.0 | 60.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| Total Split (%) | 16.7% | 50.0% | 16.7% | 50.0% | 50.0% | 33.3% | 33.3% | 33.3% | 33.3% | 33.3% | 33.3% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 5.0 | 4.0 | 5.0 | 5.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 8.4 | 74.0 | 8.7 | 74.3 | 74.3 | | 26.1 | 26.1 | | 26.1 | 26.1 |
| Actuated g/C Ratio | 0.07 | 0.62 | 0.07 | 0.62 | 0.62 | | 0.22 | 0.22 | | 0.22 | 0.22 |
| v/c Ratio | 0.54 | 0.73 | 0.55 | 0.97 | 0.31 | | 0.05 | 0.06 | | 0.83 | 0.22 |
| Control Delay | 66.7 | 17.2 | 54.5 | 17.5 | 3.2 | | 33.6 | 0.8 | | 66.9 | 15.6 |
| Queue Delay | 0.0 | 0.1 | 0.0 | 14.1 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 66.7 | 17.3 | 54.5 | 31.6 | 3.2 | | 33.6 | 0.8 | | 66.9 | 15.6 |
| LOS | E | B | D | C | A | | C | A | | E | B |
| Approach Delay | | 19.3 | | 28.6 | | | 14.7 | | | 53.9 | |
| Approach LOS | | B | | C | | | B | | | D | |

| Intersection Summary | |
|---|---|
| Cycle Length: 120 | |
| Actuated Cycle Length: 120 | |
| Offset: 20 (17%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow | |
| Natural Cycle: 120 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.97 | |
| Intersection Signal Delay: 26.9 | Intersection LOS: C |
| Intersection Capacity Utilization 84.5% | ICU Level of Service E |
| Analysis Period (min) 15 | |

Splits and Phases: 8: Spring Lakes Dr/Shopping Center & Mt Hermon Rd





| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 665 | 1137 | 186 | 1516 | 478 | 109 | 70 | 85 | 525 | 95 | 847 |
| v/c Ratio | 1.35 | 0.81 | 0.96 | 1.16 | 0.62 | 1.45 | 0.19 | 0.21 | 1.01 | 0.17 | 1.33 |
| Control Delay | 210.6 | 35.1 | 104.6 | 113.4 | 16.9 | 303.7 | 42.4 | 3.3 | 92.7 | 32.0 | 187.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 210.6 | 35.1 | 104.6 | 113.4 | 16.9 | 303.7 | 42.4 | 3.3 | 92.7 | 32.0 | 187.0 |
| Queue Length 50th (ft) | ~359 | 232 | 153 | ~714 | 67 | ~115 | 46 | 0 | ~214 | 54 | ~723 |
| Queue Length 95th (ft) | #476 | 400 | m#288 | #861 | 270 | #234 | 89 | 15 | #330 | 98 | #970 |
| Internal Link Dist (ft) | | 893 | | 795 | | | 318 | | | 505 | |
| Turn Bay Length (ft) | 300 | | 275 | | 100 | 190 | | 150 | 220 | | |
| Base Capacity (vph) | 491 | 1401 | 193 | 1310 | 766 | 75 | 364 | 406 | 520 | 570 | 635 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 1.35 | 0.81 | 0.96 | 1.16 | 0.62 | 1.45 | 0.19 | 0.21 | 1.01 | 0.17 | 1.33 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.

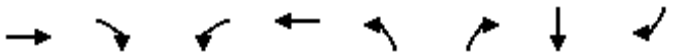
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 645 | 1011 | 92 | 180 | 1471 | 464 | 106 | 68 | 82 | 509 | 92 | 822 |
| Future Volume (veh/h) | 645 | 1011 | 92 | 180 | 1471 | 464 | 106 | 68 | 82 | 509 | 92 | 822 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.99 | 1.00 | | 1.00 | 1.00 | | 0.98 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1885 | 1870 | 1885 | 1885 | 1885 | 1885 | 1900 | 1900 | 1900 | 1885 | 1900 | 1885 |
| Adj Flow Rate, veh/h | 665 | 1042 | 95 | 186 | 1516 | 0 | 109 | 70 | 85 | 525 | 95 | 0 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 1 | 2 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 |
| Cap, veh/h | 493 | 1685 | 154 | 195 | 1715 | | 75 | 151 | 126 | 522 | 357 | |
| Arrive On Green | 0.19 | 0.68 | 0.68 | 0.07 | 0.32 | 0.00 | 0.04 | 0.08 | 0.08 | 0.15 | 0.19 | 0.00 |
| Sat Flow, veh/h | 3483 | 3291 | 300 | 1795 | 3582 | 1598 | 1810 | 1900 | 1580 | 3483 | 1900 | 1598 |
| Grp Volume(v), veh/h | 665 | 562 | 575 | 186 | 1516 | 0 | 109 | 70 | 85 | 525 | 95 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1742 | 1777 | 1814 | 1795 | 1791 | 1598 | 1810 | 1900 | 1580 | 1742 | 1900 | 1598 |
| Q Serve(g_s), s | 17.0 | 20.9 | 20.9 | 12.4 | 48.2 | 0.0 | 5.0 | 4.2 | 6.3 | 18.0 | 5.1 | 0.0 |
| Cycle Q Clear(g_c), s | 17.0 | 20.9 | 20.9 | 12.4 | 48.2 | 0.0 | 5.0 | 4.2 | 6.3 | 18.0 | 5.1 | 0.0 |
| Prop In Lane | 1.00 | | 0.17 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 493 | 910 | 929 | 195 | 1715 | | 75 | 151 | 126 | 522 | 357 | |
| V/C Ratio(X) | 1.35 | 0.62 | 0.62 | 0.96 | 0.88 | | 1.45 | 0.46 | 0.68 | 1.00 | 0.27 | |
| Avail Cap(c_a), veh/h | 493 | 910 | 929 | 195 | 1715 | | 75 | 364 | 303 | 522 | 570 | |
| HCM Platoon Ratio | 1.33 | 1.33 | 1.33 | 0.67 | 0.67 | 0.67 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.63 | 0.63 | 0.63 | 0.68 | 0.68 | 0.00 | 1.00 | 1.00 | 1.00 | 0.88 | 0.88 | 0.00 |
| Uniform Delay (d), s/veh | 48.7 | 12.7 | 12.7 | 55.4 | 37.6 | 0.0 | 57.5 | 52.8 | 53.7 | 51.0 | 41.7 | 0.0 |
| Incr Delay (d2), s/veh | 164.9 | 2.0 | 2.0 | 41.0 | 5.0 | 0.0 | 260.2 | 0.8 | 2.4 | 38.1 | 0.1 | 0.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 18.3 | 6.8 | 7.0 | 8.0 | 22.9 | 0.0 | 7.7 | 2.1 | 0.1 | 10.5 | 2.4 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 213.6 | 14.7 | 14.6 | 96.4 | 42.6 | 0.0 | 317.7 | 53.6 | 56.1 | 89.1 | 41.8 | 0.0 |
| LnGrp LOS | F | B | B | F | D | | F | D | E | F | D | |
| Approach Vol, veh/h | | 1802 | | | 1702 | A | | 264 | | | 620 | A |
| Approach Delay, s/veh | | 88.1 | | | 48.4 | | | 163.5 | | | 81.9 | |
| Approach LOS | | F | | | D | | | F | | | F | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 17.0 | 66.5 | 22.0 | 14.5 | 21.0 | 62.5 | 9.0 | 27.5 |
| Change Period (Y+Rc), s | 4.0 | 5.0 | 4.0 | 5.0 | 4.0 | 5.0 | 4.0 | 5.0 |
| Max Green Setting (Gmax), s | 13.0 | 48.0 | 18.0 | 23.0 | 17.0 | 44.0 | 5.0 | 36.0 |
| Max Q Clear Time (g_c+I1), s | 14.4 | 22.9 | 20.0 | 8.3 | 19.0 | 50.2 | 7.0 | 7.1 |
| Green Ext Time (p_c), s | 0.0 | 8.2 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.3 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 76.4 |
| HCM 6th LOS | E |

**Notes**

Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

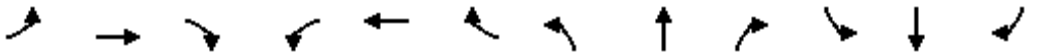


| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 1526 | 161 | 102 | 1414 | 141 | 140 | 71 | 600 |
| v/c Ratio | 0.68 | 0.16 | 1.46 | 1.01 | 0.41 | 0.49 | 0.39 | 0.95 |
| Control Delay | 18.6 | 6.9 | 307.0 | 65.5 | 60.3 | 15.7 | 60.5 | 59.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 18.6 | 6.9 | 307.0 | 65.5 | 60.3 | 15.7 | 60.5 | 59.5 |
| Queue Length 50th (ft) | 383 | 25 | ~115 | ~651 | 57 | 0 | 57 | 412 |
| Queue Length 95th (ft) | 703 | 80 | #278 | #1041 | 105 | 69 | 107 | 590 |
| Internal Link Dist (ft) | 1456 | | | 401 | | | 369 | |
| Turn Bay Length (ft) | | 100 | 190 | | 130 | 180 | | 350 |
| Base Capacity (vph) | 2365 | 1070 | 70 | 1401 | 476 | 338 | 382 | 681 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.65 | 0.15 | 1.46 | 1.01 | 0.30 | 0.41 | 0.19 | 0.88 |

Intersection Summary

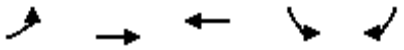
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Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



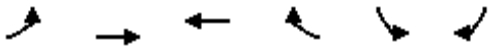
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 0 | 1450 | 153 | 97 | 1343 | 0 | 134 | 0 | 133 | 13 | 54 | 570 |
| Future Volume (vph) | 0 | 1450 | 153 | 97 | 1343 | 0 | 134 | 0 | 133 | 13 | 54 | 570 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 5.3 | 5.3 | 4.2 | 5.3 | | 4.6 | | 4.6 | | 4.2 | 3.7 |
| Lane Util. Factor | | 0.95 | 1.00 | 1.00 | 0.95 | | 0.97 | | 1.00 | | 1.00 | 1.00 |
| Frpb, ped/bikes | | 1.00 | 0.98 | 1.00 | 1.00 | | 1.00 | | 1.00 | | 1.00 | 1.00 |
| Flpb, ped/bikes | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | | 1.00 | | 1.00 | 1.00 |
| Frt | | 1.00 | 0.85 | 1.00 | 1.00 | | 1.00 | | 0.85 | | 1.00 | 0.85 |
| Flt Protected | | 1.00 | 1.00 | 0.95 | 1.00 | | 0.95 | | 1.00 | | 0.99 | 1.00 |
| Satd. Flow (prot) | | 3539 | 1565 | 1770 | 3574 | | 3502 | | 1599 | | 1852 | 1578 |
| Flt Permitted | | 1.00 | 1.00 | 0.95 | 1.00 | | 0.95 | | 1.00 | | 0.99 | 1.00 |
| Satd. Flow (perm) | | 3539 | 1565 | 1770 | 3574 | | 3502 | | 1599 | | 1852 | 1578 |
| Peak-hour factor, PHF | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.91 | 0.95 | 0.95 |
| Adj. Flow (vph) | 0 | 1526 | 161 | 102 | 1414 | 0 | 141 | 0 | 140 | 14 | 57 | 600 |
| RTOR Reduction (vph) | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 126 | 0 | 0 | 36 |
| Lane Group Flow (vph) | 0 | 1526 | 134 | 102 | 1414 | 0 | 141 | 0 | 14 | 0 | 71 | 564 |
| Confl. Peds. (#/hr) | | | | | | | 2 | | | | | 2 |
| Confl. Bikes (#/hr) | | | 2 | | | 1 | | | | | | |
| Heavy Vehicles (%) | 0% | 2% | 1% | 2% | 1% | 0% | 0% | 0% | 1% | 8% | 0% | 2% |
| Turn Type | | NA | Perm | Prot | NA | | Prot | | Perm | Perm | NA | custom |
| Protected Phases | | 6 | | 5 | 2 | | 7 | | | | 8 | 1 |
| Permitted Phases | | | 6 | | | | | | 7 | 8 | | 8 |
| Actuated Green, G (s) | | 80.5 | 80.5 | 5.1 | 49.7 | | 12.6 | | 12.6 | | 11.0 | 47.4 |
| Effective Green, g (s) | | 80.5 | 80.5 | 5.1 | 49.7 | | 12.6 | | 12.6 | | 11.0 | 47.4 |
| Actuated g/C Ratio | | 0.63 | 0.63 | 0.04 | 0.39 | | 0.10 | | 0.10 | | 0.09 | 0.37 |
| Clearance Time (s) | | 5.3 | 5.3 | 4.2 | 5.3 | | 4.6 | | 4.6 | | 4.2 | 3.7 |
| Vehicle Extension (s) | | 3.5 | 3.5 | 3.0 | 3.5 | | 3.0 | | 3.0 | | 3.0 | 1.0 |
| Lane Grp Cap (vph) | | 2234 | 988 | 70 | 1393 | | 346 | | 158 | | 159 | 586 |
| v/s Ratio Prot | | 0.43 | | c0.06 | c0.40 | | c0.04 | | | | | c0.27 |
| v/s Ratio Perm | | | 0.09 | | | | | | 0.01 | | 0.04 | 0.08 |
| v/c Ratio | | 0.68 | 0.14 | 1.46 | 1.02 | | 0.41 | | 0.09 | | 0.45 | 0.96 |
| Uniform Delay, d1 | | 15.2 | 9.5 | 61.2 | 38.9 | | 53.9 | | 52.2 | | 55.4 | 39.2 |
| Progression Factor | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | | 1.00 | | 1.00 | 1.00 |
| Incremental Delay, d2 | | 0.9 | 0.1 | 268.5 | 27.9 | | 0.8 | | 0.2 | | 2.0 | 27.5 |
| Delay (s) | | 16.1 | 9.5 | 329.7 | 66.8 | | 54.7 | | 52.5 | | 57.4 | 66.7 |
| Level of Service | | B | A | F | E | | D | | D | | E | E |
| Approach Delay (s) | | 15.5 | | | 84.5 | | | 53.6 | | | 65.7 | |
| Approach LOS | | B | | | F | | | D | | | E | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 51.4 | HCM 2000 Level of Service | D |
| HCM 2000 Volume to Capacity ratio | 0.93 | | |
| Actuated Cycle Length (s) | 127.5 | Sum of lost time (s) | 18.3 |
| Intersection Capacity Utilization | 87.5% | ICU Level of Service | E |
| Analysis Period (min) | 15 | | |
| c Critical Lane Group | | | |



| Lane Group | EBL | EBT | WBT | SBL | SBR |
|---|---|---|---|---|---|
| Lane Group Flow (vph) | 119 | 794 | 432 | 208 | 42 |
| v/c Ratio | 0.41 | 0.71 | 0.58 | 0.52 | 0.11 |
| Control Delay | 33.5 | 13.5 | 20.3 | 30.3 | 12.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 33.5 | 13.5 | 20.3 | 30.3 | 12.9 |
| Queue Length 50th (ft) | 42 | 189 | 130 | 71 | 3 |
| Queue Length 95th (ft) | 115 | 382 | 270 | 174 | 31 |
| Internal Link Dist (ft) | | 358 | 271 | 2509 | |
| Turn Bay Length (ft) | 295 | | | | 70 |
| Base Capacity (vph) | 849 | 1794 | 1139 | 1132 | 994 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.14 | 0.44 | 0.38 | 0.18 | 0.04 |

Intersection Summary



| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Volume (veh/h) | 111 | 738 | 246 | 155 | 193 | 39 |
| Future Volume (veh/h) | 111 | 738 | 246 | 155 | 193 | 39 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 119 | 794 | 265 | 167 | 208 | 42 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 160 | 1112 | 423 | 267 | 300 | 267 |
| Arrive On Green | 0.09 | 0.59 | 0.39 | 0.39 | 0.17 | 0.17 |
| Sat Flow, veh/h | 1781 | 1870 | 1073 | 676 | 1781 | 1585 |
| Grp Volume(v), veh/h | 119 | 794 | 0 | 432 | 208 | 42 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 0 | 1749 | 1781 | 1585 |
| Q Serve(g_s), s | 3.0 | 13.6 | 0.0 | 9.0 | 5.0 | 1.0 |
| Cycle Q Clear(g_c), s | 3.0 | 13.6 | 0.0 | 9.0 | 5.0 | 1.0 |
| Prop In Lane | 1.00 | | | 0.39 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 160 | 1112 | 0 | 690 | 300 | 267 |
| V/C Ratio(X) | 0.74 | 0.71 | 0.00 | 0.63 | 0.69 | 0.16 |
| Avail Cap(c_a), veh/h | 1174 | 1644 | 0 | 1537 | 1566 | 1393 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 20.2 | 6.5 | 0.0 | 11.1 | 17.8 | 16.2 |
| Incr Delay (d2), s/veh | 6.6 | 1.8 | 0.0 | 2.0 | 3.5 | 0.3 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.4 | 3.7 | 0.0 | 3.1 | 2.1 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d),s/veh | 26.8 | 8.4 | 0.0 | 13.1 | 21.3 | 16.5 |
| LnGrp LOS | C | A | A | B | C | B |
| Approach Vol, veh/h | | 913 | 432 | | 250 | |
| Approach Delay, s/veh | | 10.8 | 13.1 | | 20.5 | |
| Approach LOS | | B | B | | C | |

| Timer - Assigned Phs | | 2 | | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | | 32.5 | | 13.0 | 9.1 | 23.5 |
| Change Period (Y+Rc), s | | 5.5 | | 5.3 | 5.0 | 5.5 |
| Max Green Setting (Gmax), s | | 40.0 | | 40.0 | 30.0 | 40.0 |
| Max Q Clear Time (g_c+I1), s | | 15.6 | | 7.0 | 5.0 | 11.0 |
| Green Ext Time (p_c), s | | 11.4 | | 1.0 | 0.3 | 5.8 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 12.9 |
| HCM 6th LOS | B |

| Intersection | |
|---|---|
| Int Delay, s/veh | 1.1 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 31 | 9 | 266 | 35 | 8 | 171 |
| Future Vol, veh/h | 31 | 9 | 266 | 35 | 8 | 171 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 9 | 9 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 84 | 84 | 84 | 84 | 84 | 84 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 37 | 11 | 317 | 42 | 10 | 204 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 571 | 347 | 0 | 0 | 368 | 0 |
| Stage 1 | 347 | - | - | - | - | - |
| Stage 2 | 224 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 482 | 696 | - | - | 1191 | - |
| Stage 1 | 716 | - | - | - | - | - |
| Stage 2 | 813 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 474 | 691 | - | - | 1182 | - |
| Mov Cap-2 Maneuver | 474 | - | - | - | - | - |
| Stage 1 | 711 | - | - | - | - | - |
| Stage 2 | 805 | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s | 12.8 | 0 | 0.4 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | 510 | 1182 | - |
| HCM Lane V/C Ratio | - | - | 0.093 | 0.008 | - |
| HCM Control Delay (s) | - | - | 12.8 | 8.1 | 0 |
| HCM Lane LOS | - | - | B | A | A |
| HCM 95th %tile Q(veh) | - | - | 0.3 | 0 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.5 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 6 | 14 | 273 | 2 | 5 | 173 |
| Future Vol, veh/h | 6 | 14 | 273 | 2 | 5 | 173 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 9 | 9 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 84 | 84 | 84 | 84 | 84 | 84 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 7 | 17 | 325 | 2 | 6 | 206 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 553 | 335 | 0 | 0 | 336 | 0 |
| Stage 1 | 335 | - | - | - | - | - |
| Stage 2 | 218 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 494 | 707 | - | - | 1223 | - |
| Stage 1 | 725 | - | - | - | - | - |
| Stage 2 | 818 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 488 | 702 | - | - | 1214 | - |
| Mov Cap-2 Maneuver | 488 | - | - | - | - | - |
| Stage 1 | 720 | - | - | - | - | - |
| Stage 2 | 813 | - | - | - | - | - |

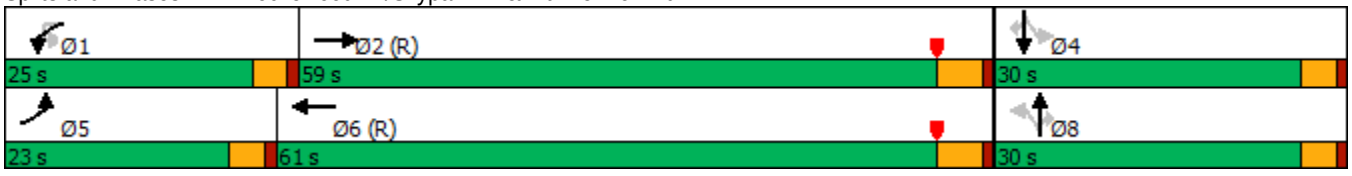
| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s | 11 | 0 | 0.2 |
| HCM LOS | B | | |

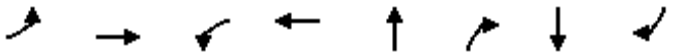
| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | 620 | 1214 | - |
| HCM Lane V/C Ratio | - | - | 0.038 | 0.005 | - |
| HCM Control Delay (s) | - | - | 11 | 8 | 0 |
| HCM Lane LOS | - | - | B | A | A |
| HCM 95th %tile Q(veh) | - | - | 0.1 | 0 | - |

| Lane Group | EBL | EBT | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | |
| Traffic Volume (vph) | 7 | 1019 | 168 | 606 | 38 | 8 | 294 | 123 | 20 | 8 |
| Future Volume (vph) | 7 | 1019 | 168 | 606 | 38 | 8 | 294 | 123 | 20 | 8 |
| Turn Type | Prot | NA | Prot | NA | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 5 | 2 | 1 | 6 | | 8 | | | 4 | |
| Permitted Phases | | | | | 8 | | 8 | 4 | | 4 |
| Detector Phase | 5 | 2 | 1 | 6 | 8 | 8 | 8 | 4 | 4 | 4 |
| Switch Phase | | | | | | | | | | |
| Minimum Initial (s) | 6.0 | 10.0 | 6.0 | 10.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| Minimum Split (s) | 20.0 | 30.0 | 20.0 | 28.0 | 29.0 | 29.0 | 29.0 | 29.0 | 29.0 | 29.0 |
| Total Split (s) | 23.0 | 59.0 | 25.0 | 61.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| Total Split (%) | 20.2% | 51.8% | 21.9% | 53.5% | 26.3% | 26.3% | 26.3% | 26.3% | 26.3% | 26.3% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | -1.0 | 0.0 | -1.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | Max | C-Max | None | C-Max | Max | Max | Max | Max | Max | Max |
| Act Effct Green (s) | 19.0 | 60.0 | 16.0 | 57.0 | | 26.0 | 26.0 | | 26.0 | 26.0 |
| Actuated g/C Ratio | 0.17 | 0.53 | 0.14 | 0.50 | | 0.23 | 0.23 | | 0.23 | 0.23 |
| v/c Ratio | 0.03 | 0.66 | 0.75 | 0.49 | | 0.17 | 0.54 | | 0.51 | 0.02 |
| Control Delay | 40.1 | 22.4 | 58.9 | 22.2 | | 37.1 | 8.8 | | 45.3 | 0.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 40.1 | 22.4 | 58.9 | 22.2 | | 37.1 | 8.8 | | 45.3 | 0.1 |
| LOS | D | C | E | C | | D | A | | D | A |
| Approach Delay | | 22.5 | | 29.5 | | 12.7 | | | 42.9 | |
| Approach LOS | | C | | C | | B | | | D | |

| Intersection Summary | |
|---|---|
| Cycle Length: 114 | |
| Actuated Cycle Length: 114 | |
| Offset: 32 (28%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow | |
| Natural Cycle: 80 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.75 | |
| Intersection Signal Delay: 24.9 | Intersection LOS: C |
| Intersection Capacity Utilization 91.3% | ICU Level of Service F |
| Analysis Period (min) 15 | |

Splits and Phases: 4: Lockewood Ln/Skypark Dr & Mt. Hermon Rd





| Lane Group | EBL | EBT | WBL | WBT | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 8 | 1197 | 189 | 768 | 52 | 330 | 160 | 9 |
| v/c Ratio | 0.03 | 0.66 | 0.75 | 0.49 | 0.17 | 0.54 | 0.51 | 0.02 |
| Control Delay | 40.1 | 22.4 | 58.9 | 22.2 | 37.1 | 8.8 | 45.3 | 0.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 40.1 | 22.4 | 58.9 | 22.2 | 37.1 | 8.8 | 45.3 | 0.1 |
| Queue Length 50th (ft) | 5 | 323 | 145 | 156 | 31 | 10 | 103 | 0 |
| Queue Length 95th (ft) | 19 | 428 | 220 | 202 | 65 | 84 | 172 | 0 |
| Internal Link Dist (ft) | | 964 | | 411 | 1568 | | 382 | |
| Turn Bay Length (ft) | 170 | | 160 | | | 60 | | 130 |
| Base Capacity (vph) | 300 | 1816 | 329 | 1564 | 313 | 606 | 311 | 405 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.03 | 0.66 | 0.57 | 0.49 | 0.17 | 0.54 | 0.51 | 0.02 |

Intersection Summary

| Intersection | |
|---|---|
| Int Delay, s/veh | 1.8 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 1411 | 25 | 71 | 850 | 0 | 131 |
| Future Vol, veh/h | 1411 | 25 | 71 | 850 | 0 | 131 |
| Conflicting Peds, #/hr | 0 | 6 | 6 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 89 | 89 | 89 | 89 | 89 | 89 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1585 | 28 | 80 | 955 | 0 | 147 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | 1619 | 0 | - | 813 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | 4.14 | - | - | 6.94 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | 2.22 | - | - | 3.32 |
| Pot Cap-1 Maneuver | - | - | 398 | - | 0 | 322 |
| Stage 1 | - | - | - | - | 0 | - |
| Stage 2 | - | - | - | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | 396 | - | - | 320 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

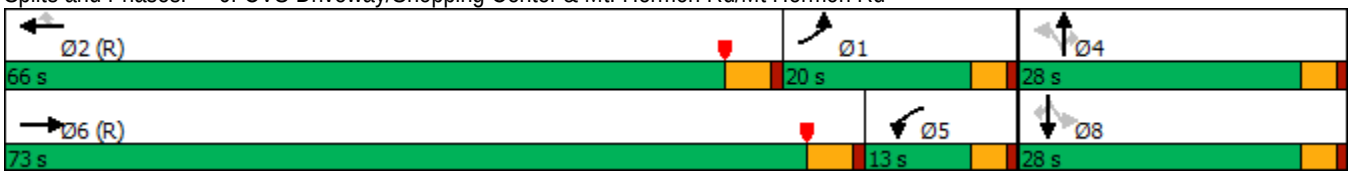
| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s | 0 | 1.3 | 25.5 |
| HCM LOS | | | D |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | 320 | - | - | 396 | - |
| HCM Lane V/C Ratio | 0.46 | - | - | 0.201 | - |
| HCM Control Delay (s) | 25.5 | - | - | 16.4 | - |
| HCM Lane LOS | D | - | - | C | - |
| HCM 95th %tile Q(veh) | 2.3 | - | - | 0.7 | - |

| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | |
| Traffic Volume (vph) | 66 | 1390 | 42 | 817 | 83 | 54 | 7 | 41 | 81 | 6 | 13 |
| Future Volume (vph) | 66 | 1390 | 42 | 817 | 83 | 54 | 7 | 41 | 81 | 6 | 13 |
| Turn Type | Prot | NA | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 1 | 6 | 5 | 2 | | | 4 | | | 8 | |
| Permitted Phases | | | | | 2 | 4 | | 4 | 8 | | 8 |
| Detector Phase | 1 | 6 | 5 | 2 | 2 | 4 | 4 | 4 | 8 | 8 | 8 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 4.0 | 10.0 | 10.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Minimum Split (s) | 20.0 | 27.0 | 8.0 | 27.0 | 27.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 |
| Total Split (s) | 20.0 | 73.0 | 13.0 | 66.0 | 66.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 |
| Total Split (%) | 17.5% | 64.0% | 11.4% | 57.9% | 57.9% | 24.6% | 24.6% | 24.6% | 24.6% | 24.6% | 24.6% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | -1.0 | 0.0 | -1.0 | -1.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lag | Lead | Lag | Lead | Lead | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 12.5 | 83.5 | 6.8 | 77.9 | 77.9 | | 13.3 | 13.3 | | 13.3 | 13.3 |
| Actuated g/C Ratio | 0.11 | 0.73 | 0.06 | 0.68 | 0.68 | | 0.12 | 0.12 | | 0.12 | 0.12 |
| v/c Ratio | 0.39 | 0.64 | 0.46 | 0.41 | 0.09 | | 0.57 | 0.17 | | 0.68 | 0.05 |
| Control Delay | 52.1 | 4.5 | 70.1 | 5.4 | 0.7 | | 64.0 | 1.3 | | 70.0 | 0.4 |
| Queue Delay | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 52.1 | 4.6 | 70.1 | 5.4 | 0.7 | | 64.0 | 1.3 | | 70.0 | 0.4 |
| LOS | D | A | E | A | A | | E | A | | E | A |
| Approach Delay | | 6.7 | | 7.9 | | | 39.0 | | | 60.7 | |
| Approach LOS | | A | | A | | | D | | | E | |

| Intersection Summary | |
|---|---|
| Cycle Length: 114 | |
| Actuated Cycle Length: 114 | |
| Offset: 64 (56%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow | |
| Natural Cycle: 75 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.68 | |
| Intersection Signal Delay: 10.4 | Intersection LOS: B |
| Intersection Capacity Utilization 66.2% | ICU Level of Service C |
| Analysis Period (min) 15 | |

Splits and Phases: 6: CVS Driveway/Shopping Center & Mt. Hermon Rd/Mt Hermon Rd





| Lane Group | EBL | EBT | WBL | WBT | WBR | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 74 | 1629 | 47 | 918 | 93 | 69 | 46 | 98 | 15 |
| v/c Ratio | 0.39 | 0.64 | 0.46 | 0.41 | 0.09 | 0.57 | 0.17 | 0.68 | 0.05 |
| Control Delay | 52.1 | 4.5 | 70.1 | 5.4 | 0.7 | 64.0 | 1.3 | 70.0 | 0.4 |
| Queue Delay | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 52.1 | 4.6 | 70.1 | 5.4 | 0.7 | 64.0 | 1.3 | 70.0 | 0.4 |
| Queue Length 50th (ft) | 55 | 53 | 36 | 114 | 1 | 49 | 0 | 70 | 0 |
| Queue Length 95th (ft) | m90 | 176 | 75 | 124 | 0 | 91 | 0 | 120 | 0 |
| Internal Link Dist (ft) | | 288 | | 439 | | 547 | | 549 | |
| Turn Bay Length (ft) | 70 | | 140 | | 105 | | 40 | | 30 |
| Base Capacity (vph) | 245 | 2553 | 135 | 2222 | 993 | 221 | 413 | 261 | 416 |
| Starvation Cap Reductn | 0 | 142 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.30 | 0.68 | 0.35 | 0.41 | 0.09 | 0.31 | 0.11 | 0.38 | 0.04 |

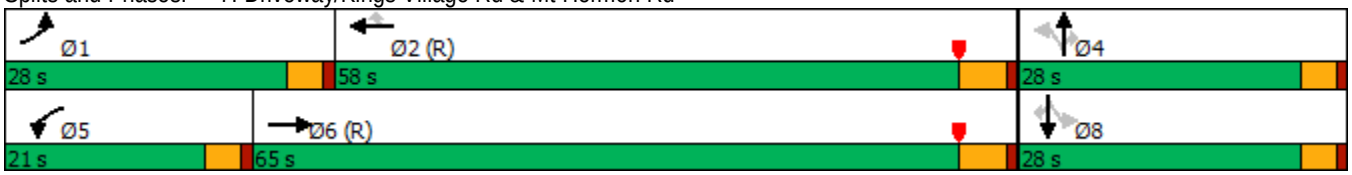
Intersection Summary

m Volume for 95th percentile queue is metered by upstream signal.

| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | |
| Traffic Volume (vph) | 139 | 1464 | 29 | 906 | 149 | 5 | 3 | 20 | 111 | 2 | 94 |
| Future Volume (vph) | 139 | 1464 | 29 | 906 | 149 | 5 | 3 | 20 | 111 | 2 | 94 |
| Turn Type | Prot | NA | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 1 | 6 | 5 | 2 | | | 4 | | | 8 | |
| Permitted Phases | | | | | 2 | 4 | | 4 | 8 | | 8 |
| Detector Phase | 1 | 6 | 5 | 2 | 2 | 4 | 4 | 4 | 8 | 8 | 8 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 4.0 | 10.0 | 10.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Minimum Split (s) | 8.0 | 27.0 | 8.0 | 27.0 | 27.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 |
| Total Split (s) | 28.0 | 65.0 | 21.0 | 58.0 | 58.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 |
| Total Split (%) | 24.6% | 57.0% | 18.4% | 50.9% | 50.9% | 24.6% | 24.6% | 24.6% | 24.6% | 24.6% | 24.6% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | -1.0 | 0.0 | -1.0 | -1.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 13.6 | 83.3 | 6.0 | 72.3 | 72.3 | | 16.1 | 16.1 | | 16.1 | 16.1 |
| Actuated g/C Ratio | 0.12 | 0.73 | 0.05 | 0.63 | 0.63 | | 0.14 | 0.14 | | 0.14 | 0.14 |
| v/c Ratio | 0.72 | 0.61 | 0.33 | 0.45 | 0.16 | | 0.04 | 0.07 | | 0.73 | 0.34 |
| Control Delay | 57.5 | 16.1 | 64.2 | 4.1 | 0.5 | | 38.8 | 0.5 | | 71.0 | 11.0 |
| Queue Delay | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 57.5 | 16.2 | 64.2 | 4.2 | 0.5 | | 38.8 | 0.5 | | 71.0 | 11.0 |
| LOS | E | B | E | A | A | | D | A | | E | B |
| Approach Delay | | 19.7 | | 5.3 | | | 11.0 | | | 43.7 | |
| Approach LOS | | B | | A | | | B | | | D | |

| Intersection Summary | |
|---|---|
| Cycle Length: 114 | |
| Actuated Cycle Length: 114 | |
| Offset: 28 (25%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow | |
| Natural Cycle: 70 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.73 | |
| Intersection Signal Delay: 16.0 | Intersection LOS: B |
| Intersection Capacity Utilization 68.2% | ICU Level of Service C |
| Analysis Period (min) 15 | |

Splits and Phases: 7: Driveway/Kings Village Rd & Mt Hermon Rd





| Lane Group | EBL | EBT | WBL | WBT | WBR | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 146 | 1562 | 31 | 954 | 157 | 8 | 21 | 119 | 99 |
| v/c Ratio | 0.72 | 0.61 | 0.33 | 0.45 | 0.16 | 0.04 | 0.07 | 0.73 | 0.34 |
| Control Delay | 57.5 | 16.1 | 64.2 | 4.1 | 0.5 | 38.8 | 0.5 | 71.0 | 11.0 |
| Queue Delay | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 57.5 | 16.2 | 64.2 | 4.2 | 0.5 | 38.8 | 0.5 | 71.0 | 11.0 |
| Queue Length 50th (ft) | 106 | 373 | 25 | 38 | 0 | 5 | 0 | 85 | 0 |
| Queue Length 95th (ft) | m162 | 572 | m50 | 38 | 0 | 19 | 0 | 140 | 45 |
| Internal Link Dist (ft) | | 532 | | 327 | | 464 | | 1400 | |
| Turn Bay Length (ft) | 175 | | 150 | | 130 | | 30 | | 50 |
| Base Capacity (vph) | 361 | 2552 | 269 | 2141 | 957 | 301 | 394 | 242 | 386 |
| Starvation Cap Reductn | 0 | 0 | 0 | 251 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 195 | 0 | 0 | 0 | 0 | 5 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.40 | 0.66 | 0.12 | 0.50 | 0.16 | 0.03 | 0.05 | 0.49 | 0.26 |

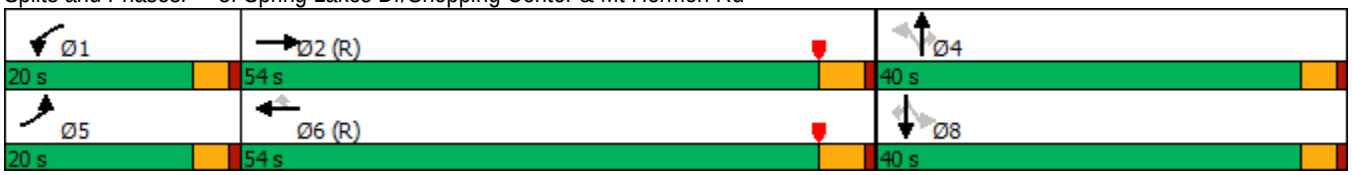
Intersection Summary

m Volume for 95th percentile queue is metered by upstream signal.

| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | |
| Traffic Volume (vph) | 46 | 1536 | 47 | 1065 | 190 | 14 | 3 | 24 | 117 | 2 | 29 |
| Future Volume (vph) | 46 | 1536 | 47 | 1065 | 190 | 14 | 3 | 24 | 117 | 2 | 29 |
| Turn Type | Prot | NA | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 5 | 2 | 1 | 6 | | | 4 | | | 8 | |
| Permitted Phases | | | | | 6 | 4 | | 4 | 8 | | 8 |
| Detector Phase | 5 | 2 | 1 | 6 | 6 | 4 | 4 | 4 | 8 | 8 | 8 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 4.0 | 10.0 | 10.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Minimum Split (s) | 8.0 | 30.0 | 8.0 | 30.0 | 30.0 | 35.0 | 35.0 | 35.0 | 26.0 | 26.0 | 26.0 |
| Total Split (s) | 20.0 | 54.0 | 20.0 | 54.0 | 54.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| Total Split (%) | 17.5% | 47.4% | 17.5% | 47.4% | 47.4% | 35.1% | 35.1% | 35.1% | 35.1% | 35.1% | 35.1% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | -1.0 | 0.0 | -1.0 | -1.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 7.1 | 79.1 | 7.4 | 79.4 | 79.4 | | 17.1 | 17.1 | | 17.1 | 17.1 |
| Actuated g/C Ratio | 0.06 | 0.69 | 0.06 | 0.70 | 0.70 | | 0.15 | 0.15 | | 0.15 | 0.15 |
| v/c Ratio | 0.45 | 0.70 | 0.47 | 0.49 | 0.18 | | 0.08 | 0.09 | | 0.65 | 0.12 |
| Control Delay | 73.7 | 11.5 | 66.1 | 4.6 | 0.4 | | 37.6 | 1.9 | | 58.4 | 3.8 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 73.7 | 11.5 | 66.1 | 4.6 | 0.4 | | 37.6 | 1.9 | | 58.4 | 3.8 |
| LOS | E | B | E | A | A | | D | A | | E | A |
| Approach Delay | | 13.3 | | 6.2 | | | 16.5 | | | 47.6 | |
| Approach LOS | | B | | A | | | B | | | D | |

| Intersection Summary | |
|---|---|
| Cycle Length: 114 | |
| Actuated Cycle Length: 114 | |
| Offset: 28 (25%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow | |
| Natural Cycle: 90 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.70 | |
| Intersection Signal Delay: 12.0 | Intersection LOS: B |
| Intersection Capacity Utilization 68.8% | ICU Level of Service C |
| Analysis Period (min) 15 | |

Splits and Phases: 8: Spring Lakes Dr/Shopping Center & Mt Hermon Rd





| Lane Group | EBL | EBT | WBL | WBT | WBR | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 50 | 1678 | 51 | 1158 | 207 | 18 | 26 | 129 | 32 |
| v/c Ratio | 0.45 | 0.70 | 0.47 | 0.49 | 0.18 | 0.08 | 0.09 | 0.65 | 0.12 |
| Control Delay | 73.7 | 11.5 | 66.1 | 4.6 | 0.4 | 37.6 | 1.9 | 58.4 | 3.8 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 73.7 | 11.5 | 66.1 | 4.6 | 0.4 | 37.6 | 1.9 | 58.4 | 3.8 |
| Queue Length 50th (ft) | 39 | 131 | 39 | 52 | 0 | 12 | 0 | 92 | 0 |
| Queue Length 95th (ft) | m66 | #768 | m61 | 136 | m2 | 28 | 5 | 134 | 10 |
| Internal Link Dist (ft) | | 327 | | 893 | | 496 | | 475 | |
| Turn Bay Length (ft) | 80 | | 185 | | | | 30 | | 30 |
| Base Capacity (vph) | 253 | 2405 | 234 | 2348 | 1130 | 470 | 539 | 422 | 505 |
| Starvation Cap Reductn | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.20 | 0.71 | 0.22 | 0.49 | 0.18 | 0.04 | 0.05 | 0.31 | 0.06 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.
m Volume for 95th percentile queue is metered by upstream signal.



| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 625 | 1210 | 121 | 834 | 589 | 85 | 135 | 200 | 565 | 68 | 418 |
| v/c Ratio | 0.85 | 0.77 | 0.70 | 0.71 | 0.67 | 0.62 | 0.63 | 0.57 | 0.89 | 0.16 | 0.63 |
| Control Delay | 59.7 | 29.7 | 79.1 | 33.5 | 8.2 | 69.5 | 59.9 | 12.9 | 62.2 | 35.5 | 8.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 59.7 | 29.7 | 79.1 | 33.5 | 8.2 | 69.5 | 59.9 | 12.9 | 62.2 | 35.5 | 8.0 |
| Queue Length 50th (ft) | 252 | 232 | 94 | 283 | 26 | 61 | 97 | 2 | 207 | 41 | 0 |
| Queue Length 95th (ft) | #329 | #602 | #158 | #426 | 121 | 112 | 147 | 65 | #293 | 74 | 80 |
| Internal Link Dist (ft) | | 893 | | 795 | | | 318 | | | 505 | |
| Turn Bay Length (ft) | 300 | | 275 | | 100 | 190 | | 150 | 220 | | |
| Base Capacity (vph) | 748 | 1575 | 187 | 1174 | 877 | 179 | 396 | 482 | 669 | 550 | 730 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.84 | 0.77 | 0.65 | 0.71 | 0.67 | 0.47 | 0.34 | 0.41 | 0.84 | 0.12 | 0.57 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

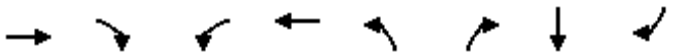
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 575 | 1080 | 33 | 111 | 767 | 542 | 78 | 124 | 184 | 520 | 63 | 385 |
| Future Volume (veh/h) | 575 | 1080 | 33 | 111 | 767 | 542 | 78 | 124 | 184 | 520 | 63 | 385 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.94 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1885 | 1826 | 1707 | 1841 | 1796 | 1870 | 1811 | 1885 | 1870 | 1885 | 1856 | 1826 |
| Adj Flow Rate, veh/h | 625 | 1174 | 36 | 121 | 834 | 0 | 85 | 135 | 200 | 565 | 68 | 0 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 1 | 5 | 13 | 4 | 7 | 2 | 6 | 1 | 2 | 1 | 3 | 5 |
| Cap, veh/h | 672 | 1493 | 46 | 145 | 1107 | | 107 | 308 | 245 | 624 | 521 | |
| Arrive On Green | 0.26 | 0.58 | 0.57 | 0.17 | 0.65 | 0.00 | 0.06 | 0.16 | 0.16 | 0.18 | 0.28 | 0.00 |
| Sat Flow, veh/h | 3483 | 3436 | 105 | 1753 | 3413 | 1585 | 1725 | 1885 | 1496 | 3483 | 1856 | 1547 |
| Grp Volume(v), veh/h | 625 | 592 | 618 | 121 | 834 | 0 | 85 | 135 | 200 | 565 | 68 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1742 | 1735 | 1807 | 1753 | 1706 | 1585 | 1725 | 1885 | 1496 | 1742 | 1856 | 1547 |
| Q Serve(g_s), s | 20.0 | 30.1 | 30.2 | 7.6 | 19.1 | 0.0 | 5.5 | 7.4 | 14.7 | 18.1 | 3.1 | 0.0 |
| Cycle Q Clear(g_c), s | 20.0 | 30.1 | 30.2 | 7.6 | 19.1 | 0.0 | 5.5 | 7.4 | 14.7 | 18.1 | 3.1 | 0.0 |
| Prop In Lane | 1.00 | | 0.06 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 672 | 754 | 785 | 145 | 1107 | | 107 | 308 | 245 | 624 | 521 | |
| V/C Ratio(X) | 0.93 | 0.79 | 0.79 | 0.84 | 0.75 | | 0.80 | 0.44 | 0.82 | 0.91 | 0.13 | |
| Avail Cap(c_a), veh/h | 672 | 754 | 785 | 169 | 1107 | | 182 | 397 | 315 | 672 | 553 | |
| HCM Platoon Ratio | 1.33 | 1.33 | 1.33 | 2.00 | 2.00 | 2.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.67 | 0.67 | 0.67 | 0.86 | 0.86 | 0.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.95 | 0.00 |
| Uniform Delay (d), s/veh | 41.6 | 20.0 | 20.0 | 46.8 | 16.9 | 0.0 | 52.8 | 43.0 | 46.0 | 45.8 | 30.6 | 0.0 |
| Incr Delay (d2), s/veh | 14.4 | 5.6 | 5.4 | 20.2 | 4.1 | 0.0 | 5.0 | 0.4 | 9.7 | 14.0 | 0.0 | 0.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 9.3 | 11.2 | 11.6 | 3.9 | 5.2 | 0.0 | 2.5 | 3.5 | 6.1 | 8.9 | 1.4 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 56.0 | 25.5 | 25.4 | 67.1 | 21.0 | 0.0 | 57.8 | 43.3 | 55.8 | 59.8 | 30.7 | 0.0 |
| LnGrp LOS | E | C | C | E | C | | E | D | E | E | C | |
| Approach Vol, veh/h | | 1835 | | | 955 | | | 420 | | | 633 | |
| Approach Delay, s/veh | | 35.9 | | | 26.9 | | | 52.2 | | | 56.7 | |
| Approach LOS | | D | | | C | | | D | | | E | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.4 | 53.5 | 24.4 | 22.6 | 26.0 | 41.0 | 11.1 | 36.0 |
| Change Period (Y+Rc), s | 4.0 | 5.0 | 4.0 | 4.0 | 4.0 | 5.0 | 4.0 | 4.0 |
| Max Green Setting (Gmax), s | 11.0 | 40.0 | 22.0 | 24.0 | 22.0 | 29.0 | 12.0 | 34.0 |
| Max Q Clear Time (g_c+I1), s | 9.6 | 32.2 | 20.1 | 16.7 | 22.0 | 21.1 | 7.5 | 5.1 |
| Green Ext Time (p_c), s | 0.0 | 4.5 | 0.3 | 0.4 | 0.0 | 3.4 | 0.0 | 0.2 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 38.8 |
| HCM 6th LOS | D |

**Notes**

Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

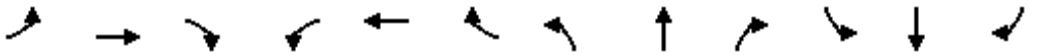


| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 1920 | 85 | 92 | 1222 | 199 | 236 | 51 | 293 |
| v/c Ratio | 1.02 | 0.10 | 0.97 | 0.72 | 0.41 | 0.55 | 0.23 | 0.83 |
| Control Delay | 48.7 | 5.3 | 133.6 | 23.7 | 42.2 | 11.1 | 39.8 | 47.7 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 48.7 | 5.3 | 133.6 | 23.7 | 42.2 | 11.1 | 39.8 | 47.7 |
| Queue Length 50th (ft) | ~576 | 3 | 54 | 285 | 54 | 0 | 28 | 128 |
| Queue Length 95th (ft) | #1106 | 35 | #193 | 508 | 109 | 73 | 61 | 239 |
| Internal Link Dist (ft) | 1450 | | | 401 | | | 369 | |
| Turn Bay Length (ft) | | 100 | 190 | | 130 | 180 | | 350 |
| Base Capacity (vph) | 3146 | 1428 | 95 | 1862 | 650 | 494 | 524 | 818 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.61 | 0.06 | 0.97 | 0.66 | 0.31 | 0.48 | 0.10 | 0.36 |

Intersection Summary

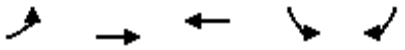
~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 0 | 1747 | 77 | 84 | 1112 | 0 | 181 | 0 | 215 | 5 | 42 | 267 |
| Future Volume (vph) | 0 | 1747 | 77 | 84 | 1112 | 0 | 181 | 0 | 215 | 5 | 42 | 267 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 4.0 | 4.0 | 4.0 | 4.0 | | 4.0 | | 4.0 | | 4.0 | 4.0 |
| Lane Util. Factor | | 0.95 | 1.00 | 1.00 | 0.95 | | 0.97 | | 1.00 | | 1.00 | 1.00 |
| Frpb, ped/bikes | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | | 1.00 | | 1.00 | 0.99 |
| Flpb, ped/bikes | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | | 1.00 | | 1.00 | 1.00 |
| Frt | | 1.00 | 0.85 | 1.00 | 1.00 | | 1.00 | | 0.85 | | 1.00 | 0.85 |
| Flt Protected | | 1.00 | 1.00 | 0.95 | 1.00 | | 0.95 | | 1.00 | | 1.00 | 1.00 |
| Satd. Flow (prot) | | 3505 | 1583 | 1719 | 3471 | | 3467 | | 1615 | | 1891 | 1500 |
| Flt Permitted | | 1.00 | 1.00 | 0.95 | 1.00 | | 0.95 | | 1.00 | | 1.00 | 1.00 |
| Satd. Flow (perm) | | 3505 | 1583 | 1719 | 3471 | | 3467 | | 1615 | | 1891 | 1500 |
| Peak-hour factor, PHF | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |
| Adj. Flow (vph) | 0 | 1920 | 85 | 92 | 1222 | 0 | 199 | 0 | 236 | 5 | 46 | 293 |
| RTOR Reduction (vph) | 0 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 203 | 0 | 0 | 41 |
| Lane Group Flow (vph) | 0 | 1920 | 51 | 92 | 1222 | 0 | 199 | 0 | 33 | 0 | 51 | 252 |
| Confl. Peds. (#/hr) | 1 | | | | | 1 | 1 | | | | | 1 |
| Confl. Bikes (#/hr) | | | | | | 1 | | | | | | |
| Heavy Vehicles (%) | 0% | 3% | 2% | 5% | 4% | 0% | 1% | 0% | 0% | 0% | 0% | 7% |
| Turn Type | | NA | Perm | Prot | NA | | Prot | | Perm | Split | NA | custom |
| Protected Phases | | 6 | | 5 | 2 | | 7 | | | 8 | 8 | 1 |
| Permitted Phases | | | 6 | | | | | | 7 | | | 8 |
| Actuated Green, G (s) | | 50.0 | 50.0 | 5.1 | 45.4 | | 12.7 | | 12.7 | | 9.8 | 20.0 |
| Effective Green, g (s) | | 51.3 | 51.3 | 5.3 | 46.7 | | 13.3 | | 13.3 | | 10.0 | 19.4 |
| Actuated g/C Ratio | | 0.53 | 0.53 | 0.06 | 0.49 | | 0.14 | | 0.14 | | 0.10 | 0.20 |
| Clearance Time (s) | | 5.3 | 5.3 | 4.2 | 5.3 | | 4.6 | | 4.6 | | 4.2 | 3.7 |
| Vehicle Extension (s) | | 3.5 | 3.5 | 3.0 | 3.5 | | 3.0 | | 3.0 | | 3.0 | 1.0 |
| Lane Grp Cap (vph) | | 1874 | 846 | 95 | 1690 | | 480 | | 223 | | 197 | 303 |
| v/s Ratio Prot | | c0.55 | | 0.05 | 0.35 | | c0.06 | | | | 0.03 | c0.09 |
| v/s Ratio Perm | | | 0.03 | | | | | | 0.02 | | | 0.08 |
| v/c Ratio | | 1.02 | 0.06 | 0.97 | 0.72 | | 0.41 | | 0.15 | | 0.26 | 0.83 |
| Uniform Delay, d1 | | 22.3 | 10.7 | 45.2 | 19.5 | | 37.7 | | 36.3 | | 39.5 | 36.7 |
| Progression Factor | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | | 1.00 | | 1.00 | 1.00 |
| Incremental Delay, d2 | | 27.3 | 0.0 | 81.1 | 1.6 | | 0.6 | | 0.3 | | 0.7 | 16.8 |
| Delay (s) | | 49.6 | 10.8 | 126.3 | 21.1 | | 38.3 | | 36.6 | | 40.2 | 53.5 |
| Level of Service | | D | B | F | C | | D | | D | | D | D |
| Approach Delay (s) | | 47.9 | | | 28.5 | | | 37.4 | | | 51.5 | |
| Approach LOS | | D | | | C | | | D | | | D | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 40.9 | HCM 2000 Level of Service | D |
| HCM 2000 Volume to Capacity ratio | 0.90 | | |
| Actuated Cycle Length (s) | 95.9 | Sum of lost time (s) | 16.0 |
| Intersection Capacity Utilization | 75.6% | ICU Level of Service | D |
| Analysis Period (min) | 15 | | |
| c Critical Lane Group | | | |

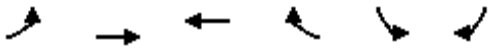


| Lane Group | EBL | EBT | WBT | SBL | SBR |
|---|---|---|---|---|---|
| Lane Group Flow (vph) | 167 | 676 | 891 | 167 | 180 |
| v/c Ratio | 0.60 | 0.52 | 1.01 | 0.57 | 0.46 |
| Control Delay | 42.5 | 8.0 | 57.4 | 40.4 | 10.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 42.5 | 8.0 | 57.4 | 40.4 | 10.1 |
| Queue Length 50th (ft) | 81 | 136 | ~450 | 81 | 4 |
| Queue Length 95th (ft) | 147 | 252 | #826 | 145 | 53 |
| Internal Link Dist (ft) | | 297 | 114 | 2513 | |
| Turn Bay Length (ft) | 295 | | | | 70 |
| Base Capacity (vph) | 642 | 1683 | 882 | 856 | 809 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.26 | 0.40 | 1.01 | 0.20 | 0.22 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Volume (veh/h) | 145 | 588 | 649 | 126 | 145 | 157 |
| Future Volume (veh/h) | 145 | 588 | 649 | 126 | 145 | 157 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 0.98 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 167 | 676 | 746 | 145 | 167 | 180 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 213 | 1317 | 786 | 153 | 274 | 244 |
| Arrive On Green | 0.12 | 0.70 | 0.52 | 0.52 | 0.15 | 0.15 |
| Sat Flow, veh/h | 1781 | 1870 | 1515 | 295 | 1781 | 1585 |
| Grp Volume(v), veh/h | 167 | 676 | 0 | 891 | 167 | 180 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1870 | 0 | 1810 | 1781 | 1585 |
| Q Serve(g_s), s | 6.9 | 12.7 | 0.0 | 35.4 | 6.7 | 8.2 |
| Cycle Q Clear(g_c), s | 6.9 | 12.7 | 0.0 | 35.4 | 6.7 | 8.2 |
| Prop In Lane | 1.00 | | | 0.16 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 213 | 1317 | 0 | 939 | 274 | 244 |
| V/C Ratio(X) | 0.79 | 0.51 | 0.00 | 0.95 | 0.61 | 0.74 |
| Avail Cap(c_a), veh/h | 703 | 1317 | 0 | 953 | 938 | 834 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 32.5 | 5.2 | 0.0 | 17.3 | 30.0 | 30.7 |
| Incr Delay (d2), s/veh | 6.3 | 0.7 | 0.0 | 18.4 | 2.6 | 5.2 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 3.3 | 3.8 | 0.0 | 17.6 | 3.0 | 7.4 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d),s/veh | 38.8 | 5.9 | 0.0 | 35.7 | 32.7 | 35.9 |
| LnGrp LOS | D | A | A | D | C | D |
| Approach Vol, veh/h | | 843 | 891 | | 347 | |
| Approach Delay, s/veh | | 12.4 | 35.7 | | 34.3 | |
| Approach LOS | | B | D | | C | |

| Timer - Assigned Phs | | 2 | | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | | 59.0 | | 17.0 | 14.1 | 44.9 |
| Change Period (Y+Rc), s | | 5.5 | | 5.3 | 5.0 | 5.5 |
| Max Green Setting (Gmax), s | | 40.0 | | 40.0 | 30.0 | 40.0 |
| Max Q Clear Time (g_c+I1), s | | 14.7 | | 10.2 | 8.9 | 37.4 |
| Green Ext Time (p_c), s | | 9.4 | | 1.5 | 0.4 | 2.0 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 26.0 |
| HCM 6th LOS | C |

| Intersection | |
|---|---|
| Int Delay, s/veh | 1.2 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 32 | 17 | 271 | 16 | 13 | 289 |
| Future Vol, veh/h | 32 | 17 | 271 | 16 | 13 | 289 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 19 | 19 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 93 | 93 | 93 | 93 | 93 | 93 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 34 | 18 | 291 | 17 | 14 | 311 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 658 | 319 | 0 | 0 | 327 | 0 |
| Stage 1 | 319 | - | - | - | - | - |
| Stage 2 | 339 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 429 | 722 | - | - | 1233 | - |
| Stage 1 | 737 | - | - | - | - | - |
| Stage 2 | 722 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 416 | 711 | - | - | 1213 | - |
| Mov Cap-2 Maneuver | 416 | - | - | - | - | - |
| Stage 1 | 725 | - | - | - | - | - |
| Stage 2 | 712 | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s | 13.3 | 0 | 0.3 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | 486 | 1213 | - |
| HCM Lane V/C Ratio | - | - | 0.108 | 0.012 | - |
| HCM Control Delay (s) | - | - | 13.3 | 8 | 0 |
| HCM Lane LOS | - | - | B | A | A |
| HCM 95th %tile Q(veh) | - | - | 0.4 | 0 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.4 |

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 2 | 10 | 281 | 7 | 17 | 300 |
| Future Vol, veh/h | 2 | 10 | 281 | 7 | 17 | 300 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 19 | 19 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 93 | 93 | 93 | 93 | 93 | 93 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 2 | 11 | 302 | 8 | 18 | 323 |

| Major/Minor | Minor1 | | Major1 | | Major2 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 684 | 325 | 0 | 0 | 329 | 0 |
| Stage 1 | 325 | - | - | - | - | - |
| Stage 2 | 359 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 414 | 716 | - | - | 1231 | - |
| Stage 1 | 732 | - | - | - | - | - |
| Stage 2 | 707 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 400 | 705 | - | - | 1212 | - |
| Mov Cap-2 Maneuver | 400 | - | - | - | - | - |
| Stage 1 | 720 | - | - | - | - | - |
| Stage 2 | 694 | - | - | - | - | - |

| Approach | WB | NB | SB |
|---|---|---|---|
| HCM Control Delay, s | 10.9 | 0 | 0.4 |
| HCM LOS | B | | |

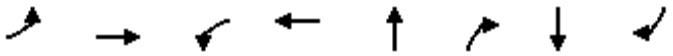
| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | - | - | 626 | 1212 | - |
| HCM Lane V/C Ratio | - | - | 0.021 | 0.015 | - |
| HCM Control Delay (s) | - | - | 10.9 | 8 | 0 |
| HCM Lane LOS | - | - | B | A | A |
| HCM 95th %tile Q(veh) | - | - | 0.1 | 0 | - |

| Lane Group | EBL | EBT | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | |
| Traffic Volume (vph) | 21 | 655 | 351 | 1348 | 29 | 20 | 216 | 136 | 21 | 19 |
| Future Volume (vph) | 21 | 655 | 351 | 1348 | 29 | 20 | 216 | 136 | 21 | 19 |
| Turn Type | Prot | NA | Prot | NA | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 5 | 2 | 1 | 6 | | 8 | | | 4 | |
| Permitted Phases | | | | | 8 | | 8 | 4 | | 4 |
| Detector Phase | 5 | 2 | 1 | 6 | 8 | 8 | 8 | 4 | 4 | 4 |
| Switch Phase | | | | | | | | | | |
| Minimum Initial (s) | 6.0 | 10.0 | 6.0 | 10.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| Minimum Split (s) | 10.0 | 30.0 | 20.0 | 28.0 | 29.0 | 29.0 | 29.0 | 29.0 | 29.0 | 29.0 |
| Total Split (s) | 24.0 | 58.0 | 35.0 | 69.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 |
| Total Split (%) | 20.0% | 48.3% | 29.2% | 57.5% | 22.5% | 22.5% | 22.5% | 22.5% | 22.5% | 22.5% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 5.0 | 4.0 | 5.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | Max | Max | Max | Max | Max | Max |
| Act Effct Green (s) | 6.5 | 57.0 | 27.0 | 83.5 | | 23.0 | 23.0 | | 23.0 | 23.0 |
| Actuated g/C Ratio | 0.05 | 0.48 | 0.22 | 0.70 | | 0.19 | 0.19 | | 0.19 | 0.19 |
| v/c Ratio | 0.21 | 0.42 | 0.88 | 0.63 | | 0.17 | 0.46 | | 0.61 | 0.05 |
| Control Delay | 59.2 | 22.1 | 70.2 | 2.8 | | 42.5 | 8.7 | | 55.7 | 0.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.2 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 59.2 | 22.1 | 70.2 | 3.1 | | 42.5 | 8.7 | | 55.7 | 0.3 |
| LOS | E | C | E | A | | D | A | | E | A |
| Approach Delay | | 23.2 | | 15.7 | | 15.0 | | | 49.8 | |
| Approach LOS | | C | | B | | B | | | D | |

| Intersection Summary | |
|---|---|
| Cycle Length: 120 | |
| Actuated Cycle Length: 120 | |
| Offset: 73 (61%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow | |
| Natural Cycle: 80 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.88 | |
| Intersection Signal Delay: 19.4 | Intersection LOS: B |
| Intersection Capacity Utilization 79.3% | ICU Level of Service D |
| Analysis Period (min) 15 | |

Splits and Phases: 4: Lockewood Ln/Skypark Dr & Mt. Hermon Rd





| Lane Group | EBL | EBT | WBL | WBT | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 21 | 700 | 358 | 1547 | 50 | 220 | 160 | 19 |
| v/c Ratio | 0.21 | 0.42 | 0.88 | 0.63 | 0.17 | 0.46 | 0.61 | 0.05 |
| Control Delay | 59.2 | 22.1 | 70.2 | 2.8 | 42.5 | 8.7 | 55.7 | 0.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 59.2 | 22.1 | 70.2 | 3.1 | 42.5 | 8.7 | 55.7 | 0.3 |
| Queue Length 50th (ft) | 16 | 184 | 237 | 49 | 33 | 0 | 114 | 0 |
| Queue Length 95th (ft) | 43 | 245 | m297 | 74 | 70 | 67 | 191 | 0 |
| Internal Link Dist (ft) | | 964 | | 397 | 1557 | | 382 | |
| Turn Bay Length (ft) | 170 | | 160 | | | 60 | | 130 |
| Base Capacity (vph) | 300 | 1686 | 466 | 2445 | 287 | 482 | 261 | 373 |
| Starvation Cap Reductn | 0 | 0 | 0 | 286 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.07 | 0.42 | 0.77 | 0.72 | 0.17 | 0.46 | 0.61 | 0.05 |

Intersection Summary

m Volume for 95th percentile queue is metered by upstream signal.

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.7 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 995 | 12 | 100 | 1864 | 0 | 76 |
| Future Vol, veh/h | 995 | 12 | 100 | 1864 | 0 | 76 |
| Conflicting Peds, #/hr | 0 | 7 | 7 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1082 | 13 | 109 | 2026 | 0 | 83 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | 1102 | 0 | - | 555 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | 4.14 | - | - | 6.94 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | 2.22 | - | - | 3.32 |
| Pot Cap-1 Maneuver | - | - | 629 | - | 0 | 475 |
| Stage 1 | - | - | - | - | 0 | - |
| Stage 2 | - | - | - | - | 0 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | 625 | - | - | 472 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |

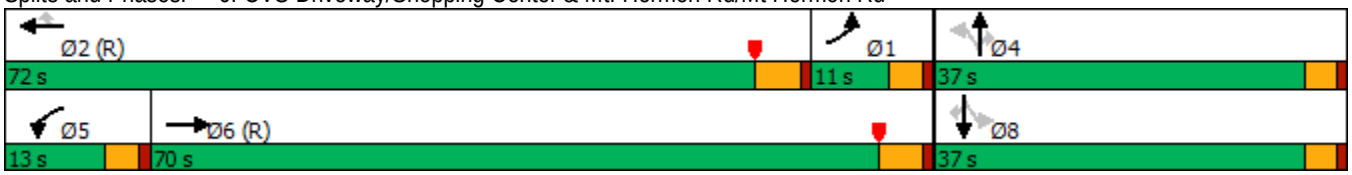
| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s | 0 | 0.6 | 14.2 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | 472 | - | - | 625 | - |
| HCM Lane V/C Ratio | 0.175 | - | - | 0.174 | - |
| HCM Control Delay (s) | 14.2 | - | - | 12 | - |
| HCM Lane LOS | B | - | - | B | - |
| HCM 95th %tile Q(veh) | 0.6 | - | - | 0.6 | - |

| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | |
| Traffic Volume (vph) | 61 | 964 | 53 | 1757 | 160 | 146 | 22 | 45 | 206 | 27 | 49 |
| Future Volume (vph) | 61 | 964 | 53 | 1757 | 160 | 146 | 22 | 45 | 206 | 27 | 49 |
| Turn Type | Prot | NA | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 1 | 6 | 5 | 2 | | | 4 | | | 8 | |
| Permitted Phases | | | | | 2 | 4 | | 4 | 8 | | 8 |
| Detector Phase | 1 | 6 | 5 | 2 | 2 | 4 | 4 | 4 | 8 | 8 | 8 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 4.0 | 10.0 | 10.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Minimum Split (s) | 8.0 | 27.0 | 8.0 | 27.0 | 27.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 |
| Total Split (s) | 11.0 | 70.0 | 13.0 | 72.0 | 72.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 |
| Total Split (%) | 9.2% | 58.3% | 10.8% | 60.0% | 60.0% | 30.8% | 30.8% | 30.8% | 30.8% | 30.8% | 30.8% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 5.0 | 4.0 | 5.0 | 5.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lag | Lag | Lead | Lead | Lead | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 6.5 | 71.3 | 7.1 | 72.0 | 72.0 | | 30.2 | 30.2 | | 30.2 | 30.2 |
| Actuated g/C Ratio | 0.05 | 0.59 | 0.06 | 0.60 | 0.60 | | 0.25 | 0.25 | | 0.25 | 0.25 |
| v/c Ratio | 0.63 | 0.49 | 0.51 | 0.84 | 0.17 | | 0.89 | 0.10 | | 0.96 | 0.11 |
| Control Delay | 72.0 | 13.3 | 80.5 | 14.0 | 4.0 | | 85.4 | 0.4 | | 90.6 | 0.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 72.0 | 13.3 | 80.5 | 14.0 | 4.0 | | 85.4 | 0.4 | | 90.6 | 0.5 |
| LOS | E | B | F | B | A | | F | A | | F | A |
| Approach Delay | | 16.7 | | 15.0 | | | 67.4 | | | 74.9 | |
| Approach LOS | | B | | B | | | E | | | E | |

| Intersection Summary | |
|---|---|
| Cycle Length: 120 | |
| Actuated Cycle Length: 120 | |
| Offset: 50 (42%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow | |
| Natural Cycle: 90 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 0.96 | |
| Intersection Signal Delay: 23.4 | Intersection LOS: C |
| Intersection Capacity Utilization 78.9% | ICU Level of Service D |
| Analysis Period (min) 15 | |

Splits and Phases: 6: CVS Driveway/Shopping Center & Mt. Hermon Rd/Mt Hermon Rd





| Lane Group | EBL | EBT | WBL | WBT | WBR | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 62 | 1029 | 54 | 1793 | 163 | 171 | 46 | 238 | 50 |
| v/c Ratio | 0.63 | 0.49 | 0.51 | 0.84 | 0.17 | 0.89 | 0.10 | 0.96 | 0.11 |
| Control Delay | 72.0 | 13.3 | 80.5 | 14.0 | 4.0 | 85.4 | 0.4 | 90.6 | 0.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 72.0 | 13.3 | 80.5 | 14.0 | 4.0 | 85.4 | 0.4 | 90.6 | 0.5 |
| Queue Length 50th (ft) | 48 | 193 | 42 | 334 | 9 | 124 | 0 | 176 | 0 |
| Queue Length 95th (ft) | m#100 | 248 | m54 | m455 | m17 | #250 | 0 | #327 | 2 |
| Internal Link Dist (ft) | | 297 | | 439 | | 547 | | 549 | |
| Turn Bay Length (ft) | 70 | | 140 | | 105 | | 40 | | 30 |
| Base Capacity (vph) | 105 | 2105 | 135 | 2143 | 961 | 209 | 516 | 272 | 499 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.59 | 0.49 | 0.40 | 0.84 | 0.17 | 0.82 | 0.09 | 0.88 | 0.10 |

Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.
m Volume for 95th percentile queue is metered by upstream signal.

| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | |
| Traffic Volume (vph) | 201 | 1247 | 126 | 1867 | 265 | 39 | 29 | 72 | 256 | 37 | 326 |
| Future Volume (vph) | 201 | 1247 | 126 | 1867 | 265 | 39 | 29 | 72 | 256 | 37 | 326 |
| Turn Type | Prot | NA | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 1 | 6 | 5 | 2 | | | 4 | | | 8 | |
| Permitted Phases | | | | | 2 | 4 | | 4 | 8 | | 8 |
| Detector Phase | 1 | 6 | 5 | 2 | 2 | 4 | 4 | 4 | 8 | 8 | 8 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 4.0 | 10.0 | 10.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Minimum Split (s) | 8.0 | 27.0 | 8.0 | 27.0 | 27.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 |
| Total Split (s) | 21.0 | 71.0 | 21.0 | 71.0 | 71.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 |
| Total Split (%) | 17.5% | 59.2% | 17.5% | 59.2% | 59.2% | 23.3% | 23.3% | 23.3% | 23.3% | 23.3% | 23.3% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 5.0 | 4.0 | 5.0 | 5.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 15.9 | 70.7 | 12.3 | 67.1 | 67.1 | | 24.0 | 24.0 | | 24.0 | 24.0 |
| Actuated g/C Ratio | 0.13 | 0.59 | 0.10 | 0.56 | 0.56 | | 0.20 | 0.20 | | 0.20 | 0.20 |
| v/c Ratio | 0.88 | 0.63 | 0.70 | 0.96 | 0.32 | | 0.43 | 0.20 | | 1.21 | 0.81 |
| Control Delay | 80.7 | 18.1 | 76.9 | 13.7 | 1.1 | | 51.6 | 10.3 | | 168.3 | 44.9 |
| Queue Delay | 0.0 | 0.1 | 0.0 | 42.8 | 0.7 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 80.7 | 18.2 | 76.9 | 56.5 | 1.8 | | 51.6 | 10.3 | | 168.3 | 44.9 |
| LOS | F | B | E | E | A | | D | B | | F | D |
| Approach Delay | | 26.7 | | 51.2 | | | 30.4 | | | 103.3 | |
| Approach LOS | | C | | D | | | C | | | F | |

| Intersection Summary | |
|---|---|
| Cycle Length: 120 | |
| Actuated Cycle Length: 120 | |
| Offset: 32 (27%), Referenced to phase 2:WBT and 6:EBT, Start of Yellow | |
| Natural Cycle: 110 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 1.21 | |
| Intersection Signal Delay: 49.7 | Intersection LOS: D |
| Intersection Capacity Utilization 96.4% | ICU Level of Service F |
| Analysis Period (min) 15 | |

Splits and Phases: 7: Driveway/Kings Village Rd & Mt Hermon Rd





| Lane Group | EBL | EBT | WBL | WBT | WBR | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 207 | 1321 | 130 | 1925 | 273 | 70 | 74 | 302 | 336 |
| v/c Ratio | 0.88 | 0.63 | 0.70 | 0.96 | 0.32 | 0.43 | 0.20 | 1.21 | 0.81 |
| Control Delay | 80.7 | 18.1 | 76.9 | 13.7 | 1.1 | 51.6 | 10.3 | 168.3 | 44.9 |
| Queue Delay | 0.0 | 0.1 | 0.0 | 42.8 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 80.7 | 18.2 | 76.9 | 56.5 | 1.8 | 51.6 | 10.3 | 168.3 | 44.9 |
| Queue Length 50th (ft) | 156 | 316 | 106 | 550 | 13 | 48 | 0 | ~286 | 161 |
| Queue Length 95th (ft) | m#274 | 448 | m110 | m32 | m0 | 98 | 41 | #465 | #311 |
| Internal Link Dist (ft) | | 532 | | 327 | | 464 | | 1400 | |
| Turn Bay Length (ft) | 175 | | 150 | | 130 | | 30 | | 50 |
| Base Capacity (vph) | 250 | 2096 | 255 | 1997 | 865 | 162 | 374 | 249 | 414 |
| Starvation Cap Reductn | 0 | 0 | 0 | 298 | 325 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 149 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.83 | 0.68 | 0.51 | 1.13 | 0.51 | 0.43 | 0.20 | 1.21 | 0.81 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

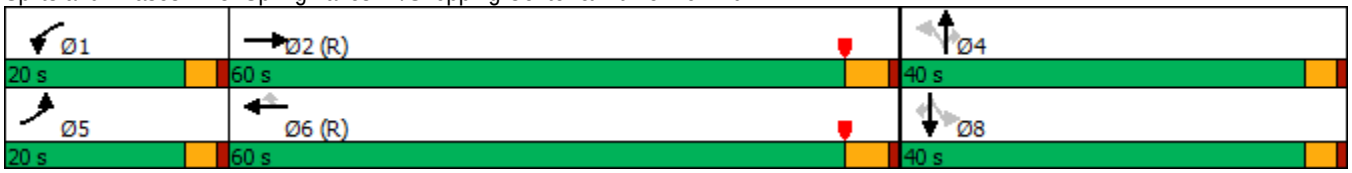
# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.

| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | |
| Traffic Volume (vph) | 65 | 1569 | 69 | 2149 | 315 | 14 | 6 | 22 | 229 | 6 | 83 |
| Future Volume (vph) | 65 | 1569 | 69 | 2149 | 315 | 14 | 6 | 22 | 229 | 6 | 83 |
| Turn Type | Prot | NA | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 5 | 2 | 1 | 6 | | | 4 | | | 8 | |
| Permitted Phases | | | | | 6 | 4 | | 4 | 8 | | 8 |
| Detector Phase | 5 | 2 | 1 | 6 | 6 | 4 | 4 | 4 | 8 | 8 | 8 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 4.0 | 10.0 | 10.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Minimum Split (s) | 8.0 | 30.0 | 8.0 | 30.0 | 30.0 | 35.0 | 35.0 | 35.0 | 26.0 | 26.0 | 26.0 |
| Total Split (s) | 20.0 | 60.0 | 20.0 | 60.0 | 60.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| Total Split (%) | 16.7% | 50.0% | 16.7% | 50.0% | 50.0% | 33.3% | 33.3% | 33.3% | 33.3% | 33.3% | 33.3% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 5.0 | 4.0 | 5.0 | 5.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 8.4 | 73.9 | 8.7 | 74.1 | 74.1 | | 26.2 | 26.2 | | 26.2 | 26.2 |
| Actuated g/C Ratio | 0.07 | 0.62 | 0.07 | 0.62 | 0.62 | | 0.22 | 0.22 | | 0.22 | 0.22 |
| v/c Ratio | 0.54 | 0.76 | 0.55 | 1.01 | 0.32 | | 0.06 | 0.06 | | 0.83 | 0.22 |
| Control Delay | 66.2 | 17.5 | 54.8 | 26.5 | 3.3 | | 34.0 | 0.8 | | 66.9 | 16.2 |
| Queue Delay | 0.0 | 0.1 | 0.0 | 31.2 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 66.2 | 17.6 | 54.8 | 57.8 | 3.3 | | 34.0 | 0.8 | | 66.9 | 16.2 |
| LOS | E | B | D | E | A | | C | A | | E | B |
| Approach Delay | | 19.5 | | 50.9 | | | 16.6 | | | 53.7 | |
| Approach LOS | | B | | D | | | B | | | D | |

| Intersection Summary | |
|---|---|
| Cycle Length: 120 | |
| Actuated Cycle Length: 120 | |
| Offset: 20 (17%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow | |
| Natural Cycle: 120 | |
| Control Type: Actuated-Coordinated | |
| Maximum v/c Ratio: 1.01 | |
| Intersection Signal Delay: 39.4 | Intersection LOS: D |
| Intersection Capacity Utilization 86.6% | ICU Level of Service E |
| Analysis Period (min) 15 | |

Splits and Phases: 8: Spring Lakes Dr/Shopping Center & Mt Hermon Rd





| Lane Group | EBL | EBT | WBL | WBT | WBR | NBT | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 68 | 1649 | 72 | 2239 | 328 | 21 | 23 | 245 | 86 |
| v/c Ratio | 0.54 | 0.76 | 0.55 | 1.01 | 0.32 | 0.06 | 0.06 | 0.83 | 0.22 |
| Control Delay | 66.2 | 17.5 | 54.8 | 26.5 | 3.3 | 34.0 | 0.8 | 66.9 | 16.2 |
| Queue Delay | 0.0 | 0.1 | 0.0 | 31.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 66.2 | 17.6 | 54.8 | 57.8 | 3.3 | 34.0 | 0.8 | 66.9 | 16.2 |
| Queue Length 50th (ft) | 53 | 291 | 56 | ~979 | 27 | 13 | 0 | 182 | 19 |
| Queue Length 95th (ft) | m83 | m#687 | m47 | m#388 | m12 | 32 | 2 | 255 | 57 |
| Internal Link Dist (ft) | | 327 | | 893 | | 496 | | 475 | |
| Turn Bay Length (ft) | 80 | | 185 | | | | 30 | | 30 |
| Base Capacity (vph) | 240 | 2175 | 240 | 2207 | 1039 | 449 | 514 | 405 | 511 |
| Starvation Cap Reductn | 0 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 162 | 0 | 0 | 0 | 0 | 2 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.28 | 0.77 | 0.30 | 1.09 | 0.32 | 0.05 | 0.04 | 0.60 | 0.17 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.



| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 680 | 1187 | 186 | 1584 | 478 | 110 | 70 | 85 | 525 | 95 | 871 |
| v/c Ratio | 1.38 | 0.85 | 0.96 | 1.21 | 0.63 | 1.47 | 0.19 | 0.21 | 1.01 | 0.17 | 1.37 |
| Control Delay | 222.5 | 37.2 | 105.0 | 134.6 | 17.7 | 308.7 | 42.4 | 3.3 | 92.7 | 32.0 | 203.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 222.5 | 37.2 | 105.0 | 134.6 | 17.7 | 308.7 | 42.4 | 3.3 | 92.7 | 32.0 | 203.1 |
| Queue Length 50th (ft) | ~372 | 253 | 153 | ~772 | 72 | ~117 | 46 | 0 | ~214 | 54 | ~762 |
| Queue Length 95th (ft) | #491 | 415 | m#288 | #920 | 272 | #236 | 89 | 15 | #330 | 98 | #1011 |
| Internal Link Dist (ft) | | 893 | | 795 | | | 318 | | | 505 | |
| Turn Bay Length (ft) | 300 | | 275 | | 100 | 190 | | 150 | 220 | | |
| Base Capacity (vph) | 491 | 1403 | 193 | 1310 | 758 | 75 | 364 | 406 | 520 | 570 | 635 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 1.38 | 0.85 | 0.96 | 1.21 | 0.63 | 1.47 | 0.19 | 0.21 | 1.01 | 0.17 | 1.37 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.

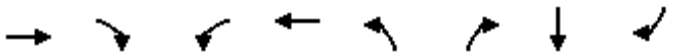
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 660 | 1059 | 92 | 180 | 1536 | 464 | 107 | 68 | 82 | 509 | 92 | 845 |
| Future Volume (veh/h) | 660 | 1059 | 92 | 180 | 1536 | 464 | 107 | 68 | 82 | 509 | 92 | 845 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.99 | 1.00 | | 1.00 | 1.00 | | 0.98 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1885 | 1870 | 1885 | 1885 | 1885 | 1885 | 1900 | 1900 | 1900 | 1885 | 1900 | 1885 |
| Adj Flow Rate, veh/h | 680 | 1092 | 95 | 186 | 1584 | 0 | 110 | 70 | 85 | 525 | 95 | 0 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 1 | 2 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 |
| Cap, veh/h | 493 | 1693 | 147 | 195 | 1715 | | 75 | 151 | 126 | 522 | 357 | |
| Arrive On Green | 0.19 | 0.68 | 0.68 | 0.07 | 0.32 | 0.00 | 0.04 | 0.08 | 0.08 | 0.15 | 0.19 | 0.00 |
| Sat Flow, veh/h | 3483 | 3306 | 287 | 1795 | 3582 | 1598 | 1810 | 1900 | 1580 | 3483 | 1900 | 1598 |
| Grp Volume(v), veh/h | 680 | 587 | 600 | 186 | 1584 | 0 | 110 | 70 | 85 | 525 | 95 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1742 | 1777 | 1816 | 1795 | 1791 | 1598 | 1810 | 1900 | 1580 | 1742 | 1900 | 1598 |
| Q Serve(g_s), s | 17.0 | 22.5 | 22.6 | 12.4 | 51.2 | 0.0 | 5.0 | 4.2 | 6.3 | 18.0 | 5.1 | 0.0 |
| Cycle Q Clear(g_c), s | 17.0 | 22.5 | 22.6 | 12.4 | 51.2 | 0.0 | 5.0 | 4.2 | 6.3 | 18.0 | 5.1 | 0.0 |
| Prop In Lane | 1.00 | | 0.16 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 493 | 910 | 930 | 195 | 1715 | | 75 | 151 | 126 | 522 | 357 | |
| V/C Ratio(X) | 1.38 | 0.64 | 0.65 | 0.96 | 0.92 | | 1.46 | 0.46 | 0.68 | 1.00 | 0.27 | |
| Avail Cap(c_a), veh/h | 493 | 910 | 930 | 195 | 1715 | | 75 | 364 | 303 | 522 | 570 | |
| HCM Platoon Ratio | 1.33 | 1.33 | 1.33 | 0.67 | 0.67 | 0.67 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.58 | 0.58 | 0.58 | 0.68 | 0.68 | 0.00 | 1.00 | 1.00 | 1.00 | 0.88 | 0.88 | 0.00 |
| Uniform Delay (d), s/veh | 48.7 | 12.9 | 12.9 | 55.4 | 38.6 | 0.0 | 57.5 | 52.8 | 53.7 | 51.0 | 41.7 | 0.0 |
| Incr Delay (d2), s/veh | 177.5 | 2.1 | 2.0 | 41.0 | 7.1 | 0.0 | 265.5 | 0.8 | 2.4 | 38.1 | 0.1 | 0.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 19.1 | 7.3 | 7.5 | 8.0 | 24.9 | 0.0 | 7.8 | 2.1 | 0.1 | 10.5 | 2.4 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 226.2 | 15.0 | 15.0 | 96.4 | 45.8 | 0.0 | 323.0 | 53.6 | 56.1 | 89.1 | 41.8 | 0.0 |
| LnGrp LOS | F | B | B | F | D | | F | D | E | F | D | |
| Approach Vol, veh/h | | 1867 | | | 1770 | | | 265 | | | 620 | |
| Approach Delay, s/veh | | 91.9 | | | 51.1 | | | 166.2 | | | 81.9 | |
| Approach LOS | | F | | | D | | | F | | | F | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 17.0 | 66.5 | 22.0 | 14.5 | 21.0 | 62.5 | 9.0 | 27.5 |
| Change Period (Y+Rc), s | 4.0 | 5.0 | 4.0 | 5.0 | 4.0 | 5.0 | 4.0 | 5.0 |
| Max Green Setting (Gmax), s | 13.0 | 48.0 | 18.0 | 23.0 | 17.0 | 44.0 | 5.0 | 36.0 |
| Max Q Clear Time (g_c+I1), s | 14.4 | 24.6 | 20.0 | 8.3 | 19.0 | 53.2 | 7.0 | 7.1 |
| Green Ext Time (p_c), s | 0.0 | 8.5 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.3 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 78.9 |
| HCM 6th LOS | E |

**Notes**

Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

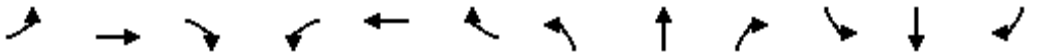


| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 1577 | 161 | 102 | 1451 | 141 | 140 | 71 | 632 |
| v/c Ratio | 0.70 | 0.16 | 1.48 | 1.06 | 0.41 | 0.50 | 0.39 | 0.97 |
| Control Delay | 19.1 | 6.9 | 319.4 | 79.6 | 61.2 | 15.8 | 61.0 | 63.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 19.1 | 6.9 | 319.4 | 79.6 | 61.2 | 15.8 | 61.0 | 63.9 |
| Queue Length 50th (ft) | 409 | 25 | ~117 | ~703 | 58 | 0 | 58 | 452 |
| Queue Length 95th (ft) | 745 | 80 | #278 | #1080 | 105 | 69 | 107 | 648 |
| Internal Link Dist (ft) | 1456 | | | 401 | | | 369 | |
| Turn Bay Length (ft) | | 100 | 190 | | 130 | 180 | | 350 |
| Base Capacity (vph) | 2318 | 1050 | 69 | 1373 | 467 | 334 | 375 | 671 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.68 | 0.15 | 1.48 | 1.06 | 0.30 | 0.42 | 0.19 | 0.94 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 0 | 1498 | 153 | 97 | 1378 | 0 | 134 | 0 | 133 | 13 | 54 | 600 |
| Future Volume (vph) | 0 | 1498 | 153 | 97 | 1378 | 0 | 134 | 0 | 133 | 13 | 54 | 600 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 5.3 | 5.3 | 4.2 | 5.3 | | 4.6 | | 4.6 | | 4.2 | 3.7 |
| Lane Util. Factor | | 0.95 | 1.00 | 1.00 | 0.95 | | 0.97 | | 1.00 | | 1.00 | 1.00 |
| Frpb, ped/bikes | | 1.00 | 0.98 | 1.00 | 1.00 | | 1.00 | | 1.00 | | 1.00 | 1.00 |
| Flpb, ped/bikes | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | | 1.00 | | 1.00 | 1.00 |
| Frt | | 1.00 | 0.85 | 1.00 | 1.00 | | 1.00 | | 0.85 | | 1.00 | 0.85 |
| Flt Protected | | 1.00 | 1.00 | 0.95 | 1.00 | | 0.95 | | 1.00 | | 0.99 | 1.00 |
| Satd. Flow (prot) | | 3539 | 1565 | 1770 | 3574 | | 3502 | | 1599 | | 1852 | 1578 |
| Flt Permitted | | 1.00 | 1.00 | 0.95 | 1.00 | | 0.95 | | 1.00 | | 0.99 | 1.00 |
| Satd. Flow (perm) | | 3539 | 1565 | 1770 | 3574 | | 3502 | | 1599 | | 1852 | 1578 |
| Peak-hour factor, PHF | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.91 | 0.95 | 0.95 |
| Adj. Flow (vph) | 0 | 1577 | 161 | 102 | 1451 | 0 | 141 | 0 | 140 | 14 | 57 | 632 |
| RTOR Reduction (vph) | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 126 | 0 | 0 | 36 |
| Lane Group Flow (vph) | 0 | 1577 | 134 | 102 | 1451 | 0 | 141 | 0 | 14 | 0 | 71 | 596 |
| Confl. Peds. (#/hr) | | | | | | | 2 | | | | | 2 |
| Confl. Bikes (#/hr) | | | 2 | | | 1 | | | | | | |
| Heavy Vehicles (%) | 0% | 2% | 1% | 2% | 1% | 0% | 0% | 0% | 1% | 8% | 0% | 2% |
| Turn Type | | NA | Perm | Prot | NA | | Prot | | Perm | Perm | NA | custom |
| Protected Phases | | 6 | | 5 | 2 | | 7 | | | | 8 | 1 |
| Permitted Phases | | | 6 | | | | | | 7 | 8 | | 8 |
| Actuated Green, G (s) | | 82.5 | 82.5 | 5.1 | 49.5 | | 12.6 | | 12.6 | | 11.2 | 49.8 |
| Effective Green, g (s) | | 82.5 | 82.5 | 5.1 | 49.5 | | 12.6 | | 12.6 | | 11.2 | 49.8 |
| Actuated g/C Ratio | | 0.64 | 0.64 | 0.04 | 0.38 | | 0.10 | | 0.10 | | 0.09 | 0.38 |
| Clearance Time (s) | | 5.3 | 5.3 | 4.2 | 5.3 | | 4.6 | | 4.6 | | 4.2 | 3.7 |
| Vehicle Extension (s) | | 3.5 | 3.5 | 3.0 | 3.5 | | 3.0 | | 3.0 | | 3.0 | 1.0 |
| Lane Grp Cap (vph) | | 2251 | 995 | 69 | 1364 | | 340 | | 155 | | 159 | 605 |
| v/s Ratio Prot | | 0.45 | | c0.06 | c0.41 | | c0.04 | | | | | c0.29 |
| v/s Ratio Perm | | | 0.09 | | | | | | 0.01 | | 0.04 | 0.08 |
| v/c Ratio | | 0.70 | 0.14 | 1.48 | 1.06 | | 0.41 | | 0.09 | | 0.45 | 0.99 |
| Uniform Delay, d1 | | 15.5 | 9.4 | 62.3 | 40.1 | | 55.1 | | 53.3 | | 56.3 | 39.6 |
| Progression Factor | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | | 1.00 | | 1.00 | 1.00 |
| Incremental Delay, d2 | | 1.0 | 0.1 | 277.7 | 43.3 | | 0.8 | | 0.2 | | 2.0 | 32.6 |
| Delay (s) | | 16.5 | 9.5 | 340.0 | 83.4 | | 55.9 | | 53.6 | | 58.3 | 72.2 |
| Level of Service | | B | A | F | F | | E | | D | | E | E |
| Approach Delay (s) | | 15.9 | | | 100.2 | | | 54.7 | | | 70.8 | |
| Approach LOS | | B | | | F | | | D | | | E | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 58.1 | HCM 2000 Level of Service | E |
| HCM 2000 Volume to Capacity ratio | 0.97 | | |
| Actuated Cycle Length (s) | 129.7 | Sum of lost time (s) | 18.3 |
| Intersection Capacity Utilization | 90.4% | ICU Level of Service | E |
| Analysis Period (min) | 15 | | |
| c Critical Lane Group | | | |

## 8: Spring Lakes Dr/Shopping Center & Mt Hermon Rd

Timing Plan: PM PEAK

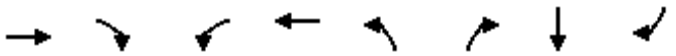
| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | |
| Traffic Volume (vph) | 65 | 1569 | 69 | 2149 | 315 | 14 | 6 | 22 | 229 | 6 | 83 |
| Future Volume (vph) | 65 | 1569 | 69 | 2149 | 315 | 14 | 6 | 22 | 229 | 6 | 83 |
| Turn Type | Prot | NA | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 5 | 2 | 1 | 6 | | | 4 | | | 8 | |
| Permitted Phases | | | | | 6 | 4 | | 4 | 8 | | 8 |
| Detector Phase | 5 | 2 | 1 | 6 | 6 | 4 | 4 | 4 | 8 | 8 | 8 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 4.0 | 10.0 | 10.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Minimum Split (s) | 8.0 | 30.0 | 8.0 | 30.0 | 30.0 | 35.0 | 35.0 | 35.0 | 26.0 | 26.0 | 26.0 |
| Total Split (s) | 13.0 | 106.0 | 16.0 | 109.0 | 109.0 | 38.0 | 38.0 | 38.0 | 38.0 | 38.0 | 38.0 |
| Total Split (%) | 8.1% | 66.3% | 10.0% | 68.1% | 68.1% | 23.8% | 23.8% | 23.8% | 23.8% | 23.8% | 23.8% |
| Yellow Time (s) | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 5.0 | 4.0 | 5.0 | 5.0 | | 4.0 | 4.0 | | 4.0 | 4.0 |
| Lead/Lag | Lead | Lead | Lag | Lag | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Recall Mode | None | C-Max | None | C-Max | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 8.3 | 103.6 | 12.0 | 107.3 | 107.3 | | 31.4 | 31.4 | | 31.4 | 31.4 |
| Actuated g/C Ratio | 0.05 | 0.65 | 0.08 | 0.67 | 0.67 | | 0.20 | 0.20 | | 0.20 | 0.20 |
| v/c Ratio | 0.73 | 0.72 | 0.53 | 0.93 | 0.29 | | 0.08 | 0.06 | | 0.93 | 0.23 |
| Control Delay | 117.1 | 11.8 | 55.6 | 9.2 | 0.7 | | 51.8 | 0.3 | | 101.9 | 14.9 |
| Queue Delay | 0.0 | 0.3 | 0.0 | 37.0 | 0.0 | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Total Delay | 117.1 | 12.1 | 55.6 | 46.2 | 0.7 | | 51.8 | 0.3 | | 101.9 | 14.9 |
| LOS | F | B | E | D | A | | D | A | | F | B |
| Approach Delay | | 16.3 | | 40.8 | | | 24.9 | | | 79.3 | |
| Approach LOS | | B | | D | | | C | | | E | |

### Intersection Summary

Cycle Length: 160
Actuated Cycle Length: 160
Offset: 2 (1%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow
Natural Cycle: 120
Control Type: Actuated-Coordinated
Maximum v/c Ratio: 0.93
Intersection Signal Delay: 34.4 — Intersection LOS: C
Intersection Capacity Utilization 86.6% — ICU Level of Service E
Analysis Period (min) 15

Splits and Phases: 8: Spring Lakes Dr/Shopping Center & Mt Hermon Rd



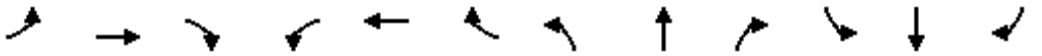


| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR | SBT | SBR |
|---|---|---|---|---|---|---|---|---|
| Lane Group Flow (vph) | 1577 | 161 | 102 | 1451 | 141 | 140 | 71 | 632 |
| v/c Ratio | 0.81 | 0.18 | 1.17 | 0.83 | 0.34 | 0.44 | 0.32 | 0.89 |
| Control Delay | 24.8 | 8.8 | 193.0 | 29.1 | 45.1 | 12.7 | 43.5 | 45.7 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 24.8 | 8.8 | 193.0 | 29.1 | 45.1 | 12.7 | 43.5 | 45.7 |
| Queue Length 50th (ft) | 397 | 25 | ~78 | 405 | 43 | 0 | 44 | 182 |
| Queue Length 95th (ft) | #805 | 84 | #210 | #687 | 82 | 59 | 78 | 252 |
| Internal Link Dist (ft) | 1456 | | | 401 | | | 369 | |
| Turn Bay Length (ft) | | 100 | 190 | | 130 | 180 | | 350 |
| Base Capacity (vph) | 2937 | 1311 | 87 | 1740 | 591 | 386 | 476 | 1455 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.54 | 0.12 | 1.17 | 0.83 | 0.24 | 0.36 | 0.15 | 0.43 |

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 0 | 1498 | 153 | 97 | 1378 | 0 | 134 | 0 | 133 | 13 | 54 | 600 |
| Future Volume (vph) | 0 | 1498 | 153 | 97 | 1378 | 0 | 134 | 0 | 133 | 13 | 54 | 600 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 5.3 | 5.3 | 4.2 | 5.3 | | 4.6 | | 4.6 | | 4.2 | 3.7 |
| Lane Util. Factor | | 0.95 | 1.00 | 1.00 | 0.95 | | 0.97 | | 1.00 | | 1.00 | 0.88 |
| Frpb, ped/bikes | | 1.00 | 0.98 | 1.00 | 1.00 | | 1.00 | | 1.00 | | 1.00 | 0.99 |
| Flpb, ped/bikes | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | | 1.00 | | 1.00 | 1.00 |
| Frt | | 1.00 | 0.85 | 1.00 | 1.00 | | 1.00 | | 0.85 | | 1.00 | 0.85 |
| Flt Protected | | 1.00 | 1.00 | 0.95 | 1.00 | | 0.95 | | 1.00 | | 0.99 | 1.00 |
| Satd. Flow (prot) | | 3539 | 1565 | 1770 | 3574 | | 3502 | | 1599 | | 1852 | 2756 |
| Flt Permitted | | 1.00 | 1.00 | 0.95 | 1.00 | | 0.95 | | 1.00 | | 0.99 | 1.00 |
| Satd. Flow (perm) | | 3539 | 1565 | 1770 | 3574 | | 3502 | | 1599 | | 1852 | 2756 |
| Peak-hour factor, PHF | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.91 | 0.95 | 0.95 |
| Adj. Flow (vph) | 0 | 1577 | 161 | 102 | 1451 | 0 | 141 | 0 | 140 | 14 | 57 | 632 |
| RTOR Reduction (vph) | 0 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 123 | 0 | 0 | 79 |
| Lane Group Flow (vph) | 0 | 1577 | 128 | 102 | 1451 | 0 | 141 | 0 | 17 | 0 | 71 | 553 |
| Confl. Peds. (#/hr) | | | | | | | 2 | | | | | 2 |
| Confl. Bikes (#/hr) | | | 2 | | | 1 | | | | | | |
| Heavy Vehicles (%) | 0% | 2% | 1% | 2% | 1% | 0% | 0% | 0% | 1% | 8% | 0% | 2% |
| Turn Type | | NA | Perm | Prot | NA | | Prot | | Perm | Perm | NA | custom |
| Protected Phases | | 6 | | 5 | 2 | | 7 | | | | 8 | 1 |
| Permitted Phases | | | 6 | | | | | | 7 | 8 | | 8 |
| Actuated Green, G (s) | | 55.9 | 55.9 | 5.0 | 49.3 | | 12.2 | | 12.2 | | 10.7 | 22.8 |
| Effective Green, g (s) | | 55.9 | 55.9 | 5.0 | 49.3 | | 12.2 | | 12.2 | | 10.7 | 22.8 |
| Actuated g/C Ratio | | 0.55 | 0.55 | 0.05 | 0.48 | | 0.12 | | 0.12 | | 0.10 | 0.22 |
| Clearance Time (s) | | 5.3 | 5.3 | 4.2 | 5.3 | | 4.6 | | 4.6 | | 4.2 | 3.7 |
| Vehicle Extension (s) | | 3.5 | 3.5 | 3.0 | 3.5 | | 3.0 | | 3.0 | | 3.0 | 1.0 |
| Lane Grp Cap (vph) | | 1937 | 856 | 86 | 1725 | | 418 | | 191 | | 194 | 615 |
| v/s Ratio Prot | | c0.45 | | 0.06 | 0.41 | | c0.04 | | | | | c0.11 |
| v/s Ratio Perm | | | 0.08 | | | | | | 0.01 | | 0.04 | 0.09 |
| v/c Ratio | | 0.81 | 0.15 | 1.19 | 0.84 | | 0.34 | | 0.09 | | 0.37 | 0.90 |
| Uniform Delay, d1 | | 18.9 | 11.4 | 48.5 | 23.0 | | 41.2 | | 40.0 | | 42.5 | 38.5 |
| Progression Factor | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | | 1.00 | | 1.00 | 1.00 |
| Incremental Delay, d2 | | 2.8 | 0.1 | 155.5 | 4.0 | | 0.5 | | 0.2 | | 1.2 | 15.5 |
| Delay (s) | | 21.7 | 11.5 | 204.1 | 27.0 | | 41.7 | | 40.2 | | 43.7 | 54.1 |
| Level of Service | | C | B | F | C | | D | | D | | D | D |
| Approach Delay (s) | | 20.7 | | | 38.6 | | | 41.0 | | | 53.0 | |
| Approach LOS | | C | | | D | | | D | | | D | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 33.9 | HCM 2000 Level of Service | C |
| HCM 2000 Volume to Capacity ratio | 0.80 | | |
| Actuated Cycle Length (s) | 102.1 | Sum of lost time (s) | 18.3 |
| Intersection Capacity Utilization | 74.2% | ICU Level of Service | D |
| Analysis Period (min) | 15 | | |
| c Critical Lane Group | | | |